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







CONSULTANTS, INC

ENVIRONMENTAL MATERIA



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

GEOTECHNICAL

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,

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AERIALLY DEPOSITED LEAD, NATURALLY OCCURRING ASBESTOS, AND LEAD-CONTAINING PAINT SITE INVESTIGATION AND BRIDGE SURVEY REPORT

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[®] resealable 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.

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

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) – asbestoscontaining 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 asbestoscontaining 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.

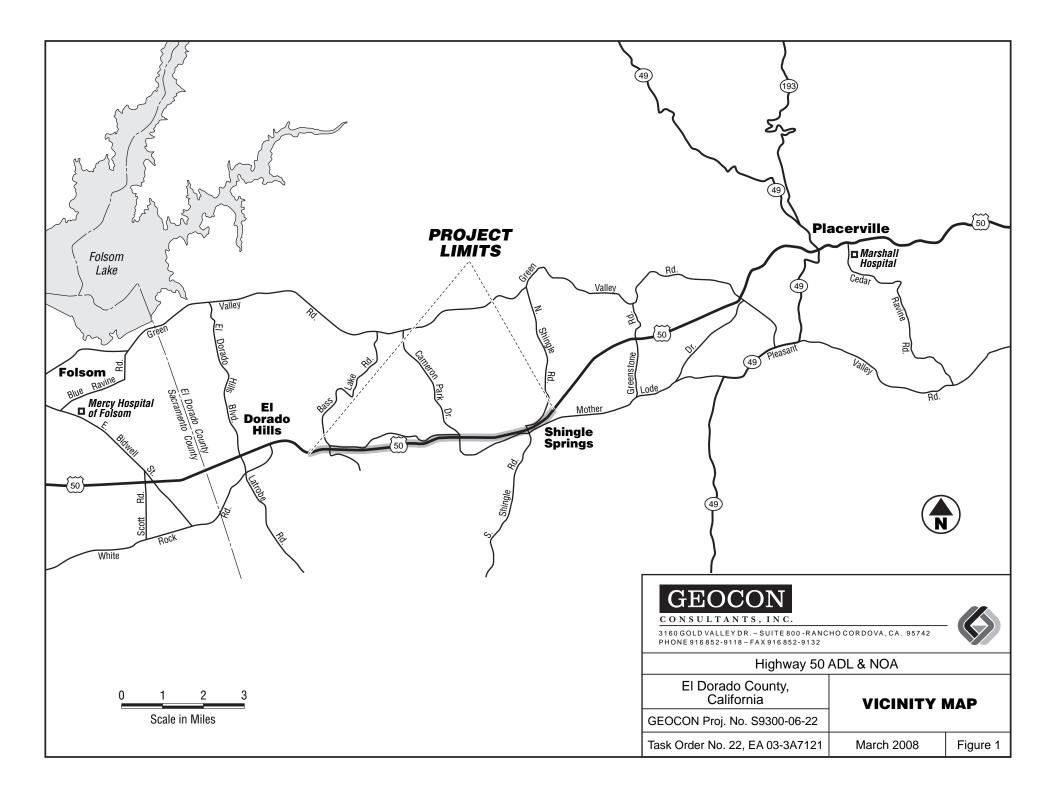
We also recommend the notification of contractors (that will be conducting renovation, demolition, or related activities) of the presence of asbestos in their areas (i.e., provide the contractor[s] with a copy of this report and a list of asbestos removed by asbestos abatement contractor[s] during subsequent 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.

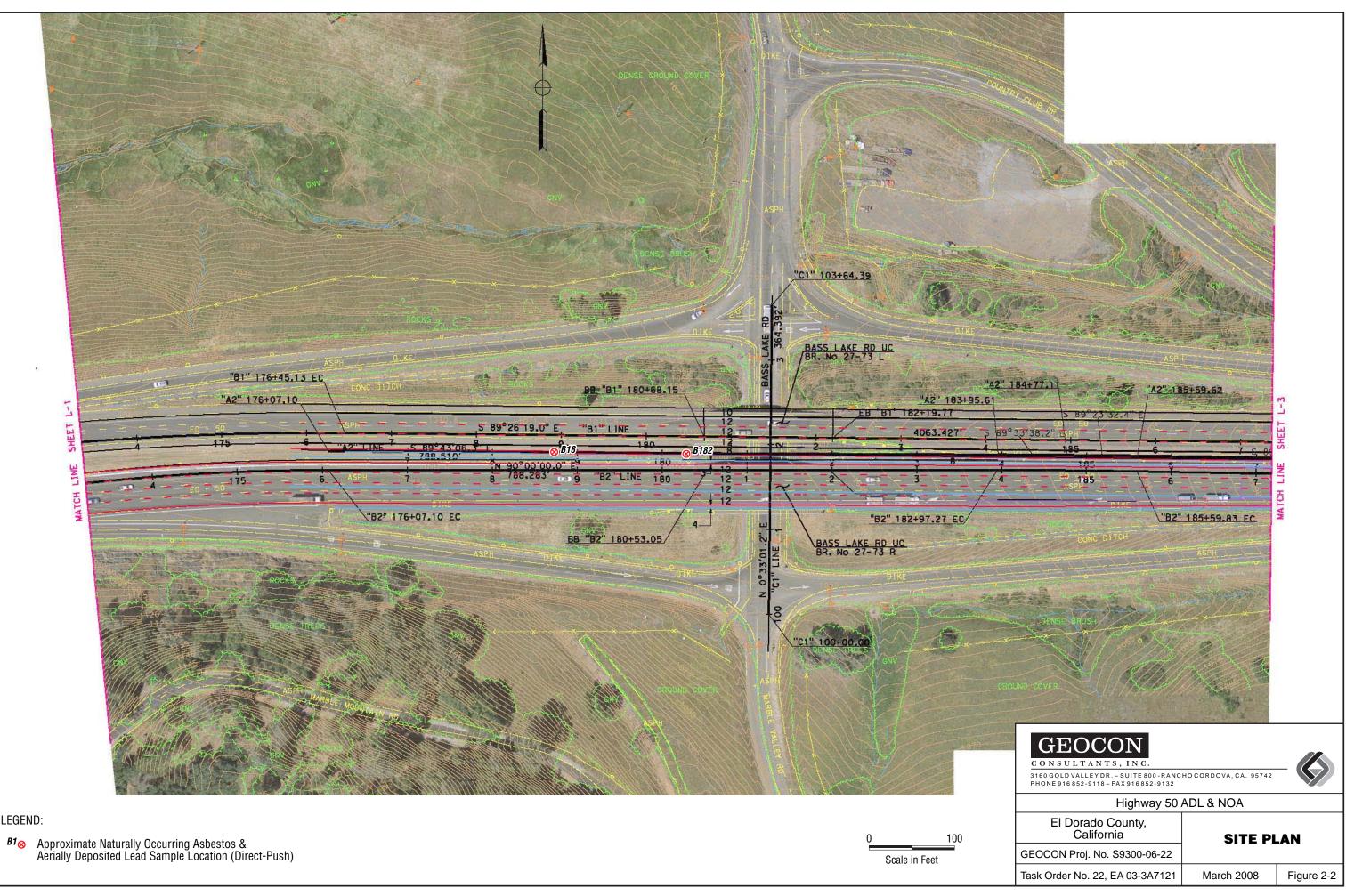
7.0 REPORT LIMITATIONS

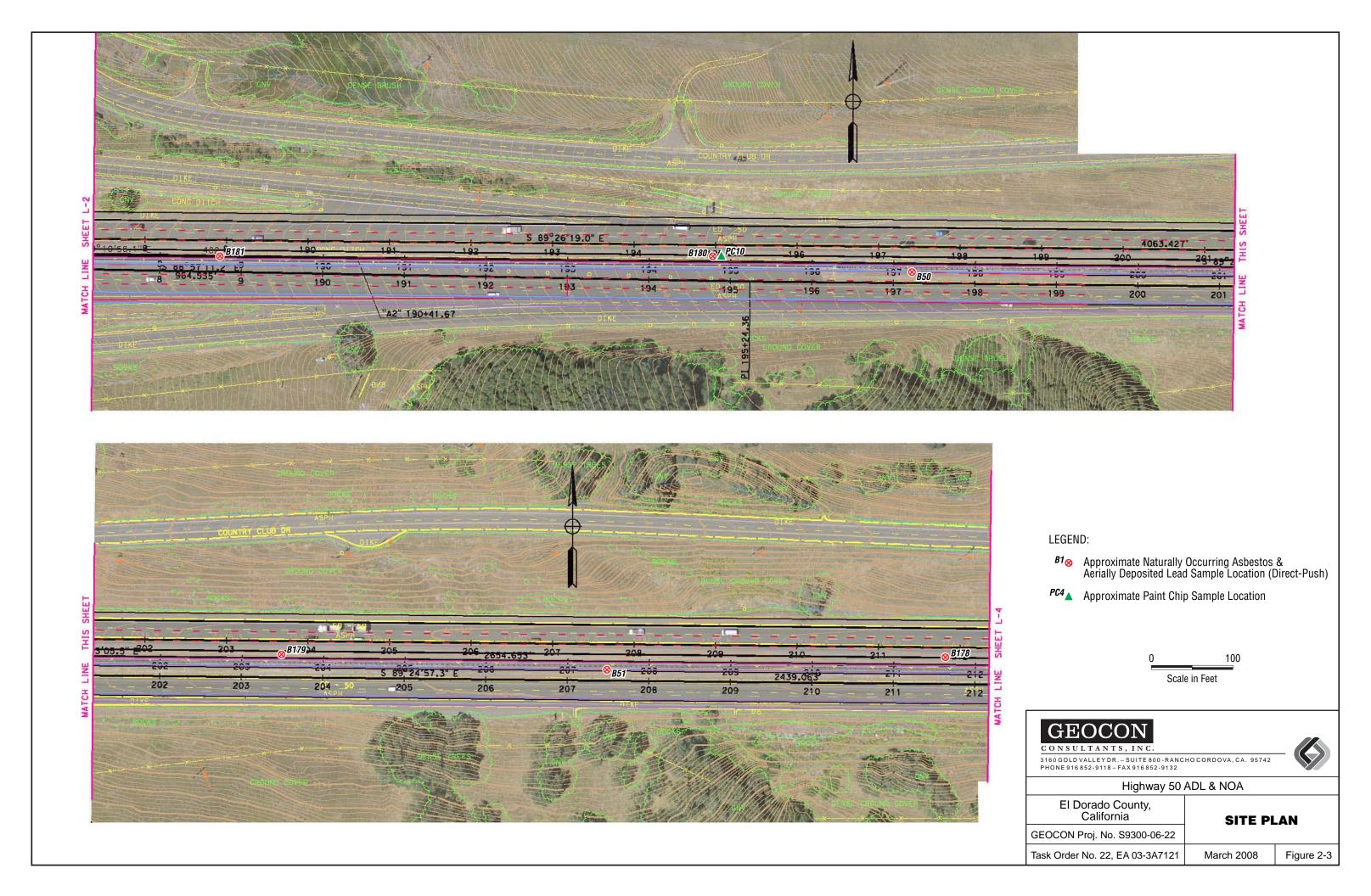
This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

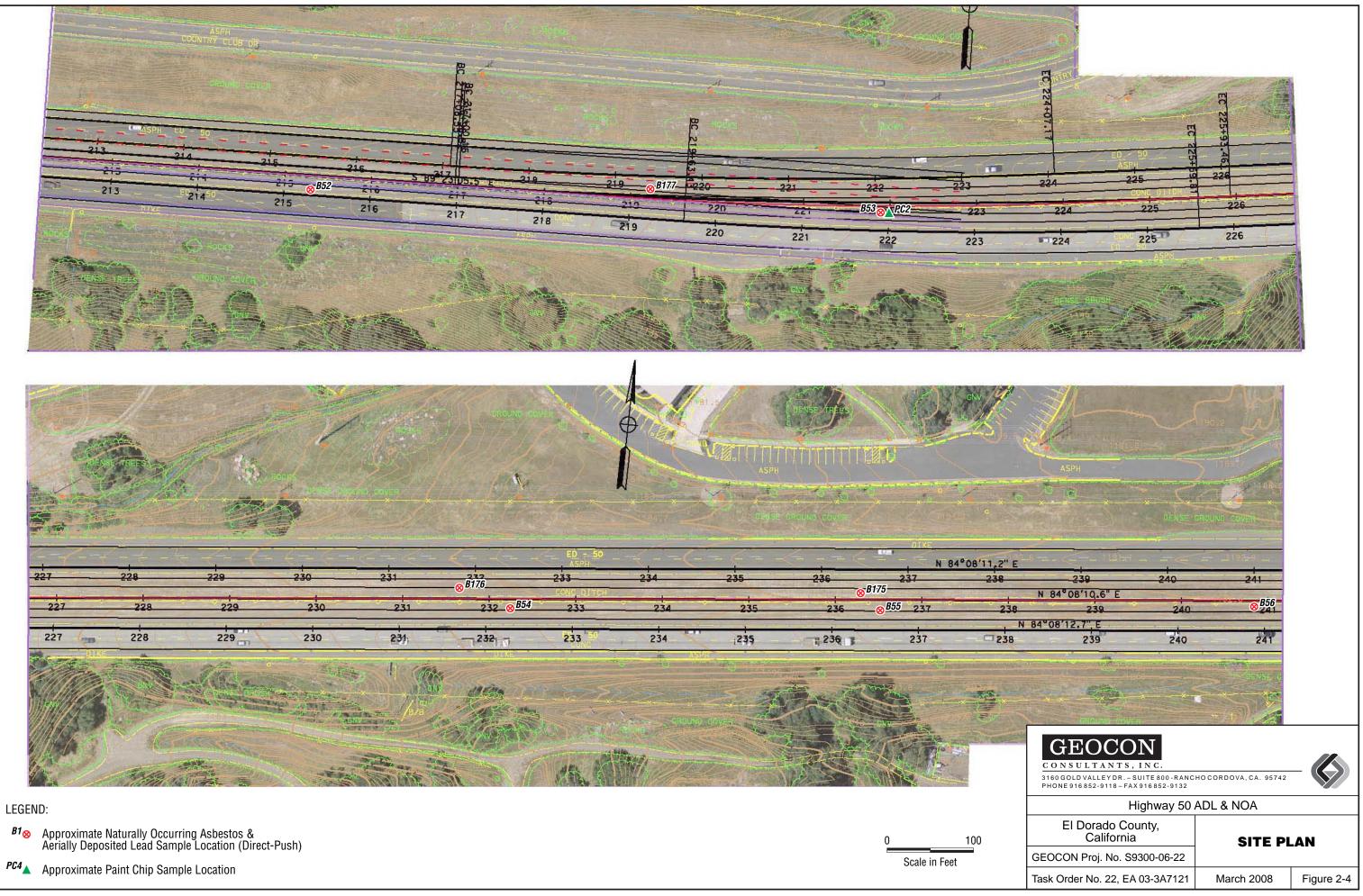
This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts 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.

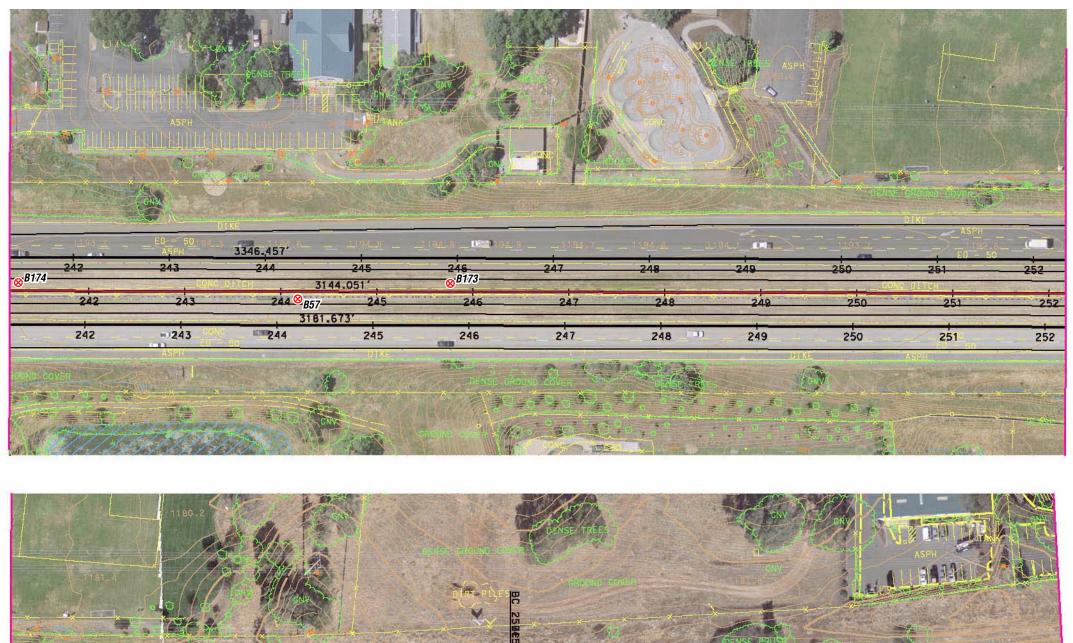










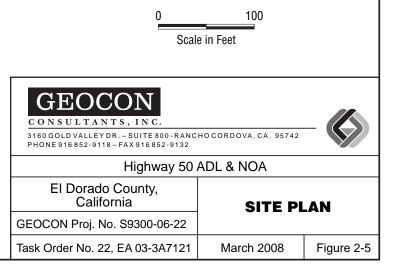


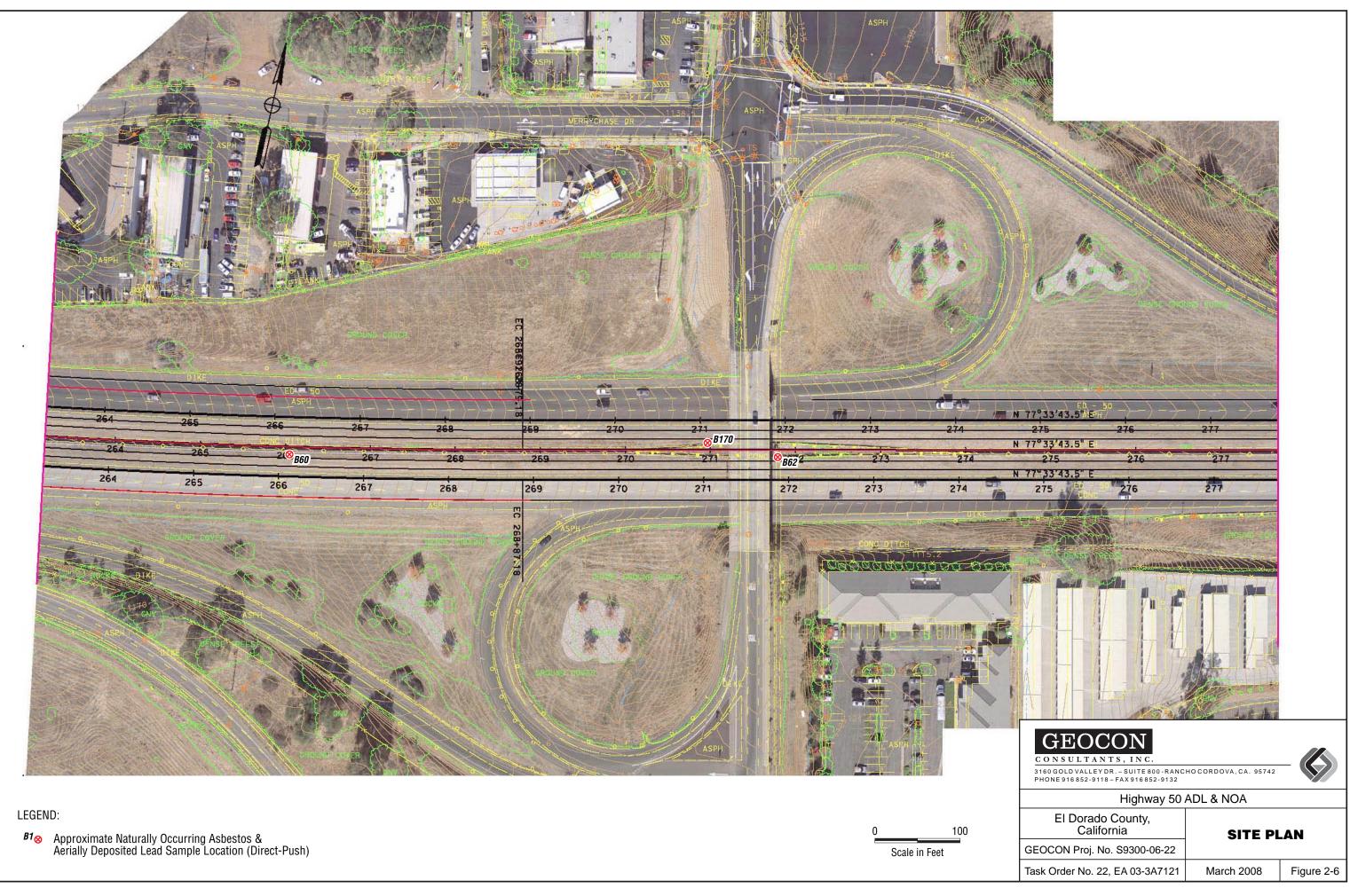


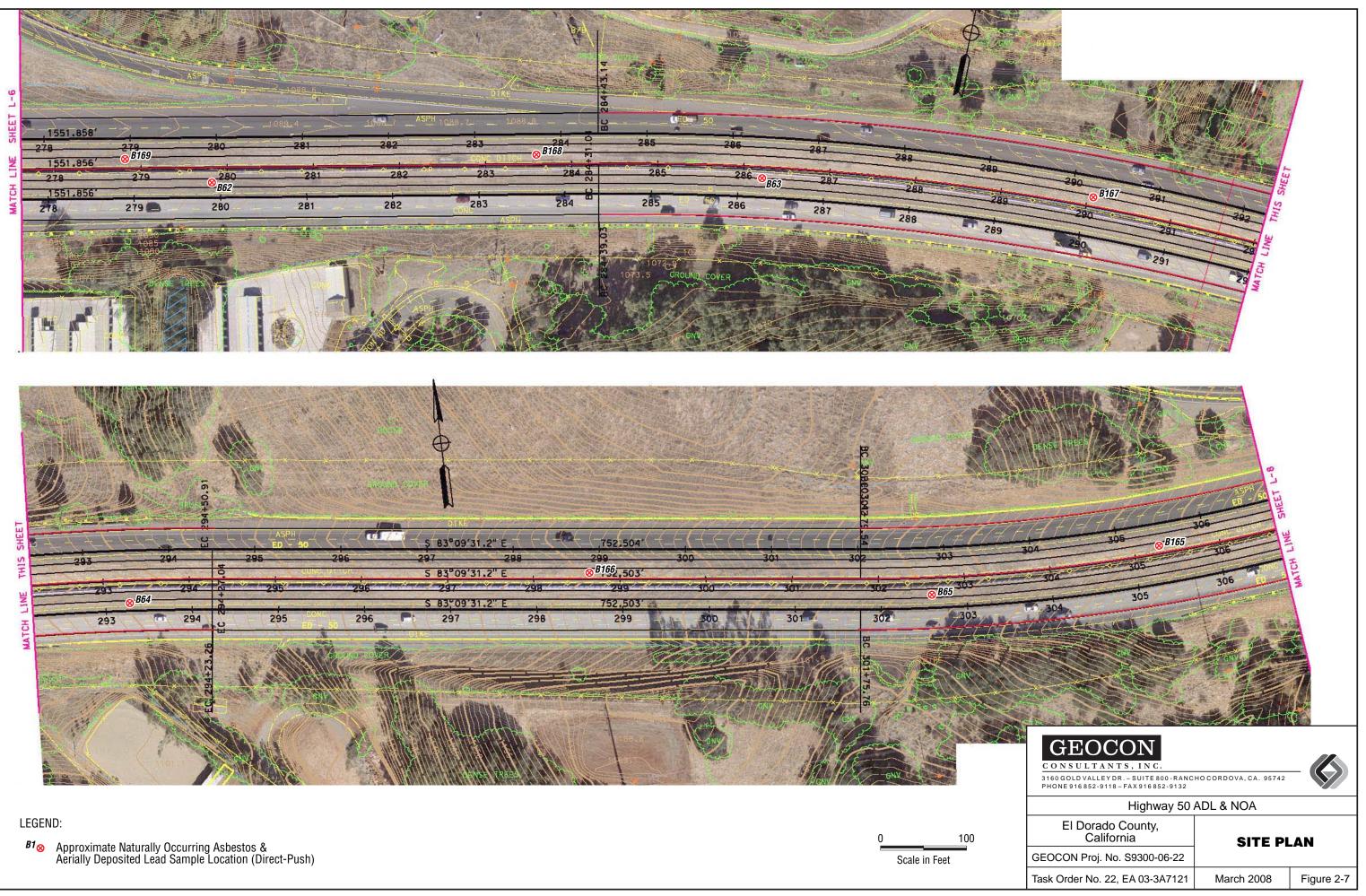


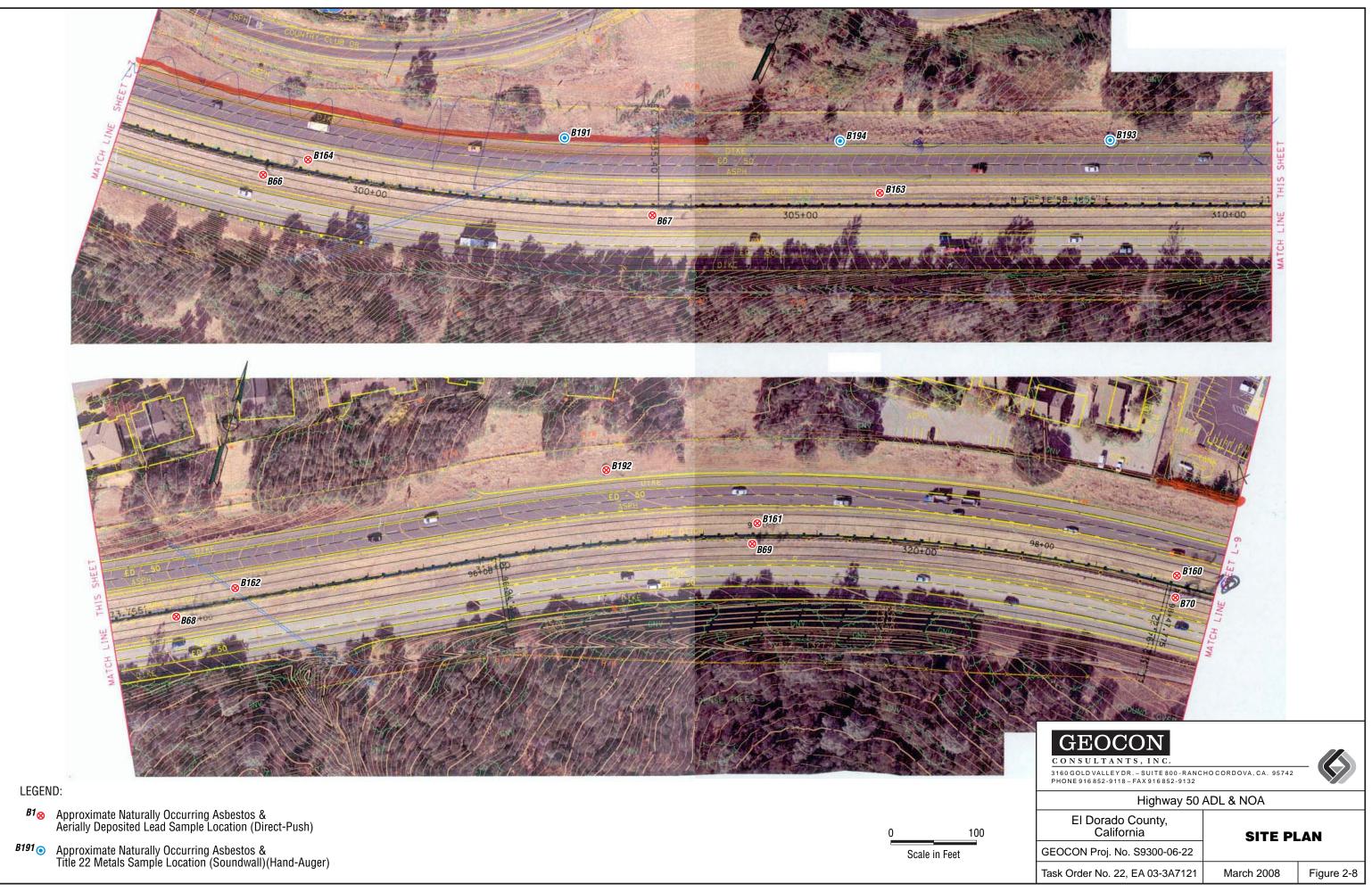
B1⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

PC4 Approximate Paint Chip Sample Location











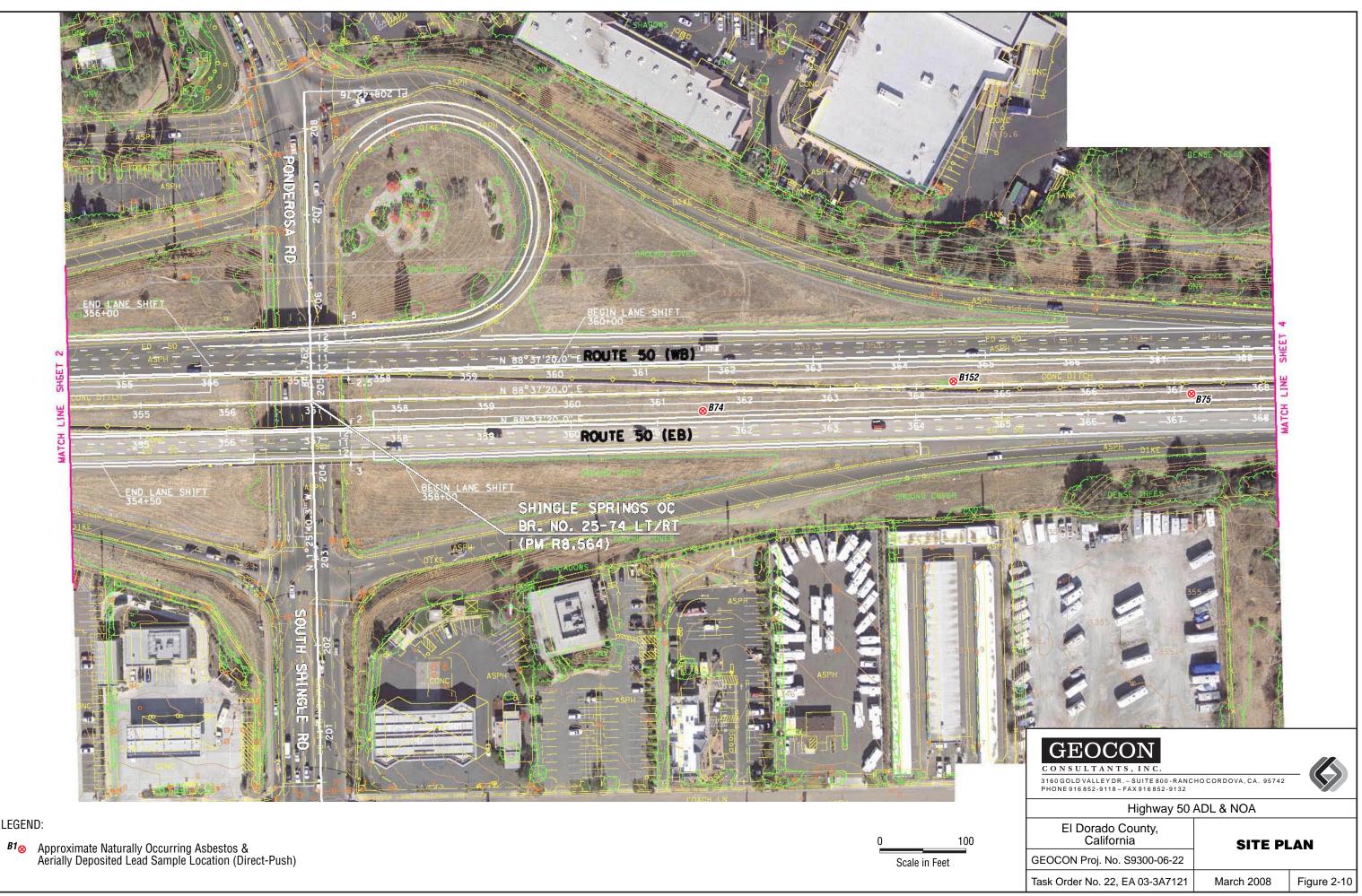
B191 Approximate Naturally Occurring Asbestos & Title 22 Metals Sample Location (Soundwall)(Hand-Auger)

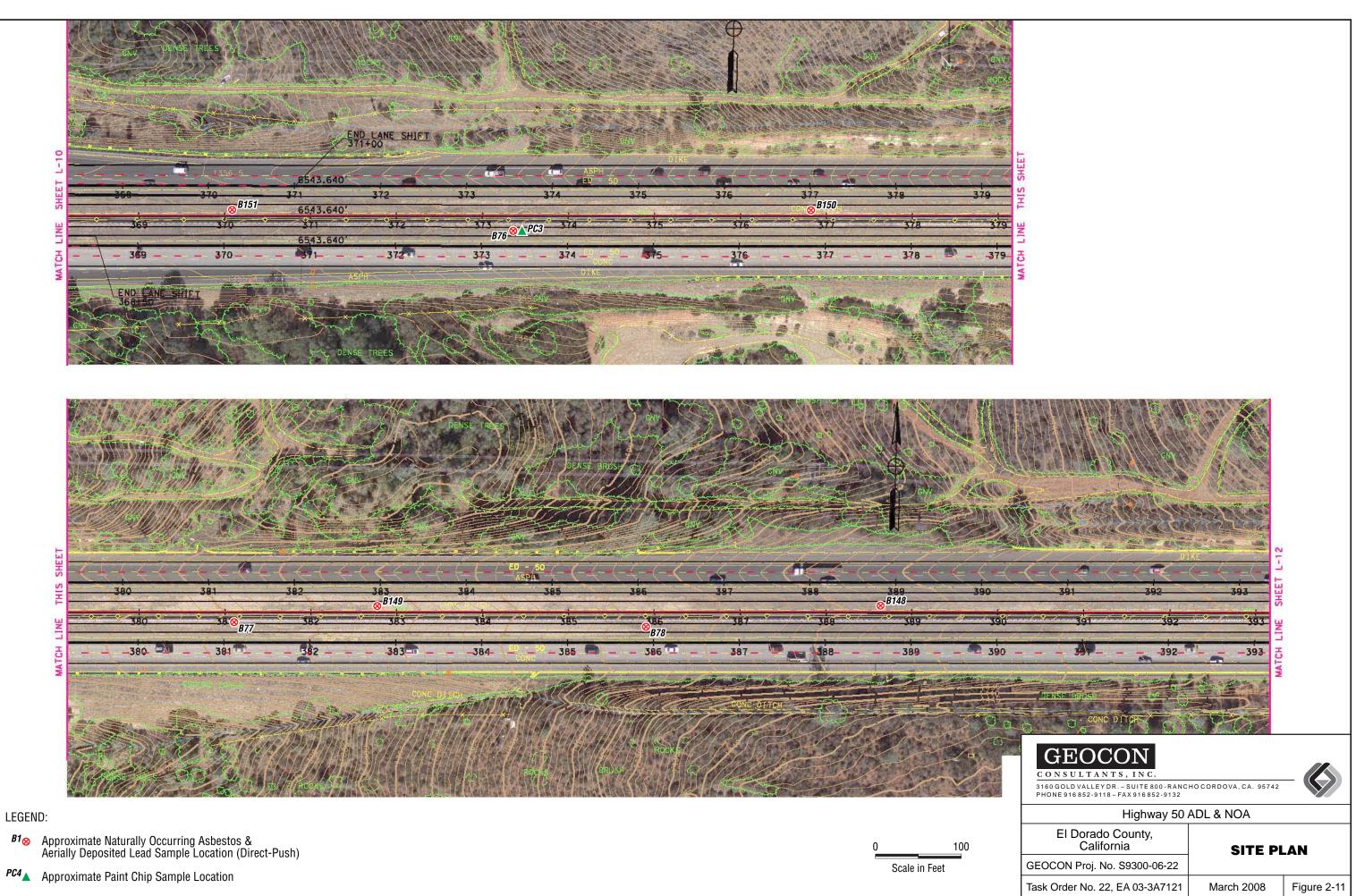
Scale in Feet

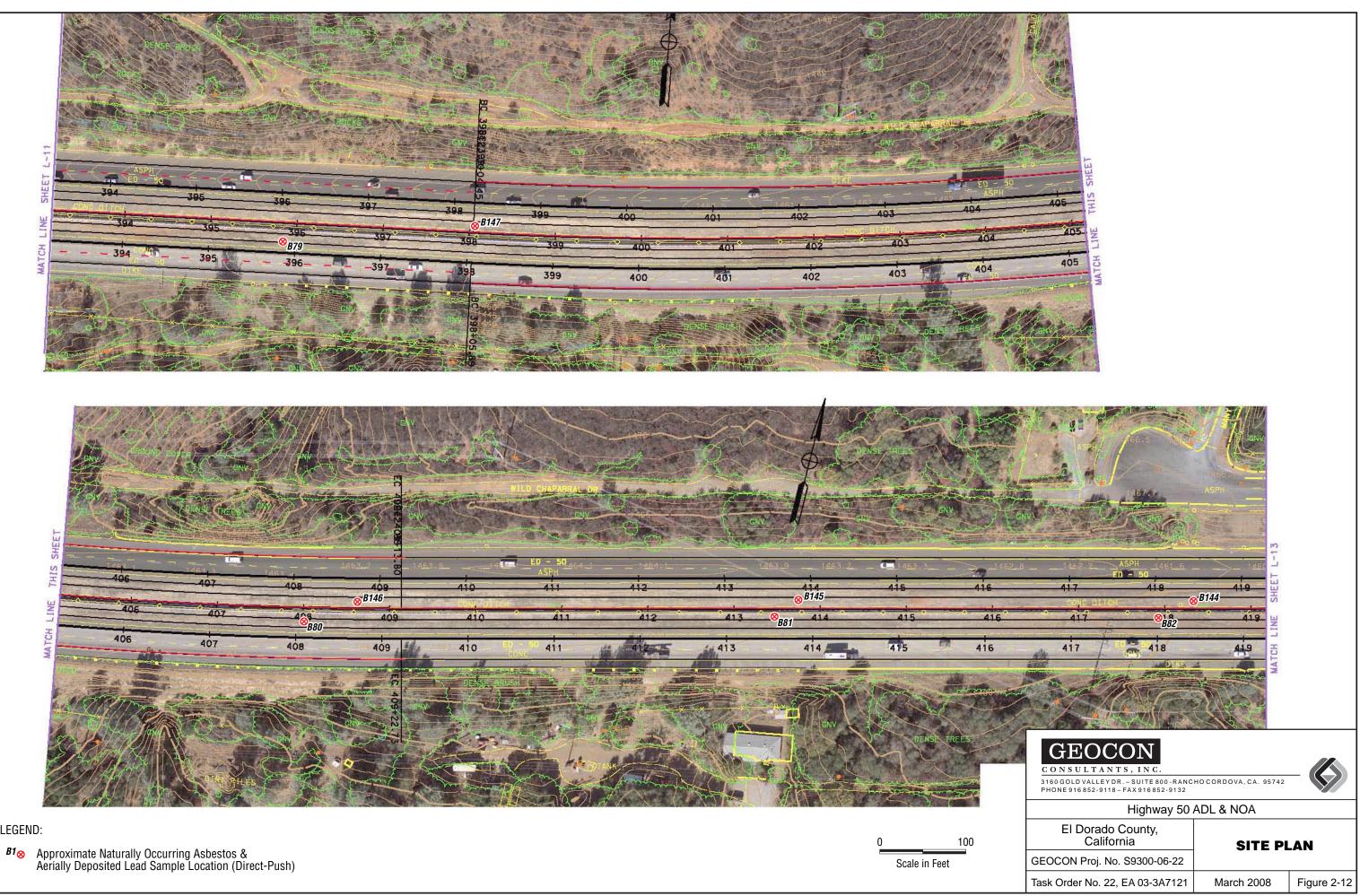
Task Order No. 22, EA 03-3A7121

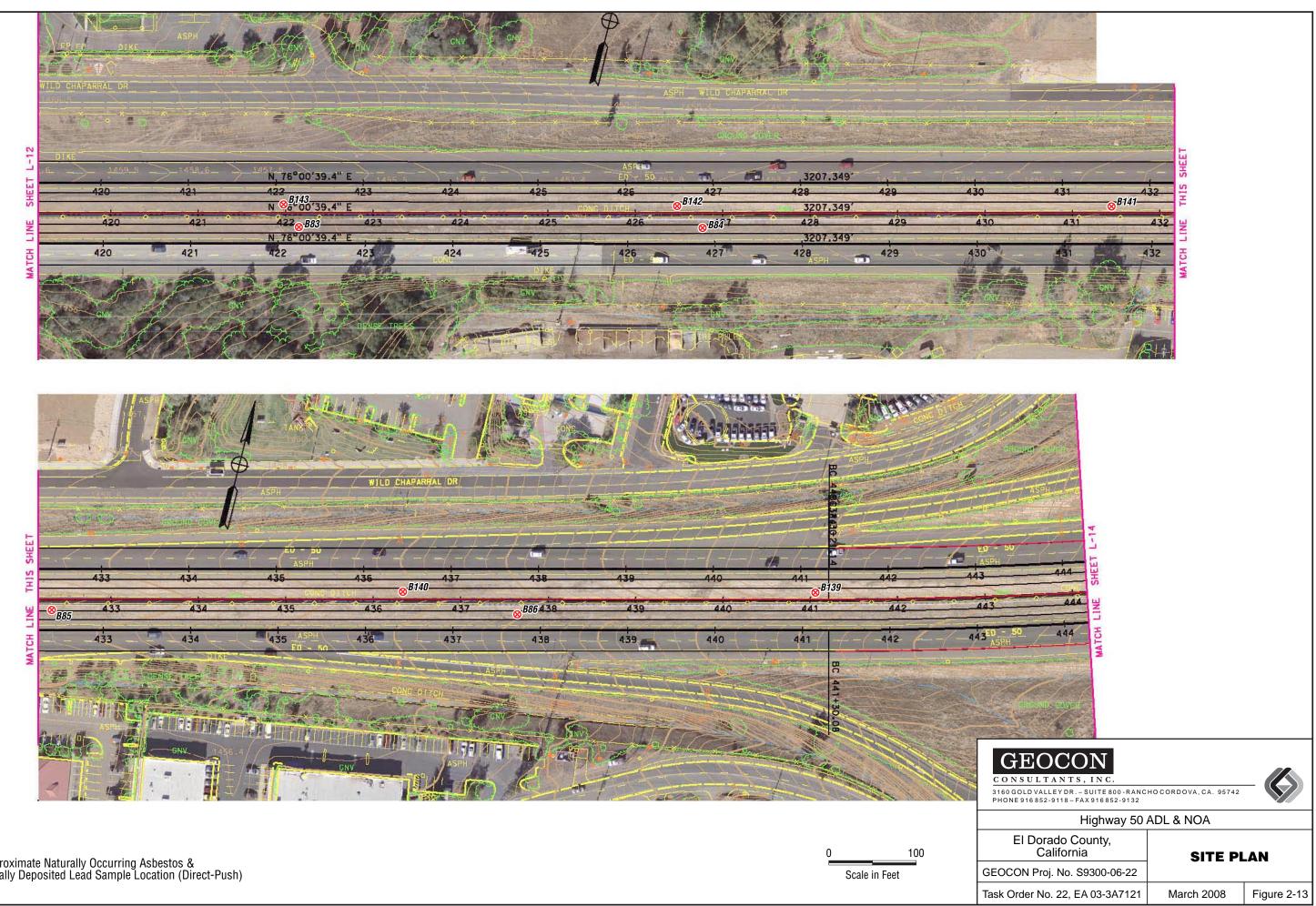
March 2008

Figure 2-9

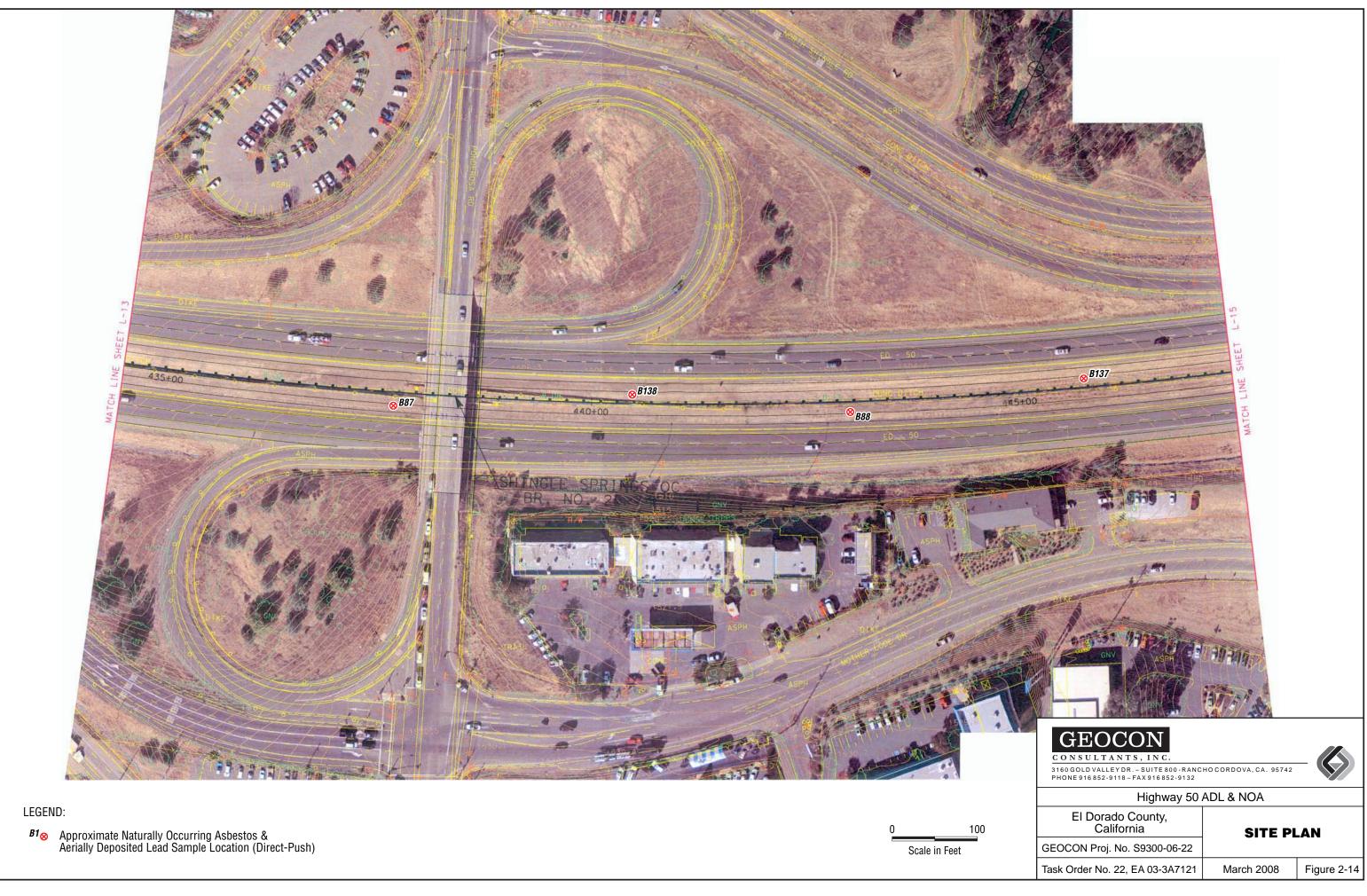








^{B1}⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



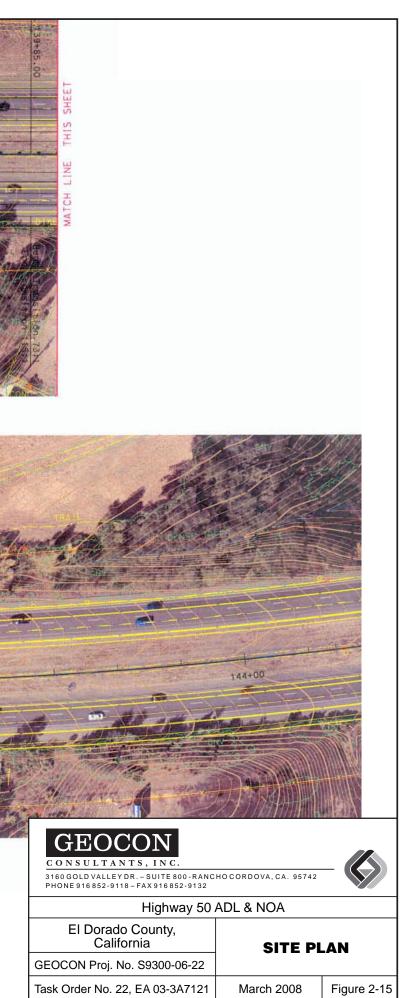




B1⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)

0 100 Scale in Feet

PC4 Approximate Paint Chip Sample Location



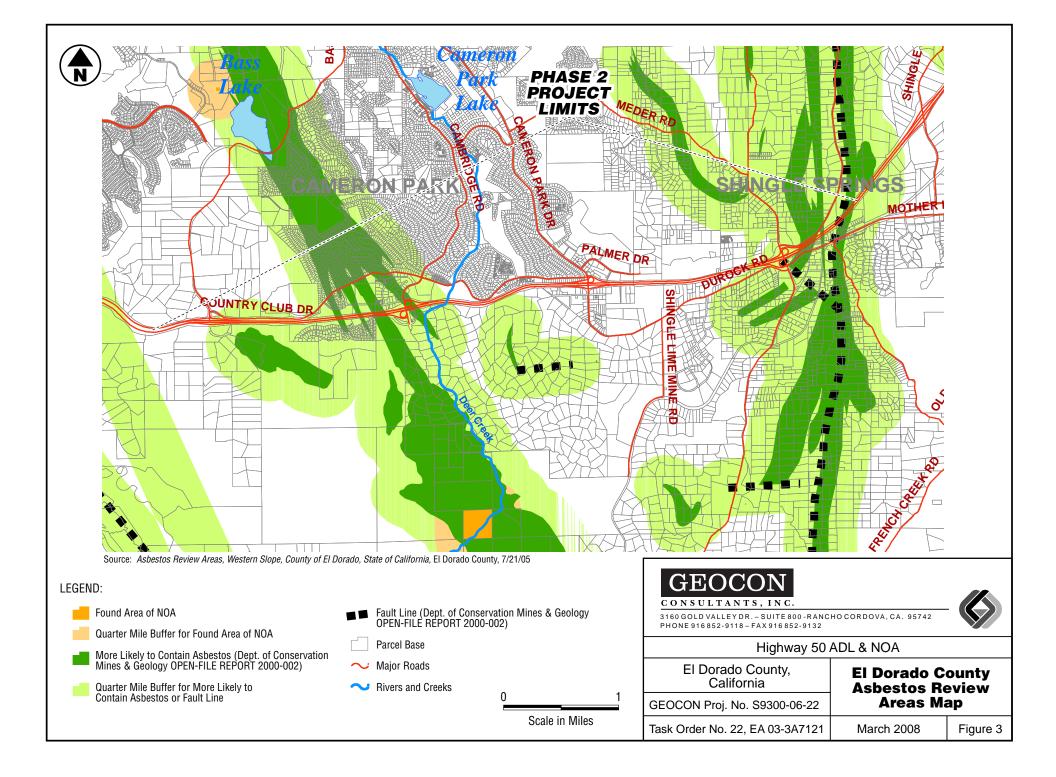


TABLE 1

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 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
B89	38.663991922	-120.934034980
.B90	38.664977728	-120.932166248
B91	38.666041126	-120.930235619
B134	38.666335107	-120,929983617
B134	38.665338118	-120.931776189
B135 B136	38.664366473	-120.933589689
B130	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 B166	38.657188769 38.657399806	-120.987490136 -120.989551131
B166	38.657565927	-120.991866907
B167	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

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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	17 H 17	
B67,69,71,73-0	11/27/2007	19		·
B67,69,71,73-1	11/27/2007	<1		27 4 4
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		

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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		1. 10 Tr
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	205	
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		#75 M
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-I	1/16/2008	1.6	_1_	
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

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

						EL DOR	DORADO COUNTY, CALIFORNIA	JNTY, CA	LIFORNIA									
		Auouinu V	Arzenic	tanina Bariuta	unilly198	Cadmium,	Chronitan	Cobalt	Copper-	рвэд	^{иипиәрд} ло _М	Nickel	nuinələ ²	Silver	muilladT	nuibeneV	Sinc	Mercury
Sample ID	Sample Date								Results F	Results Reported as mg/kg	s 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	4.0>	<0.4	110	36	<0.04
B46,47,48,49-1	11/27/2007	4.0≻	0.6	60	<0.4	<0.4	20	27	92	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	6.0	<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	19	<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	86	9.9	<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	4.0>	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)	(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:		B46,47,4	8,49-0 - Co borin <u>ę</u>	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	nple identi , B48, and	fication co B49 at 0.0	a consisting of 0.0 ft depth	discrete so	il samples	collected f	īom							
		mg/kg = 1	Milligrams	mg/kg = Milligrams per kilogram	m The second se		4							÷				

<= 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

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	8	UMMAKY UF ASBESI CALTRANS TA HIGHWAY 50 PC EL DORADO CC	SUMMARY OF ASBESTOS ANALY IICAL KESULIS 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	CN .	QN
NOA 2	NOA18-2, NOA20-2, NOA181-2, NOA182- 2	COMPOSITE	PLM	QN	QN
NOA 3	NOA50-0, NOA51-0, NOA52-0, NOA177-0, NOA178-0, NOA179-0, NOA180-0	COMPOSITE	MJ	UN .	Ш
NOA 4	NOA50-2, NOA51-2, NOA52-2, NOA171-2, NOA178-2, NOA179-2, NOA180-2	COMPOSITE	PLM	QN	QN
NOA 5	NOA53-0, NOA54-0, NOA55-0, NOA56-0, NOA174-0, NOA175-0, NOA176- 0	COMPOSITE	PLM	QN	ÛN
9 NOA 6	NOA55-2, NOA176-2	COMPOSITE	PLM	Q	- UN
NOA 7	NOA57-0, NOA58-0, NOA59-0, NOA60-0, NOA170-0, NOA171- 0, NOA172-0	ROCK CHIP	MLIA	QN	<u>A</u>
NOA8	NOA57-2, NOA58-2, NOA170-2, NOA171- 2, NOA172-2, NOA173-2	COMPOSITE	PLM	QN	QN

Project No. S9300-06-22 March 27, 2008 Page 2 of 4

	S	TAB MMARY OF ASBESTO CALTRANS TAS HIGHWAY 50 POST EL DORADO COU	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	Q	Q
01A00	NOA62-2, NOA63-2, NOA64-2, NOA167-2, NOA168-2, NOA169-2	COMPOSITE	PLM	Q	Q
NOA11	NOA65-0, NOA66-0, NOA67-0, NOA68-0, NOA162-0, NOA163-0, NOA164-0, NOA165-0, NOA166-0	COMPOSITE	PLM	Q	Q
NOA12	NOA66-2, NOA67-2, NOA68-2, NOA162-2, NOA163-2, NOA164-2, NOA165-2, NOA166-2	COMPOSITE	РLМ	CIN	Ð
NOA13	NOA69-0, NOA70-0, NOA71-0, NOA72-0, NOA154-0, NOA155-0, NOA160-0, NOA161-0	COMPOSITE	PLM	QN	CN CN
NOA14	NOA69-2, NOA70-2, NOA71-2, NOA72-2, NOA154-2, NOA155-2, NOA161-2	COMPOSITE	PLM	QN	Q
NOAIS	NOA73-0, NOA74-0, NOA75-0, NOA76-0, NOA151-0, NOA152-0, NOA153- 0	COMPOSITE	PLM	QN	QN
NOAI6	NOA73-2, NOA74-2, NOA75-2, NOA76-2, NOA151-2, NOA153-2	COMPOSITE	PLM	Q	Q

Project No. S9300-06-22 March 27, 2008 Page 3 of 4

	σ	TA SUMMARY OF ASBEST CALTRANS TA HIGHWAY 50 PO. EL DORADO CO	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	QN	QN
NOA18	NOA77-2, NOA78-2, NOA79-2, NOA80-2, NOA147-2, NOA148-2, NOA149-2, NOA150-2	COMPOSITE	FLM	QN	QN
61AON	NOA81-0, NOA82-0, NOA83-0, NOA84-0, NOA142-0, NOA143-0, NOA144-0, NOA146-0	COMPOSITE	PLM	QN	QN
NOA20	NOA81-2, NOA82-2, NOA83-2, NOA84-2, NOA142-2, NOA143-2, NOA144-2, NOA146-2	COMPOSITE	PLM	QN	QN
NOA21	NOA85-0, NOA86-0, NOA87-0, NOA88-0, NOA138-0, NOA139-0, NOA140-0, NOA141-0	COMPOSITE	RLM	QN	QN
NOA22	NOA85-2, NOA86-2, NOA87-2, NOA88-2, NOA138-0, NOA139-2, NOA140-2, NOA141-2	COMPOSITE	FLM	QN	Q
NOA23	NOA89-0, NOA90-0, NOA91-0, NOA134-0, NOA135-0, NOA136-0, NOA137-0	COMPOSITE	PLM	QN	QN
NOA24	NOA89-2, NOA91-2, NOA134-2, NOA136- 2, NOA137-2	COMPOSITE	PLM	<0.25%	CHRYSOTILE

Project No. S9300-06-22 March 27, 2008 Page 4 of 4

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· · · · · · · · · · · · · · · · · · ·		T ^A SUMMARY OF ASBEST CALTRANS TA HIGHWAY 50 PO EL DORADO CO	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	QN	Q
NOA26	NOA46-2, NOA47-2, NOA48-2, NOA49-2	COMPOSITE	PLM	QN	QN
NOA27	NOA187-0, NOA188-0, NOA189-0, NOA190-0	COMPOSITE	PLM	QN	Q
NOA28	NOA187-2, NOA188-2, NOA189-2, NOA190-2	COMPOSITE	FLM	GN	Q
NOA29	NOA191-0, NOA192-0, NOA193- 0,NOA194-0	COMPOSITE	PLM	QN	Q
NOA30	NOA191-2, NOA192-2, NOA193- 2,NOA194-2	COMPOSITE	PLM	QN	Q
NOA 183	West of Bass Lake Road	ROCK CHIP	PLM	CIN .	CN N

Notes:

PLM = Polarized Light Microscopy

ND = None Detected

<0.25 = Less than the laboratory method reporting limit

SUMMARY OF	CALTRANS T HIGHWAY 50 P	PLE ANALYTICAL RESULTS - LE FASK ORDER NO. 22 POST MILE 2.90 TO 8.79 POUNTY, CALIFORNIA	AD AND CHROMIUM
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

1,000

510

230

120

TABLE 5

Notes:

PC9

PC10

PC 2 = Yellow traffic stripe paint sample identification

mg/kg = Milligrams per kilogram

1/15/2008

1/16/2008

APPENDIX



EOTECHNICAL BENVIRONMENTAL MATERIAL

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

NTS, INC

Subject:

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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.

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

TABLE 1SUMMARY OF ACM DATA

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.

atillen C. Hem

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

Reviewed by:

Gohn B. Juhrend, PE, CEG

Project Manager

JEJ:sd

(5) Addressee

(1) HB&T, Mr. Tim Hoppe

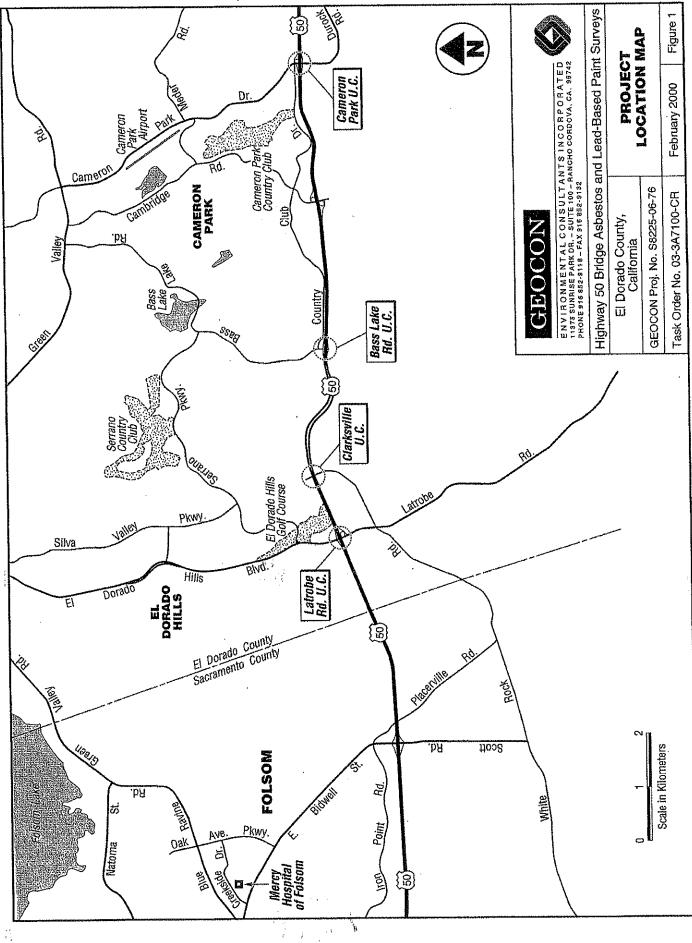
Attachments: Figure 1, Project Location Map Figure 2, Latrobe Road UC Site Plan Figure 3, Clarksville Road UC Site Plan Figure 4, Bass Lake Road UC Site Plan Figure 5, Cameron Park UC Site Plan Table 1, Summary of Asbestos Analytical Data Laboratory Test Results and Chain of Custody

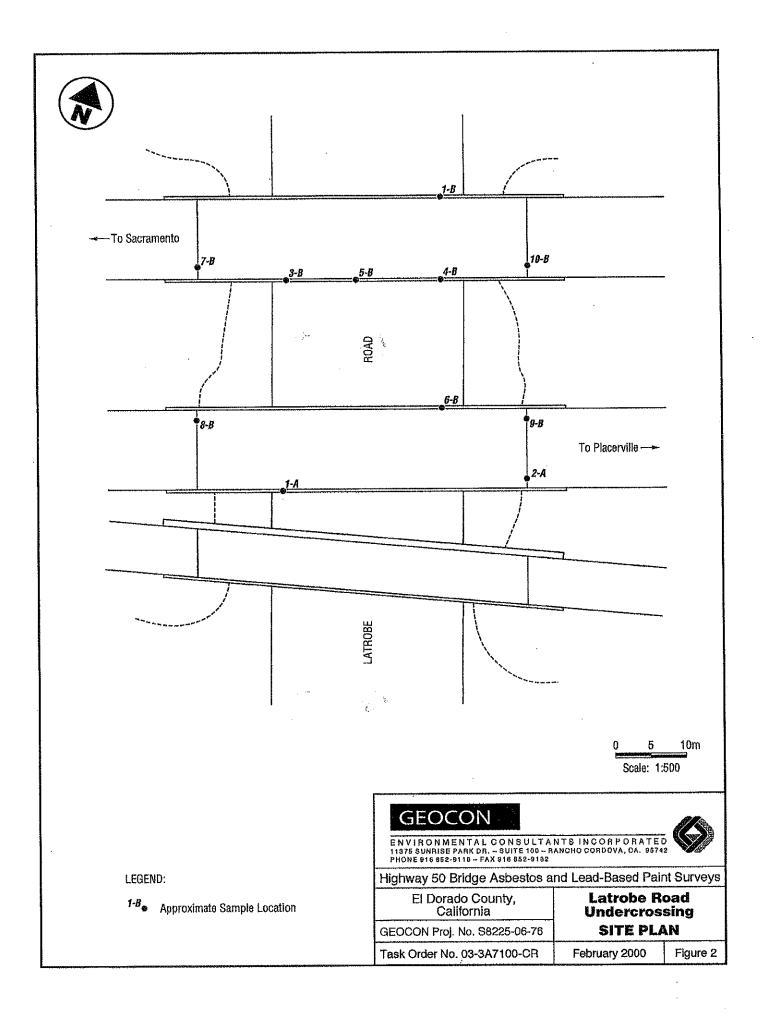
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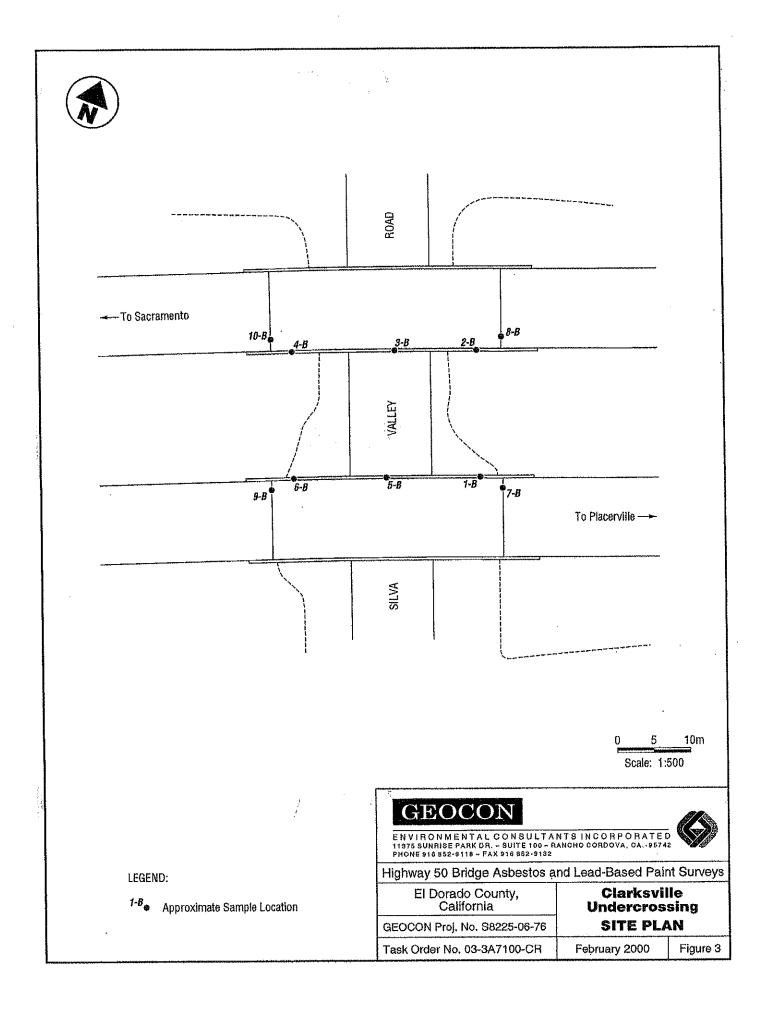
Project Engineer

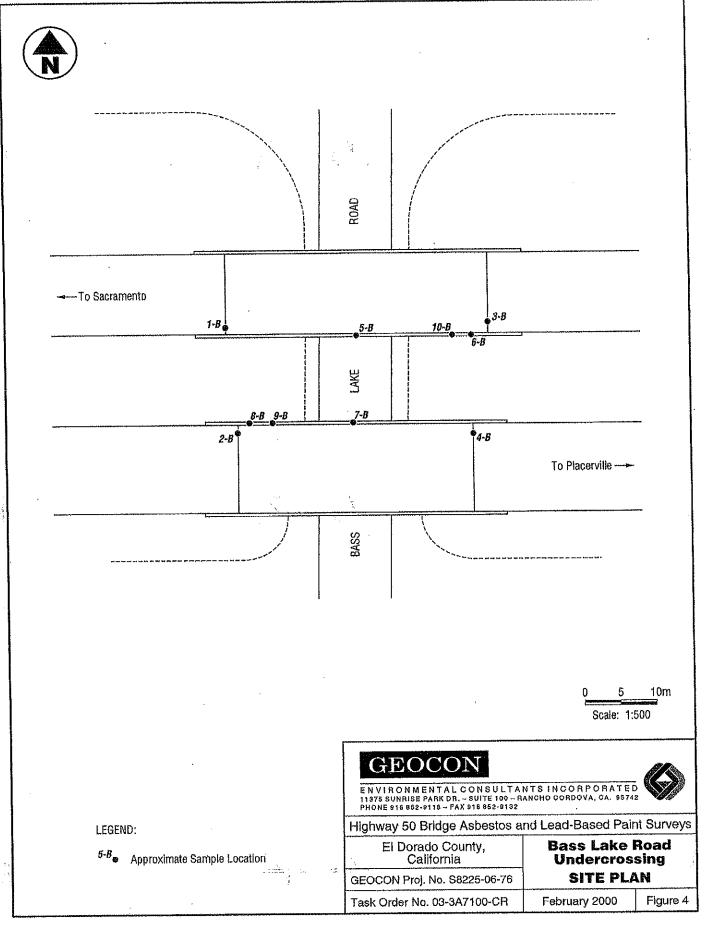


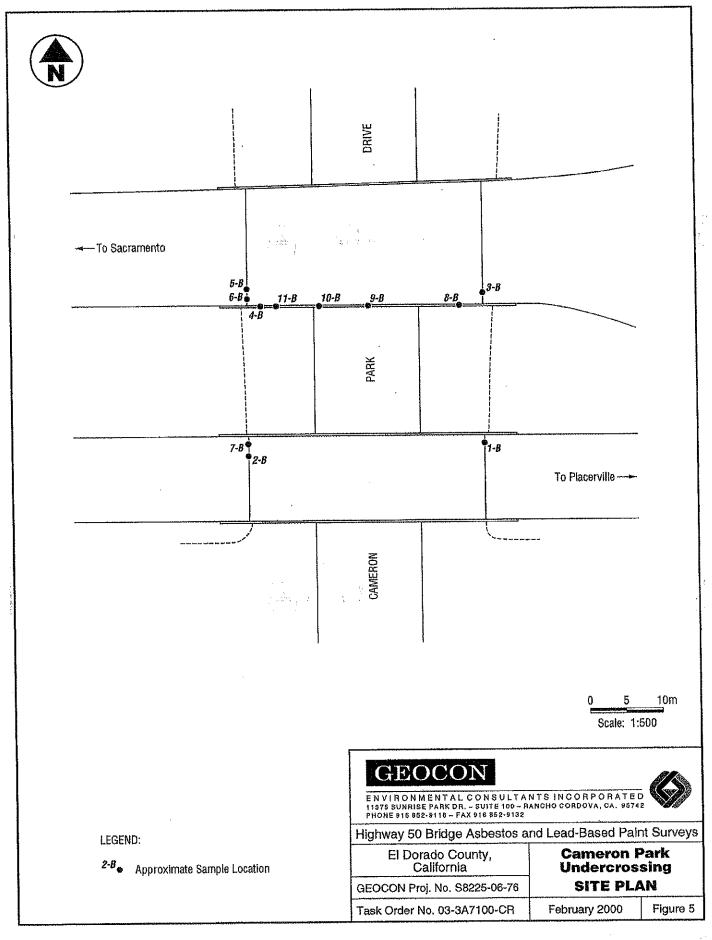
Project No. S8225-06-76











Project No. S8225-06-76 February 3, 2000 Page 1 of 2

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

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A STRUCTURE LATROBE RD. UC LATROBE RD. UC CLARKSVILLE RD. UC BASS LAKE RD. UC			EL DORADO COUNIY, CALIFURINA			
STRUCTURE SAMPLE LOCATION LATROBE RD. UC S.W. GUARDRALL, NORTH BRUCE LATROBE RD. UC S.W. GUARDRALL, NORTH BRUCE LATROBE RD. UC LATROBE RD. UC S.W. GUARDRALL, NORTH BRUCE LATROBE RD. UC S.W. GUARDRALL, NORTH BRUCE LATROBE RD. UC LATROBE RD. UC S.W. GUARDRALL, NORTH BRUCE LATROBE RD. UC S.W. GUARDRALL, NORTH BRUCE LATROBE RD. UC LATROBE RD. UC WEST PRU, WESTBOUND SIDE, INSIDE LATROBE RD. UC EAST END, WESTBOUND SIDE, INSIDE LATROBE RD. UC LATROBE RD. UC EAST END, WESTBOUND SIDE, INSIDE LATROBE RD. UC EAST END, WESTBOUND SIDE, INSIDE LATROBE RD. UC LATROBE RD. UC EAST END, WESTBOUND SIDE, INSIDE LATROBE RD. UC EAST END, WESTBOUND SIDE, INSIDE CLARKSVILLE RD. UC LARKSVILLE RD. UC EAST END, WESTBOUND SIDE, INSIDE CLARKSVILLE RD. UC EAST END, WESTBOUND SIDE, INSIDE CLARKSVILLE RD. UC CLARKSVILLE RD. UC EAST END, WESTBOUND SIDE, INSIDE CLARKSVILLE RD. UC EAST END, WESTBOUND SIDE, INSIDE CLARKSVILLE RD. UC CLARKSVILLE RD. UC EAST END, WESTBOUND SIDE, INSIDE CLARKSVILLE RD. UC EAST END, WESTBOUND SIDE, INSIDE CLARKSVILLE RD. UC BASI LAKE RD. UC EAST END, WESTBOUND SIDE, INSIDE WEST END,					ASBESTOS	
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BASS LAKE RD. UC MIDDLE, WESTBOUND SIDE INSIDE	4-8	BASS LAKE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	E C	
CT C	29	BASS LAKE RD. UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	5 6	
BASS LAKE KD. UC EAST END, WESTBOUND SUPPLY	4	BASS LAKE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GKAT	01	

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Project No. S8225-06-76 February 3, 2000 Page 2 of 2

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TABLE 1 SUMMARY OF ASBESTOS ANALYTICAL DATA HIGHWAY 50 BRIDGE SITES

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SAMPLE LD.	STRUCTURE	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS (%)
7_R	BASS LAKE RD. UC	MIDDLE, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
ц 2 2	BASS LAKE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
a	BASS LAKE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	20
IO-B	BASS LAKE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
ц,	CAMERON PARK UC	EAST END, EASTBOUND, SIDE, INSIDE	BROWN JOINT FILLER	QN
р Д	CALLER CAMERON PARK UC	UNDER BRIDGE @ ABUTMENT, WEST END, E.B.	GRAY SHEET PACKING	70
	CAMERON PARK LIC	EAST END. WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	Q
84		WEST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY "UPPER"	
a a	CAMERON PARK UC	UNDER BRIDGE @ ABUTMENT, WEST END, W.B.	GRAY SHEET PACKING	- 10
a de la companya de l La companya de la comp	CAMERON PARK UC	WEST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	Q
а. С		WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	Q
0	CAMPRON PARK LIC	EAST END. WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	о 7 – 70
200	CAMFRON PARK UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	02
E La	CAMERON PARK UC	MIDDLE WEST, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	20
a-11	CAMPRON PARK LIC	WEST END. WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	02



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

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

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

Polarized Light Microscopy Asbestos Analysis Report

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

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 Im''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	homoģeneous	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	
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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 FJ. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report shall not be reproduced except in full, without the written approval of the laboratory.



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

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

Polarized Light Microscopy Asbestos Analysis Report

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

Project: El Dorado County, CA Project Location: Cameron Park U.C. Project No.: 3215,99

QuanTEM Sample ID	Client Sample ID	Composition	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 raii 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	

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Reviewed and Approved

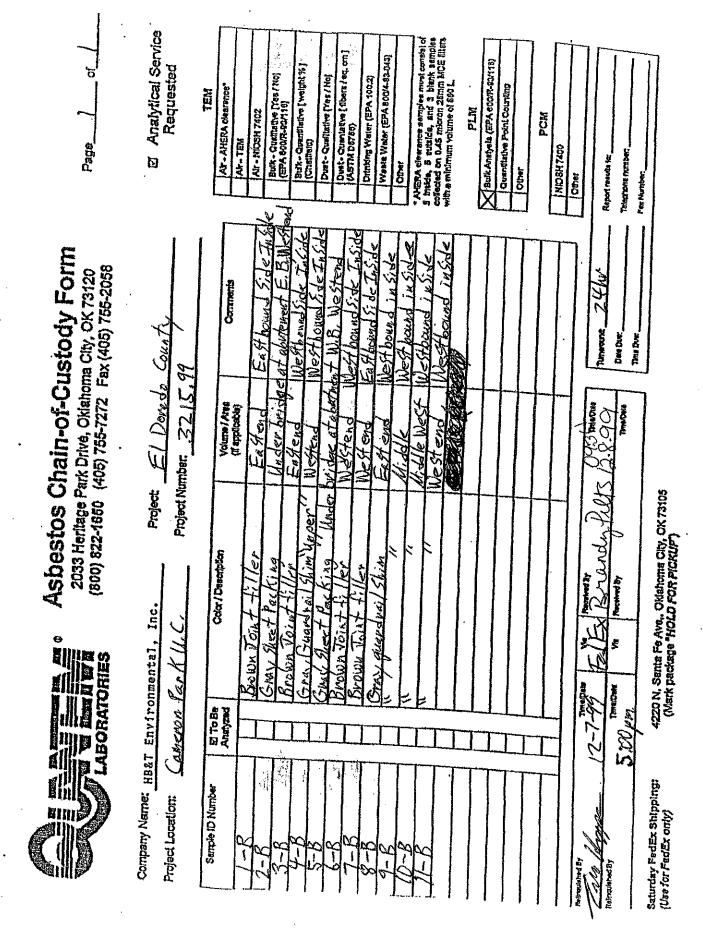
December 8, 1999

Date

Note: Structures denoted as being "<5µ" refer to the structures whose length is from 0.5µm to 4.9µm. GuanTEM 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. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

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

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

Polarized Light Microscopy Asbestos Analysis Report

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

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

uanTEM ample 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	esbestos 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 chrysofile 70%	N/A	
9	9-B	homogeneous	gray guard rail shim,W-end,E-bd inside	asbestos present chrysotile 70%	N/A	
	allen	c/e h			December 8, 1999	

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Note: Structures denoted as being *<6µ" 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. This report shall not be reproduced except in full, without the written approval of the laboratory.



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

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

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

Polarized Light Microscopy Asbestos Analysis Report

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

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	

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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 inboratory (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. This report shall not be reproduced except in tull, without the written approval of the laboratory.

I Analytical Service "AHERA clemence samplee musi consist of B makte, B sutaide, and S blank samples consided on 0.45 miloron 2.5mm MCE filters with a milnimum volume of 660 L Duet-Quentetive (Ibera / sq. cm) (ASTM D6785) Weste Weter (EPA BOOK-83-043) ABulk Anthela (EPA coort-23718) Requested Buth-Quantitative [weight %] (Chatheis) But + Quatante (Yes / No) Dust-Qualitative (Yes / No) Drinking Water (EPA 100.2) Quantizitya Point Counting Ar - AHERA dearance TEN PLUM AIT - NICSH 7402 POW A- 1EM Page NIDSH7400 Telephone mumber, Report results for No. Par Number Other Other 4. Side 14 21 in Sids فلكتكله inside Shilde 25.2 × くちょう insile iusist エズ 2033 Heritage Park Drive, Oklahoma City, OK 73120 (800) 822-1660 (405) 755-7272 Fax (405) 755-2058 Comments Tumerine 24 Hest bough <u>Westbound</u> E & BUNNO It st house a Aboun Nc Sthokes 0444 II)e Sthourd bown Eathous Project El Dovado Courty Div Die The Dec. に、 Project Number: 3215.99 01:30 mutur Volume / Ansa (If applicable) TIMACOSIA Deftend Eest cur Westan Ed Heno Eastence Westen Westerio 5 Hew Middle Middle Felter Brandy Pelts 4220 N. Santa Fe Ave., Oklahoma Civ, OK 73105 (Mark package "HOLD FOR PICKUP) 1 2 Ŵ Shim 6 \sim 2 Cdar / Description 1:11 Drown U oint fr BPOWR VOINT They auged rai Company Name: H8&T Environmental, Inc. Bass Lete Rd. U.C. LABORATORIES 12-7-99 1 TIMEDIA 5:00 m ET to Be Analyzed d, Ż Saturday FødEx Shipping: (Use for FedEx only) Sample ID Number Project Location: 310 9 5 Į ļ 10 ļ 2 Caus Reinquished By Reinquished By

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Asbestos Chain-of-Custody Form



Polarized Light Microscopy Asbestos Analysis Report

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

QuanTEM Set ID: 9912P103073 Date Received: December 8, 1999 Client: HB&T Environmental, Inc. Account Number: A103

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

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

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 guardrall shim,E-end,W-bd. inside	asbestos present chrysotile 70%	N/A	
3	3-B	homogeneous a ⁴	gray guardrail ^s 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 rali 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	celiułose 10%	
8	. 8-B	homogeneous	brown joint filler,E-end,W-bd, Inside	asbestos not present	celluiose 10%	
		7				
	Ja Va	melt		<u></u>	December 8, 19	99
	Keview	ed and Approved		19-47-00-00-00-00-00-00-00-00-00-00-00-00-00	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 FJ. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report shall not be reproduced except in full, without the written approval of the laboratory.



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

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

Analyzed By: Joe Melton Methodology: EPA 600/M4-82-020 Polarized Light Microscopy Asbestos Analysis Report

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

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 homog		brown joint filler,W-end,E-bd. inside	 asbestos not present 	cellulose 10%	
10	10-В	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. NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. 1 (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. This report shall not be reproduced except in full, without the written approval of the laboratory.

Z Analytical Service AHERA clearance samples musi combiliol
 B Inside, B cutalde, and 3. Mark samples coloried on 0.46 micron 2.6mm MCE filters with a minimum volume of 660 L. Dust-Cuentratve (Thera / eq. on) (ASTM D5755) Weste Winter (EPA 800/4-83-0/3) X Buik Anniyela (EPA 600/R-20/118) റ് Requested Butte Quantitative [meight 76] Buth - Constathe (Yes / No) (EPA 500R-PON 16) Dust- Qualitative [Yes / No] Drinking Water (EPA 100.2) Quantitive Point Counting AT - AHERA OF BIRDE TEN PLR AIT - NYOSH 7402 POH 101-2 Telephone number Page OOFL HBOIN Report results for Other Other Per Number Other Tuste 1.5.1 Litz 5 7 7 ADMUND SHA THERE Asbestos Chain-of-Custody Form G 2033 Heritage Park Drive, Oklahoma City, OK 73120 (800) 822-1650 (405) 755-7272 Fax (405) 755-2058 Community ~ Ż Tumure 24 Project El Davade County Westhourd Extholind Ex Hlawed Fatthound NE Hound Esthound Ne Harus lest hourd Den Due: The Due Project Number. 3215,99 12.5°11.000 Volume / Aras (if applicable) THEFT Eastens Ext sha Wedger. Westerd Neff and 1×4 cm En Hen <u>salk</u> ta Ít ein. 30 2 4220 N. Santa Fe Ave., Okiahoma City, OK 73105 (Mark package "HOLD FOR PICKUF) Brander D. 11 2 11 ≿ 22 Guardiail Shim, Buzu Celar / Description v, STATES -Sueun Jant 4 Company Name: HB&T Environmental, Inc. 6 ŝ LABORATORIES Clanksville Rd. 72-7-99 The Date 5:00 PM Analyzed Saturday FødEx Shipping: (Use for FødEx only) Sample ID Number ant Bins Pile Project Location: 6 2-2 1 9 9-B Ŷ 2 3-1 1 <u>}-</u> E. Performants Dy Reinquished By Cerr

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Polarized Light Microscopy Asbestos Analysis Report

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

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

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

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

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

QuanTEM Sample ID			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-В	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	celluiose 10%			
10	9-B	homogeneous	brown joint filler, E-end,E-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. NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. 1 (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. This report shall not be reproduced except in lull, without the written approval of the laboratory.

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Asbestos Chain-of-Custody Form

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

Project: #B&TEnvivonments U.C Company Name:

RJ, LETABAC Project Location:

El Dorado Counts Project Number: 3215, 29

unce"			Yes / NG	[weight %]	Yee / No]	fibera/aq.om]	A 100.2)	600/4-83-043)	termination of	al S blank samples - Seme MCF filars	d 660 L	ų,	600/R-63/116)	อื่นแหลง		A		
Ar - AHERA olearance"	At-TEK	AIL - NIOSH 7402	Bulk - Cualitative (768 / NG) (EPA 600/R-03/116)	Bulk - Quantitative [weight %] (Chained)	Duet-Qualitative (Yes / Ho)	Duet - Quertative [fibera / aq. cm] (ASTM D5765)	Drinking Water (EPA 100.2)	Weels Water (EPA 600/4-83-043)	Outer	- Autors degenerates purpose autors (Constanting and a faith a suppleates a subside a subside and a subside and a faith and a subside a	with a minimum volume	PLM	X Bulk Analysia (EPA 600/R-63/116)	Quantitative Point Counting	Other	PCM	00F2 HSCIN	
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	El To Ba				у Т													
	Sample ID Number		1-1		3-20	7-5	2-R	7-8	8-B	9-8	10-8							

Saturday FedEx Shipping: (Uze for FedEx only)

S'OD Prov

4220 N. Santa Fe Ave., Oklahoma City, OK 73105 (Mark package "HOLD FOR PICKUP")

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ö Page_ Id Analytical Service . Requested

TEM

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Date Due: The Dust Rine-Otle



Polarized Light Microscopy Asbestos Analysis Report

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

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

Analyzed By: Joe Melton Methodology: EPA 600/M4-82-020 Client: HB&T Environmental, Inc. Account Number: A103

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

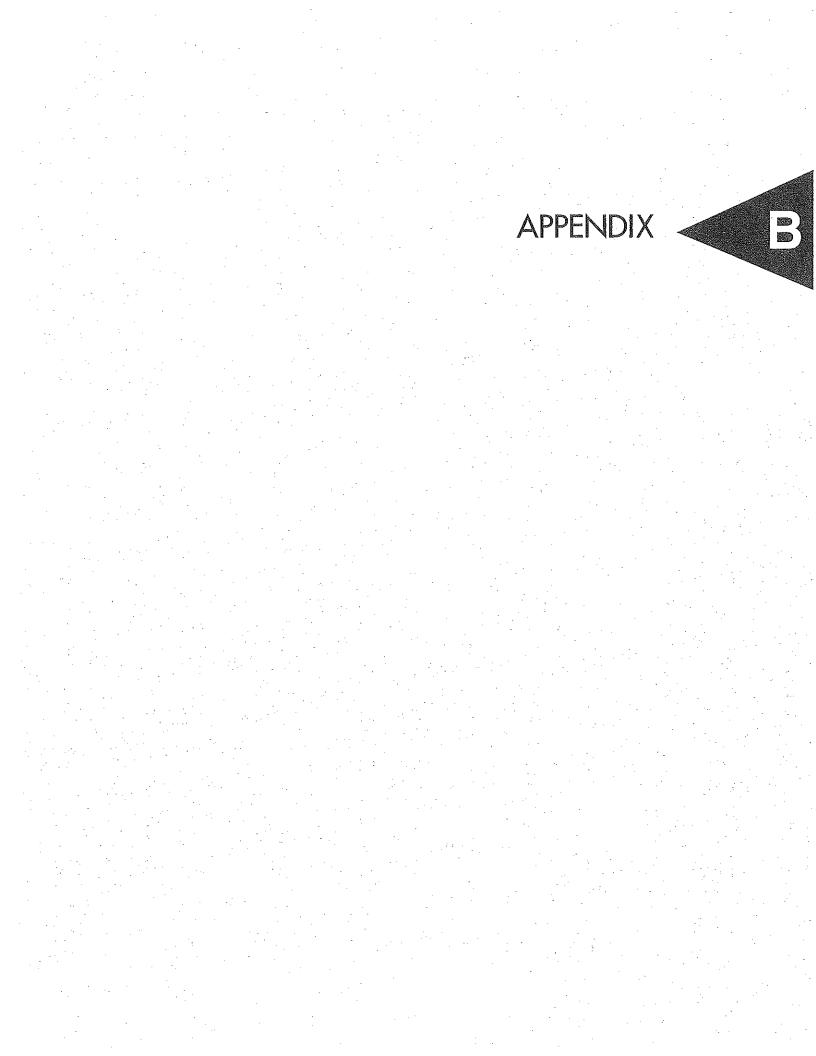
QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
11	10-B	homogeneous	brown joint filler, E-end,W-bd. inside	asbestos not present	cellulose 10%	

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. 1 (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. This report shall not be reproduced except in full, without the written approval of the laboratory.



Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15347 Order: 06248 Project: HWY 50 SI/S9300-06-22 Phase 2 Received: 11/29/07 Printed: 12/13/07

Page 1

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date ລ		Matrix			
в16,17-0	Ian Stevenson	11/26/0	7a	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.

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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-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 ລ		Matrix			
B16,17-1	Ian Stevenson	11/26/0	7a	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

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15349 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 ລ		Matrix			
B18,19,20-0 ===================================	Ian Stevenson	Ian Stevenson			Solid			
	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
рН Lead	7.4 23	0.1 1	1 2	pH units mg∕Kg	EPA 9045 EPA 6020	12/12/07 12/06/07	12/05/07	244? 2389

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: 07-C15350 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 ລ		Matrix			
B18, 19, 20-1	Ian Stevenson			7a	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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Lab Director, Michael Ng



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Log Number: 07-C15351 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 ລ		Matrix			
B18,20-2	Ian Stevensor	11/26/0	7a	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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Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15352 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 ຝ		Matrix			
B50,52,54,56-0	Ian Stevenson	11/27/0	27/07a 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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15353 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 ລິ		Matrix			
B50,52,54,56-1	Ian Stevensor	Ian Stevenson			Solid			
Analyte	Result	DLR	Dilution Factor	Units	Method Date Analyzed		Date Batc Prepared	
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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15354 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 ລ		Matrix			
B50,52-2	Ian Stevenson	11/27/0	7a	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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REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date ຝ		Matrix			
B51,53,55,57-0	Ian Stevenson	11/27/0	 7a 	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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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742

Log Number: 07-C15356 Order: 06248 Project: HWY 50 SI/S9300-06-22 Phase 2 Received: 11/29/07 Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

		Date @ `	Fime	Matrix			
Ian Stevenson	n Stevenson 11			Solid			
Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
2.2	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391
-	Result	Result DLR	Result DLR Dilution Factor	Result DLR Dilution Units	Result DLR Dilution Units Method Factor	Result DLR Dilution Units Method Date Factor Analyzed	Result DLR Dilution Units Method Date Date Factor Analyzed Prepared

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

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

Log Number: 07-C15357 Order: 06248 HWY 50 SI/S9300-06-22 Phase 2 Project: Received: 11/29/07 Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date ລ		Matrix			
======================================	Ian Stevenson	Ian Stevenson			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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15358 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 ລ		Matrix			
======================================	Ian Stevenson		11/27/0	7a	= ====================================			
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.

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: 07-C15359 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 ລ		Matrix			
358,60,62,64-1	Ian Stevensor		11/27/0		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.

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: 07-C15360 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 ର		Matrix					
:=====================================	Ian Stevenson	an Stevenson 11/27/07a				Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch		
pH Lead	6.9 2.3	0.1 1	1 2	pH units mg/Kg	EPA 9045 EPA 6020	12/12/07 12/06/07	12/05/07	2447 2391		

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

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 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 ລ		Matrix			
======================================	Ian Stevenson		11/27/0	11/27/07a		·		
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

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

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15363 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 @ `		Matrix				
B63-2	Ian Stevenson	on 11/27/07a			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

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15364 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 ສ		Matrix			
B66,68,70,72-0	Ian Stevenson	 11/27/0	7a	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

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15365 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 ລ		Matríx			
B66,68,70,72-1	Ian Stevenson	Ian Stevenson			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

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15366 Order: 06248 Project: HWY 50 SI/S9300-06-22 Phase 2 Received: 11/29/07 Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sampled By		=		Matrix			
Ian Stevenso	Ian Stevenson			= ====================================			
Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
1.3	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2391
-	Ian Stevenso Result	Ian Stevenson Result DLR	Sampled By Date a Ian Stevenson 11/27/0 Result DLR Dilution Factor	Ian Stevenson 11/27/07a Result DLR Dilution Units Factor	Sampled By Date a Time Matrix Ian Stevenson 11/27/07a Solid Result DLR Dilution Units Method Factor	Sampled By Date @ Time Matrix Ian Stevenson 11/27/07@ Solid Result DLR Dilution Units Method Date Factor Analyzed	Sampled By Date @ Time Matrix Ian Stevenson 11/27/07@ Solid Result DLR Dilution Units Method Date Date Factor Analyzed Prepared

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

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15367 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 ລ		Matrix			
B67,69,71,73-0	Ian Stevenson	11/27/0	 7a	= ====================================				
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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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742

Log Number: 07-C15368 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 @		Matrix			
	Ian Stevenson	lan Stevenson			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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Lab Director, Michael Ng



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

Log Number: 07-C15369 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 ລ		Matrix			
B67,69,71,73-2	Ian Stevenson	Ian Stevenson			Solid			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
рН Lead	7.0 Not Detected	0.1 1	1 2	pH units mg/Kg	EPA 9045 EPA 6020	12/12/07 12/13/07	12/11/07	2447 2510

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

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Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15370 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 ລ		Matrix			
B74,76,78,80-0	Ian Stevenson	11/27/0	1/27/07a Solio					
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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15371 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 ລໍ		Matrix			
B74,76,78,80-1	Ian Stevenson		11/27/0	7a	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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Lab Director, Michael Ng

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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15372 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 ລ		Matrix			
B74,76,78,80-2	Ian Stevenson	lan Stevenson			Solíd			
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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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742

Log Number: 07-C15373 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 ລ		Matrix			
B75,77,79,81-0	Ian Stevenson	n Stevenson 11			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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Lab Director, Michael Ng



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

Log Number: 07-C15374 06248 Order: 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 By Date a Time = ===================================			Matrix			
B75,77,79,81-1	Ian Stevenson				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

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15375 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 ລ		Matrix			
B75,77,79,81-2	Ian Stevenson	Ian Stevenson			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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Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15376 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 By ====================================			Matrix				
B82,84,86,88,90-0	Ian Stevensor				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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Lab Director, Michael Ng

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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15377 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 ລ		Matrix				
B82,84,86,88,90-1	Ian Stevenson	an Stevenson 11/27/07a							
Analyte	==	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch	
рН Lead	7.7 3.5	0.1 1	1 2	pH units mg/Kg	EPA 9045 EPA 6020	12/12/07 12/13/07	12/11/07	2447 2510	

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

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15378 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 @		Matrix				
======================================	Ian Stevenson	11/27/0	7a	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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Lab Director, Michael Ng



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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15379 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 By = ==================================			Matrix 			
B83,85,87,89,91-0	Ian Stevenson							
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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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15380 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 ຄ		Matrix			
B83,85,87,89,91-1	Ian Stevenson	Ian Stevenson			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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Lab Director, Michael Ng



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

Log Number: 07-C15381 Order: 06248 Project: HWY 50 SI/S9300-06-22 Phase 2 Received: 11/29/07 12/13/07 Printed:

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled By Date a Time			Matrix				
B83,85,87,89,91-2	Ian Stevenson				Solīd				
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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Lab Director, Michael Ng

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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15382 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 Sampled Sampled Date @ Time			Matrix			
PC-2 (Paint Chip)	Ian Stevenson				= ====================================			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Chromium Lead	100 290	1	2 2	mg/Kg mg/Kg	EPA 6020 EPA 6020	12/12/07 12/13/07	12/11/07 12/11/07	2515 2510

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

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C15383 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 ଇ		Matrix			
PC-3 (Paint Chip)	Ian Stevenson		11/27/0		= ====================================			
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 2510
Lead	210	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	

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

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Page 37



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Quality Control Results

Page 38

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 F	Recovery Limits	Batch
pH	EPA 9045	100%	7.0	pH units	s 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

-		MS	MSD		Matrix	Spike			RPD	
Analyte	Method	Rec.	Rec.	RPD	Sample	Amount	Units	Recovery Limits	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
рH	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	07-015393	32	32	2	mg/Kg	30.	2510

Creek Eivironmental Lab 141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805)	DIMENTS Luis Obispo, CA 934	al Lab	Orator) 545-9838 fax (8	Oratories, Inc. Chain 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com	.creeklabs.cor	1 sales(Ch Bereekle	ain-(of-Cu	Chain-of-Custoc	N S
Please Print in Pen						,		~	fg.		
Geocon Consultants		Contact	ot – Ian Stevenson	uo	Phone 916-852-9118	-852-91	18	Due Date:	÷	Other Normal TAT	
Address 3160 Gold Valley Drive #800 Project Nome/Alimeter Hitter	City Rancho Cordova		State CA CA	Zip 95742	Fax916-852-9132	-9132		Cell 91 Beener	6-869		K
regen neure/incident Highway 50 SI/S9300-06-22	SI/S9300-06-22				PO#			Copies To:	To:]
Bill to (if different from above)		Address		Ð	City			State	d Z		
Sampler Name (Print) lan Stevenson		Comments:	Pluese 2					Matrix AO = ⊿	Matrix Key: DW AO = Anteolis	Matrix Key: DW = Drinking Water AO = Amenus SI = Soil/Soild	rter
Sample Description		Date/Time Sampled	Analysis			Matrix	# of Bottles	Preservative / Type Bottles		Creek Lah Samulo #	
<u>Bl6,17-0</u>		11/26/07	Tetal	and 601	SIG.	ທ		noue	5700	15347	
B16,17-1						<i>v</i> a	N		0/	15375	
· B18, 19, 20 - 0			Total Lead	LEDER,	ЬH	v	M			5	0
B(8, 19, 20 - 1						v	M		 	522	
B18, X 20-2		>				v	2		а	1535	,
0.020,52, 54, 56 -0		11/27/02				ທີ	4			1535	2
BSD.52,54,56 - 1		• •			•	u)	2			1535	Ń
<u>1350, 52, -2</u>		· ·				w	N			15355)
B51, 63, 55, 57-O				V.		vy	2			153.05	10
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	Creek Environmental Laboratories, Inc. 141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.ci	al Laboratories, Inc. Chain 01 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com	teekiabs.com sales@	Chain-of-Custody
	Client Name Geocon Consultants	Contact – Ian Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other Normal TAT
	Address City 3160 Gold Valley Drive #800 Rancho Cordova	state CA Zip a CA 95742	Fax916-852-9132	
	iy 50 SI/		PO#	Copies To:
÷	Bill to: (if different from above)	Address City	Å	State Zip
	Sampler Name (Print) lan Stevenson	Comments: Phase 2		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid
	Sample Description	Date/Time Sampled Analysis	# of Matrix Bottles Pre	Preservative / Type Bottles Creek Lab Sample #
	051,53,55,57-1	07 Total Lead CO		15356
-	BS1.55.57-2		Ø	16251
	Ĵ		U)	15358
	B58,60,62,64-1		S	15359
- -	B58,62,64-2	Total Lead 60108.	s Ha	15300
	B59,61,63,65-0	Total Lead 6010	S S	15361
	63		S	15302
ан Кар	N		S	15363
	066.68 20,72 - 0		S	15364
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	REMARKS (NOAIOI-O) 15	361		

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	ouite C-5, San Luis Obispo, CA 93401 phone (805)	545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com	treeklabs.com sales@	labs.com Order #00248
	Please Print in Pen Client Namo			S075
	sultants	Contact – Ian Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other Normal TAT
:	Address City State 3160 Gold Valley Drive #800 Rancho Cordova CA	e CA Zip 95742	Fax916-852-9132	တ္တ
	Project Name/Number Highway 50 SI/S9300-06-22		PO#	Copies To:
	Bill to: (if different from above) Address	City	X	State Zip
		Phase 2		Matrix Key: DW = Drinking Water AQ = Agueous St = Soil/Solid
	Sample Description Sampled	Analysis	# of Matrix Bottles	Preservative / Type Bottles Creat 1 showing #
	B66, 68, 70, 72 -1 11/27/67 To	Total Lead 6010B	<i>U</i> S -	
•	866, 68, 70, 72 - 2	-	U	153106
	B67 69, 71, 73 - O		Ø	12367
- Q	867,69,71,73-1		Ø	12368
. a	067, 69, 71, 73-2	Total Land 60103. AH	H s	15369
	074,76,78,80-0	Total Lead 6010B	s	012310
	B74, 76, 78, 80, - 1		Ø	12211
4	B74, 76, 78, 80 - 2		Ø	15372
e	B75, 77, 79, 81-0		Ø	15373
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· · ·		1163,81771	ULVBM THI	ULAM Creek Environmental Laboratories, Inc.
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	REMARKS			

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Please Print in Pen			U of S
Client Name Geocon Consultants	Contact – Ian Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other Normal TAT
Address City 3160 Gold Valley Drive #800 Rancho Cordova	State CA Zip CA 95742	Fax916-852-9132	916-869-4308 er
iy 50 SI/		PO#	Copies To:
Bill to: (if different from above)	Address City	Ŋ	State Zip
Sampler Name (Print) Ian Stevenson Con	comments: Pluase 2		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid
Date/Tim Sample Description Sampled	Date/Time Sampled Analysis	# of Matrix Bottles Pre	Preservative / Type Bottles Creek Lab Sample #
1-18		5	
B75,77,78,81-2		S)	15375
BS2 84, 86, 88, 90 - 0		Û	15376
B82, 84, 86, 88, 90 - 1	Total Lead 6000 . D	pH s	15377
082.54.86.88-2	Total Lead 6010B	<i>s</i>	15378
B&3&5,8%,89,91-0		S	15379
N		Ø	15380
1383 85.37 89 ⁹¹ 2		IJ	12281
47.48	Hike Tidle 22 wereads	5 4 1'ce	2 Parts
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
(Sign) (Print)	(Organization) (Sign)	(Print)	(Organization)
In Tan Sterness Ge	ocen 10010		-
	11441,020111 (UNDATTATU	Contractories, Inc.
FOR LAB USE ONLY: Shipping Method: Client/ Labr C	Courier: Sample Co	Sample Conditions: Temp: Intact	N IX
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	N I J	/ An is ciles	

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 Please Print in Pen 		-			J G	5 of 5
Client Name Geocon Consultants	Contact	act – Ian Stevenson	Phone 916-852-9118	2-9118	Due Date:	ate: 48Hr Other Normal TAT
Address City 3160 Gold Valley Drive #800 Rancho Cordova		State CA Zip CA 95742	Fax916-852-9132	132	Cell 91 Rearer	69-4308
ty 50 SI/			PO#		Copies To:	: To:
Bill to: (if different from above)	Address		City		State	Zip
Sampler Name (Print) lan Stevenson	Comments:	Pl 2			Matrix AO = /	Matrix Key: DW = Drinking Water AO = Armenus SI = Soil/Solid
Samole Description	Date/Time			10 #		
		Alialysis	Mia -	Matrix Bottles	Preservative / Type Bottles	ype Bottles Creek Lab Sample #
B46, 47 48, 49-1	~ 1/20 /11/20	title 22 metals	5	4	1.56	The Alexandre
0 4 4 7 4 4 4 0 - 2 - ()	V- ups / 1160		S			
7) <u></u>				2	
DC-2 (Part elip)	11/27/07	Total Lead COID tota	(devolution) 5	j j	hour	ber 15382
PC-3 (Paint chin)		~	S OXO	-	ſ	1, 15383
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		H11-12-2011	TUNOM	TH	MBM	Creek Environmental Laboratories, Inc.
FOR LAB USE ONLY: Shipping Method: Client/ Labr Courier:	ent/Labr Courier:	Sample C	Sample Conditions: Temp:		Intact (V/ N	Custody Sealed: V/N
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CREEK ENVIRONMENTAL LABORATORIES, INC. 141 SUBURBAN ROAD, SUITE C-5 • SAN LUIS OBISPO, CA 93401 • (805) 545-9838 • FAX (805) 545-0107

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

Log Number: 07-C15449 06274 Order: 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 ລ	[ime	Matrix			
	Ian Stevenson		11/27/0	7a	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.

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

Log Number: 07-C15450 Order: 06274 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 ລ		Matrix 			======
======================================	Ian Stevenson		11/27/0	7a	 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

Page 2



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

Log Number: 07-C15451 Order: 06274 HWY 50 SI/S9300-06-22 Phase 2 Project: Received: 11/30/07 12/11/07 Printed:

Page 3

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date ລ	Time	Matrix			
B46,47,48,49-2	Ian Stevenson		11/27/0	7@	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	1 2/ 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
Vanadîum	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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Quality Control Results

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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
Соррег	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
Zînc	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

		MS	MSD	Matrix	Spike			RPD	
Analyte	Method	Rec.	Rec.	RPD Sample	Amount	Units	Recovery Limits	Limit	Batch
Antimony	EPA 6020	95%	102%	7 07-c15544	50	mg/Kg	10 - 120	30	2373

Quality Control Results

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Order No.: 06274

Matrix Spike/Matrix Spike Duplicates

		MS	MSD		Matrix	Spike			RPD	
Analyte	Method	Rec.	Rec.	RPD	Sample	Amount	Units	Recovery Limits	Limit	Batch
A	EPA 6020	92%	96%		07-c15544	50	mg/Kg	60 - 140	30	2373
Arsenic									30	2373
Barium	EPA 6020	83%	84%		07-C15544	50	mg/Kg			
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

			Sample	Sample				
Analyte	Method	Sample ID	Value	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
Cadmīum	EPA 6020	07-C15543	< 0.4	< 0.4	0	mg∕Kg	30.	2373
Chromīum	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 Lab	al Laboratories, Inc.	es, Inc.		\bigcirc	hain-	of-C	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	eeklabs.com	sales@cree	klabs.com	Order	0rder # <u>06274</u>
 Please Print in Pen 							10 day.
Client Name Geocon Consultants	Contact – Ian Stevenson		Phone 916-852-9118	52-9118	Due Date: 24Hr 48h	Date: 48Hr Other(er Normal TAT
Address City City #800 Rancho Cordova	State CA		Fax916-852-9132	9132	Cell 91(Beeper	Cell 916-869-4308 Beeper	
iy 50 SI/			PO#		Copie	Copies To:	
Bill to: (if different from above)	Address	City			State	dīZ ,	
Sampler Name (Print) Ian Stevenson	Comments: Plase 2				Matr AQ =	ix Key: DW = - Aqueous S	Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid
Samule Description	Date/Time Sampled Analvsis			#of Matrix Bottles		Preservative / Type Bottles	Creek Lab Sample #
0-64 62 62 700	1 T.H. 22	metals /ce	4417	s v		Tubestans	
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FOR LAB USE ONLY: Shipping Method: Client/ Lab/	Lab/ Courier	Sample Conditions:	· .	Temp: 3 °	intact (MN		Custody Sealed: Y/(N)
REMARKS							



A Minority-owned Business Enterprise A Minority A Minority-owned Business Enterprise A Minority A Minorit

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 08-C910 Order: P0367 Project: Highway Received: 01/22/08 Printed: 03/12/08

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08-C910 P0367 Highway 50 SI/S9300-06-22 Phase 2 01/22/08

Page 1

REPORT OF ANALYTICAL RESULTS

	Ian Stevenson	DLR	Sampled Date @ Ti 01/15/080 Dilution Factor	ine Ingationsees I	Solid	Date Analyzed	+ *	
Lead	25	0,4	l I	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



			Page	4	
Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742	Log Number: Order: Project: Received: Printed:	D0367	SI/S9300-06-22 Phase	2	

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By Ian Stevenson Result	DLR	Sampled Date @ Tip 01/15/08@ Dilution	**============	Matrix Solid Selid Method	Date Analyzed	Date Prepared	Batch
			Factor	mg/Kg	EPA 6020	01/28/09	01/27/08	4116
Lead	0.5	0.4						

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

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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742	Log Number: Order: Project: Received:	P0367 Highway 50 01/22/08
Rancho Cordova, CA. 95742	Printed	03/12/08

Page 3

enson onsultants d Valley Drive #800 ordova, CA 95742	Project: H Received: (DU367	1/59300-06-22	Phase	2	
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REPORT OF ANALYTICAL RESULTS

B134, 136, 130, 140-2	Sampled By		Sampled Date 8 4 01/15/0 01/15/0 Dilution Factor	Time 80 Units	Matrix Solid Nethod	Date Analyzed 01/28/08	Date Prepared	Batch 4122
Lead	5.0	0.4	1	mg/Kg 	EPA 6020			

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

CREEK ENVIRONMENTAL LABORATORIES



		·	Page	4
Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742	Log Number: Order: Project: Received: Printed:	08-C913 P0367 Highway 50 SI/S9300-06-22 01/22/08 03/12/08	Phase	2

REPORT OF ANALYTICAL RESULTS

Sample Description Philipponetaneous and a second s	Sampled By	DLR	Sampled Date 0 1 01/15/01 Dilution Factor	ſime ========	Matrix Solid Engagements Method	Date Analyzed	Date Prepared	Batch
pH Lead	7.6 46	0.1 0.4	1	pH units mg/Kg	EPA 9045 EPA 6020	02/04/08 01/28/08	01/27/08	4186 4122

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

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



		-	· · · ·	Page	5
Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742	Log Number: Order: Project: Received: Printed:	P0367	SI/S9300-06-22	Phase	2

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date % 7	rime Time	Matrix			5 72 242
B135, 137, 139, 141-1 Decompany and a second	Ian Stevenson Result	DLR D.	01/15/00	Units	Solid Annual 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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



Page 6Ian StevensonLog Number: 08-C915Geocon ConsultantsOrder: P03673160 Gold Valley Drive #800Project: Highway 50 SI/S9300-06-22 Phase 2Rancho Cordova, CA 95742Received: 01/22/08Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description HERRICHTERNEHERRICHTERNEHERRICHTERNEHER B137, 139, 141-2 COMMENSATIONNEHERRICHTERNEHERRICHTERNEHER Analyte	Sampled By Than Stevenson Result	DLR DLR	Sampled Date 0 1 01/15/08 Dilution Factor		Matrix Solid Method	Date	Date Prepared	
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 be

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Lab Director, Michael Ng



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Geocon ConsultantsProject:Highway 50 SI/S9300-06-22 Phase 23160 Gold Valley Drive #800Project:01/22/08Rancho Cordova, CA 95742Received:01/22/08Printed:03/12/08		Received:	P0367 Highway 50 SI/S9300-06-22 Phase 2 01/22/08
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REPORT OF ANALYTICAL RESULTS

Sample peacification	Sampled By	DLR	Sampled Date 0 01/15/0 Dilution Factor	Time	Matrix Solid Solid 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

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CREEK ENVIRONMENTAL LABORATORIES



141 SUBURBAN ROAD, SUITE C-5 • SAN LUIS OBISPO, CA 93401 • (805) 545-9838 • FAX (805) 545-0107

Page 8Ian StevensonLog Number: 08-C917Geocon ConsultantsOrder: P03673160 Gold Valley Drive #800Project: Highway 50 SI/S9300-06-22 Phase 2Rancho Cordova, CA 95742Received: 01/22/08Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description B142, 144, 146, 148-1 Samesergeneous second	Sampled By Date @ Tim Tan Stevenson 01/15/08@			ISSECTOR STREET				
	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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



•				Page	9	
Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742	Log Number: Order: Project: Received: Printed:	P0367	SI/S9300-06-22	Phase	2	

REPORT OF ANALYTICAL RESULTS

Sample Description madering and a construction of the second sec	Sampled By	DLR	01/15/0		Solid	Date Analyzed			
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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



			Page	10
Ian Stevenson	Log Number:	08-C919		
Geocon Consultants	Order:	P0367		
3160 Gold Valley Drive #800	Project:	Highway 50 SI/S9300-06-22 P	hase	2
Rancho Cordova, CA 95742	Received:	01/22/08		
	Printed:	03/12/08		

REPORT OF ANALYTICAL RESULTS

			Sample	d .				
Sample Description	Sampled By		Date 0	Time	Matrix			
		erusesee ee	FARE FORMER	***********		म दा हम स्थान प्रदेश का का जात		ور استغر الأشر
B143, 145, 147, 149-0	Ian Stevenson		01/15/	986	Solid			
	*****************		****		도로C 디즈디 미국 미국 미국 미국 미국 미국 미국 미국	*********	Papessase	
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
			Factor			Analyzed	Prepared	
Lead	33	0.4	1	ma/Ka	EPA 6020	01/29/08	01/27/08	4132

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: Order: Project: Received: Printed:	P0367	si/s9300-06-22	Phase	2	

REPORT OF ANALYTICAL RESULTS

Analyte Result DLR Dilution Units Method Date Date Batch Factor Analyzed Prepared	pssestebetstandensestessestesses Offic bootthere	Sampled By Han Stevenson		Sampled Date @ Ti 01/15/080	*****	Solid	-4445		
			DLR .		Units		Date	Date	
Lead 1.8 0.4 1 mg/Kg EPA 6020 01/29/08 01/27/08 4132	Lead	1.8	.0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

DLR = Detection Limit for Reporting, Results

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



				Page	12	
Ian Stevenson	Log Number:	08-C921		-		
Geocon Consultants	Order:	P0367				
3160 Gold Valley Drive #800	Project:	Highway 50	SI/S9300-06-22	Phase	2	
Rancho Cordova, CA 95742	Received:	01/22/08				
	Printed:	03/12/08				

REPORT OF ANALYTICAL RESULTS

			Sampled	l.				
Sample Description	Sampled By		Date @	Time	Matrix	•		
								مغرودين الألالات
B143, 145, 147, 149-2	Ian Stevenson		01/15/0	60	Solid			
	а навенферсонова			*********				*****
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
			Factor			Analyzed	Prepared	- 1999 - 2010 2010 - 2010
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

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

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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			Page	13
Ian Stevenson	Log Number:	08-C922		
Geocon Consultants	Order:	P0367		
3160 Gold Valley Drive #800	Project:	Highway 50 SI/S9300-06-22	Phase	2
Rancho Cordova, CA 95742	Received:	01/22/08		
	Printed:	03/12/08		

REPORT OF ANALYTICAL RESULTS

Sample Description HELESSON AND AND AND AND AND AND AND AND AND AN	Sampled By Ian Stevenson	ور قو ود فو ند زو ند به	01/16/0	Time Xepeenwersers	Matrix Solid			
zzezzocianazzezzezzezzezzena anadazze Analyte	Result	DLR	Dilution Factor	Ųnits	Method	Date Analyzed	Date Prepared	Batch
Lead	ê.2	0.4	. 1	mg/Kg	EPA 6020	01/29/08	01/27/08	4132

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: Order: Project: Received: Printed:	P0367	sı/s9300 - 06-22	Phase	2

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date & Tir HERE HERE 01/16/080	ne 	Matrix Solid	مر د از بر از	*******	
Albo, 152, 154, 160-1 coombasteroome Analyte		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
DID - Detection Limit for Bonorting	Begulte of "Not	Detected!	are below DLR.					

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng

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				Page	15
Ian Stevenson	Log Number:	08-C924			
Geocon Consultants	Order:	P0367			,
3160 Gold Valley Drive #800	Project:	Highway 50	SI/S9300-06-22	Phase	2
Rancho Cordova, CA 95742	Received:	01/22/08		•	
	Printed:	03/12/08			

REPORT OF ANALYTICAL RESULTS

			Sampled					
Sample Description	Sampled By		Date 0 Ti	me	Matrix			
			seepond decese	*	*****************	**********		
B150, 154-2	Ian Stevenson		01/16/08@		Solid			

Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
-			Factor			Analyzed	Prepared	• •
*	1.1	0.4		mg/Kg	EPA 6020	01/29/06	01/27/08	4132
Lead	1,1	0.4		11197 159		01/20/00		
DLP = Detection Limit for Reporting	Results of "Not	Datected	are below DLR					

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



		. Page	16
Ian Stevenson	Log Number;	08-C925	
Geocon Consultants	Order:	P0367	
3160 Gold Valley Drive	800 Project:	Highway 50 SI/S9300-06-22 Phase	2
Rancho Cordova, CA 957		01/22/08	
	Printed:	03/12/08	

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	·	Sampled Date 0	Time .	Matrix			
B151, 153, 155, 161-0	Ian Stevenson		01/16/0					
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

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Pao	e	17

Ian StevensonLog Number: 08-C926Geocon ConsultantsOrder: P03673160 Gold Valley Drive #800Project: Highway 50 SI/S9300-06-22 Phase 2Rancho Cordova, CA 95742Received: 01/22/08Printed: 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Ian Stevenson		01/16/080		Matrix Solid			
Analyte	Result	DER	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	tare below DLP					

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: Order: Project: Received: Printed:	08-C927 P0367 Highway 50 SI/S9300-06-22 01/22/08 03/12/08	Page 18 Phase 2

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REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	ist comparise	Sampled Date &		Matrix	و و و خط و چ		
8151, 153, 155, 161~2	Ian Stevenson		01/16/0	80	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 B	1.9		Ph # 10 10 10 10 10 10 10 10 10 10	********	

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Lab Director, Michael Ng



		Pag	e 19
Ian Stevenson	Log Number:	Ó8-C928	
Geocon Consultants	Order:	P0367	
3160 Gold Valley Drive #800	Project:	Highway 50 SI/S9300-06-22 Phas	e 2
Ranchó Cordova, CA 95742	Received:	01/22/08	
	Printed:	03/12/08	

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date 0	fime	Matrix			
B162, 164, 166, 168-0	Ian Stevenson		01/16/0		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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· · ·			Page 20
Ian Stevenson	Log Number:	08-C929	-
Geocon Consultants	Order:	P0367	
3160 Gold Valley Drive #800	Project:	Highway 50 51/89300-06-22	2 Phase 2
Rancho Cordova, CA 95742	Received:	01/22/08	
	Printed:	03/12/08	

REPORT OF ANALYTICAL RESULTS

Sample Description ====================================	Ian Stevenson		01/16/00		Matrix 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
DID - Determine The large								

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

CREEK ENVIRONMENTAL LABORATORIES



				Page 21
Ian Stevenson	Log Number;	08-C930		-
Geocon Consultants	Order:	P0367		
3160 Gold Valley Drive #800	Project:	Highway 50	SI/S9300-06-22	Phase 2
Rancho Cordova, CA 95742	Received:	01/22/08	· · · ·	
	Printed:	03/12/08	• '	

REPORT OF ANALYTICAL RESULTS

	•		Sampled					
Sample Description	Sampled By		Date 🔮 🕄	Time	Matrix			
	in ideidantarratik	waaaaaa		ومهموم ومقووهم	<u>ésosnitottottottotto</u>			anter a constante a constan
B162, 164, 166, 168-2	Ian Stevenson		01/16/00	0	Solid	•		
					ويتك يروح والمراجعة المراجع فمراغة أعلا أعلا فللم الملاقع المالية	والكالية فلاشت وبريج ومراجع محاصر		
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
			Factor			Analyzed	Prepared	
Lead	Not Detected	0.4	<u>,</u> 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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------ A Minority-owned Business Enterprise ------

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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Page 22 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	Ian Stevenson		01/16/0	Time 	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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Ian Stevenson	Log Number: 08-C932	
Geocon Consultants	Order: P0367	
3160 Gold Valley Drive #800	Project: Highway 50 SI/S9300-06-22 Phase 2	
Rancho Cordova, CA 95742	Received: 01/22/08	
	Printed: 03/12/08	

REPORT OF ANALYTICAL RESULTS

Sample Description	****		01/16	0 Time	Solid			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	6.9	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.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



A Minority-owned Business Enterprise A Minority A Minority-owned Business Enterprise A Minority A Minority-owned Business Enterprise A Minority A Min

Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Page 24 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

			Sampled					
Sample Description	Sampled By		Date 🛿 Ti	me	Matrix			
		क स्त्र के को उने को कि ब्लाह्म की कि				na a more a cor	******	ta su contra su contr
B163, 165, 167, 169-2	Ian Stevenson		01/16/08@		Solid			
		فتناطرها تباعده إعادته	HERAR FREduced		444435544446454446		·변종년고국 특별 탄양원	이라 또 되는 그 것
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
· · · · · · · · · · · · · · · · · · ·			Factor			Analyzed	Prepared	
***************************************					*			
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.

CREEK ENVIRONMENTAL LABORATORIES



		1	Page	25
Ian Stevenson	Log Number:	08-C934	-	
Geocon Consultants	Order:	P0367		
3160 Gold Valley Drive #800	Project:	Highway 50 SI/S9300-06-22 Pl	hase	2
Rancho Cordova, CA 95742	Received:	01/22/08		
	Printed:	03/12/08		

REPORT OF ANALYTICAL RESULTS

			Sampled						
Sample Description	Sampled By		Date @ 1	fime	Matrix				
***************************************	29952222222222222	عددا محتفظ بتبته	adadid Meneceda					=====	
B170, 172, 174, 176-0	lan Stevenson		01/16/06	30	Solid				
	وي جون المحمد الم	ولاحظ علد جد تدخد						2532¥¥	
Analyte	Result	DLR	Dilution	Units	Method	Date	Date I	Batch .	
•			Factor			Analyzed	Prepared		
Lead	23	Q.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



				Page	26
Ian Stevenson	Log Number:	08-C935			
Geocon Consultants	Order:	P0367.			•
3160 Gold Valley Drive #800	Project:	Highway 50	SI/S9300-06-22	Phase	2
Rancho Cordova, CA 95742	Received:	01/22/08			
	Printed:	03/12/08			

REPORT OF ANALYTICAL RESULTS

			Sampled					
Sample Description	Sampled By		Date @	Time	Matrix			
əəsəəsədə bəttə bəttə bətə bətə bətə əsəəsədə bətə əsəəsədə bətə bətə bətə bətə bətə bətə bətə b	***************************************						이 전철 독교 미국 보 주 분석	*****
B170, 172, 174, 176-1	Ian Stevenson	:	01/16/0	8@	Solid			
***************************************			Pacha Decemen	*****				计正态算机电算
Analyte	Result	DLR	Dilution	Units	Method '	Date	Date	Batch
		2.	Factor	· •	1 - A	Analyzed	Prepared	- 11 C

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.

CREEK ENVIRONMENTAL LABORATORIES



		Page 27	
Ian Stevenson	Log Number:	08-C936	
Geocon Consultants	Order:	P0367	
3160 Gold Valley Drive #800	Project:	Highway 50 SI/S9300-06-22 Phase 2	
Rancho Cordova, CA 95742	Received:	01/22/08	
	Printed:	03/12/08	
1	Received:	01/22/08	

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampleo Date 0	Time	Matrix			
B170, 172, 176-2	Ian Stevenson	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	01/16/0		Solid	•		
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	4.5	0.4	1	mg/Kg	EFA 6020	01/29/08	01/27/08	4134
DTD _ D_k_tile Yinth day Descett								

Reporting. Results of "Not Detected" are

CREEK ENVIRONMENTAL LABORATORIES



				Page 28
Ian Stevenson		Log Number:	08-C937	
Geocon Consultants		Order:	P0367	
3160 Gold Valley Drive #800	,	Project:	Highway 50 SI/S9300-06-22	2 Phase 2
Rancho Cordova, CA 95742		Received:	01/22/08	
		Printed:	03/12/08	

REPORT OF ANALYTICAL RESULTS

			Sampled					
Sample Description	Sampled By		Date @	Time	Matrix			
		nin a casa a cana a			nausenaarausouuu		*******	*****
B171, 173, 175, 177-0	Ian Stevenson		01/16/0	96	Solid			
			annee pecaame			*****		
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
			Factor	4.1		Analyzed	Prepared	1.1
							~~~~~~	+
рН	7.7	0.1	1	p∺ units	EPA 9045	02/04/08		4185
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.

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Ian Stevenson	Log Number:	08-C938
Geocon Consultants	Order:	P0367
3160 Gold Valley Drive #800	Project:	Highway 50 SI/S9300-06-22 Phase 2
Rancho Cordova, CA 95742	Received:	01/22/08
· · ·	Printed:	03/12/08

#### REPORT OF ANALYTICAL RESULTS

Sample Description				Time www.pace-parce		ie contractions and the		ing 다양 다 다 문
B171, 173, 175, 177-1 Philippine	Ian Stevenson Result	DLR	01/16/ Dilution Factor	'Units	Solid Densessesses Method	Date Analyzed	Date Prepared	Batch
Lead	1.6	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4134
DID - Detection Timit for Description	B		* * - * - *					

DLR  $\Rightarrow$  Detection Limit for Reporting, Results of "Not Detected" are below DLR.

Lab Director, Michael Ng



Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Page 30 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

			Sampled					
Sample Description	Sampled By		Date 0	rime	Matrix			
#=====================================	201124-000000000000000000000000000000000		uraxe estadoou;		Luupperclotdatt			ISHGECZ
B171, 173, 177-2	Ian Stevenson		01/16/0	66	Solid			•
				*********	423 452 762 553 553 553 553 553 553 553 555 555 55			
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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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 -Rancho Cordova, CA 95742 Page 31 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

			Sampled					
Sample Description	Sampled By		Date 0 1	ime	Matrix			
			Rases 22688888		****************			
B178, 180, 182-0	Ian Stevenson		01/16/08	6	Solid		•	
		والمعربين ورغيبه الذكر	n mainte a prosta de la companya de	يتداعد أتعاريك فستشتط بعاريتها				
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
			Factor			Analyzed	Prepared	
Lead	42	0.4	1. 1.	mg/Kg	EPA 6020	01/29/08	01/27/08	4134
BLR = Detection Limit for Paparting	Pogulto of INct	Netoeted						

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

CREEK ENVIRONMENTAL LABORATORIES



						Page	32
	Ian Stevenson		Log Number:	08-C941	•		
	Geocon Consultants		Order:	P0367	· .		
•	3160 Gold Valley Drive	#800	Project:	Highway 50	) SI/S9300-06-22	Phase	2
	Rancho Cordova, CA 95	742	Received:	01/22/08			
		•	Printed:	03/12/08			

#### REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date @ T	ime	Matrix			•
	بتجريق للاقت الإقراع إحدها عرعة فتكر		CGG带着 第月第年3953月3			مدفية فيكمنك فعندهم		
B178, 180, 182-1	Ian Stevenson		01/16/08	6	Solid			
			anana dasapan					*****
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
	* • ·		Factor		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Analyzed	Prepared	
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 Db					

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				Page	33
Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742	Log Number: Order: Project: Received: Printed:	P0367	sI/s9300-06-22	Phase	2

#### REPORT OF ANALYTICAL RESULTS

Sample Description MEDIALSERIES B176, 180, 182-2 Medialseries Analyte	Sampled By Ian Stevenson Result		01/16/	Time 	Solid			
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.

Bab Director, Michael Ng



				Page	34
Ian Stevenson	Log Number:	08-C943			
Geocon Consultants	Order:	P0367			
3150 Gold Valley Drive #800	Project:	Highway 50	SI/S9300-06-22	Phase	2
Rancho Cordova, CA 95742	Received;	01/22/08		¥,	
	Printed:	03/12/08			

#### REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date 0		Matrix			
***************************************			THERE MORECON	*****		지구부수의 마지무의 비행과.		
B179, 181-0	Ian Stevenson		01/16/0	80	Solid			
DMB2224494949282644926666666666666666666666		*********	attes manadas		****	Kersesses and sub		
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	18	0,4	1	mg/Kg	EFA 6020	01/29/08	01/27/08	4134
			A12226644222				~~~~~~~~	

A

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

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			Page 35
Ian Stevenson	Log Number:	08-C944	
Geocon Consultants	Order:	P0367	
3160 Gold Valley Drive #800	Project:	Highway 50 SI/S9300-06-22	Phase 2
Rancho Cordova, CA 95742	Received:	01/22/08	
	Printed:	03/12/08	

#### REPORT OF ANALYTICAL RESULTS

			5	Sample	d				
Sample Description	Sampled By			Date 0		Matrix			
		للأخر للزعاية بالبلاط بجري بي	saase r						
B179, 181-1	Ian Stevenson		. (	)1/16/	080	Solid			
	seperatory dremm				*****	وم حرك بحك بحك بحك الألك			
Analyte	Result	DLR	Dilut Fact		Units	Method	Date Analyzed	Date Prepared	Batch
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								riepateu	
Lead	1.2	0.4		1	mg/Kg	EPA 6020	01/29/08	01/27/08	4136

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

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				A. 4	Page	36		•
Ian Stevenson		Log Number:	08-C945					
Geocon Consultants		Order:	P0367					
3160 Gold Valley Drive #800	÷	Project:	Highway 50	SI/S9300-06-22	Phase	2	-	
Rancho Cordova, CA 95742		Received:	01/22/08					
		Printed;	03/12/08					

REPORT OF ANALYTICAL RESULTS

			Sample					
Sample Description	Sampled By		Date @	Time	Matrix			
							محدودها جرز تنز ابن مدردا زن کا کا	*****
B179, 181-2	Ian Stevenson		01/16/	086	Solid			
***************************************	학학원3방지당급북분역면적3						===020066==	
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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				Page	37
Ian Stevenson	Log Number:	08-C946		-	
Geocon Consultants	Order:	P0367			
3160 Gold Valley Drive #800	Project:	Highway 50	SI/S9300-06-22	Phase	2
Rancho Cordova, CA 95742	Received:	01/22/08			
	Printed:	03/12/08			

REPORT OF ANALYTICAL RESULTS

			Sampled					
Sample Description	Sampled By		Date @	Time	Matrix			
		استخلص ألدار ومناهدا فأخ متراجعا ومسهور ور		********				
PC 8	Ian Stevenson	•	01/15/0	B@13:30	Solid			
	· wasessaasaas							8=630EB
Analyte	Result	DLR ·	Dilution	Units	Method	Date	. Date	Batch
			Factor			Analyzed	Prepared	
Chromium	240	0.4	1	mg/Kg	ЕРА 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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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Page 38 Log Number: 08-C947 P0367 Order: Project: Highway 50 SI/S9300-06-22 Phase 2 Received: 01/22/08 03/12/08 Printed:

REPORT OF ANALYTICAL RESULTS

			Sampled					
Sample Description	Sampled By		Date @	Time	Matrix			
	بخاصي ويووركني واوتمعتك	بعدجية بفترجد إعاصاها فالمتكابة	ndram determine					1 mil 1 mil 1 mil 2 m
PC 9	Ian Stevenson		01/15/0	8015:55	Solid			• .
	20080000000000000000000000000000000000		esase eseces				70322222 <u>2</u> 22	
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
			Factor		and a second second second	Analyzed	Prepared	

Chromium	230	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/00	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.

Lab Director, Michael Ng





			Page	39
Ian Stevenson	Log Number:	08-C948		
Geocon Consultants	Order:	P0367		
3160 Gold Valley Drive #800	Project:	Highway 50 SI/S9300-06-22	Phase	2
Rancho Cordova, CA 95742	Received:	01/22/08		
	Printed:	03/12/08		

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	, Haquessease=		Time	Matrix			مطلطهی:
PC 10	Ian Stevenson		01/16/	08011;55	Solid			
		manasses a see a	***** ******	enhessen ccom	чченаскаторальна	위 저 파리 티 다 다 다 다 다 다 다		an a
Analyte	Result	DLR	Dilution	Units	Method	Date	Date	Batch
			Factor		·	Analyzed	Prepared	
Chromium	120	D,4	1	mg/Kg	EFA 6020	01/29/08	01/27/08	4130
Lead	510	0.4	1	mg/Kg	EPA 6020	01/29/08	01/27/08	4130

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

DRC'

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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 08-C949 Order: P0367 Project: Highway Received: 01/22/08 Printed: 03/12/08 Page 40

Highway 50 SI/S9300-06-22 Phase 2 01/22/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sample Date 0		Matrix			
B187, 108, 189, 190-0	Ian Stevenson		01/16/0	80	Solid			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date	Date Prepared	Batch
Mercury	Not Detected	0,04	1	mg/Kg	EPA 7471	01/24/08	01/23/08	3860
Antimony	Not Detected	0.4	1 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	ng/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	ng/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.

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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 08-C950 Order: P0367 Project: Highway Received: 01/22/00 Printed: 03/12/00

: 08-C950 P0367 Highway 50 SI/S9300-06-22 Phase 2 01/22/08 03/12/08

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REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date @		Matrix			
B187, 188, 189, 190-1	lan Stevenson		01/16/0		Solid			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date	Date Prepared	Batch
Mercury	Not Detected	0.04	1	mg/Kg	. EPA 7471	01/24/06	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	01/25/0B	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	9.7	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Cobalt	16	0.4	1	ma/Ka	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	EFA 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	ī	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.

Lab Director, Michael Ng



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

Log Number: 08-C951 Order: Project: Received: Printed:

Páge 42 P0367 Highway 50 SI/S9300-06-22 Phase 2 01/22/08 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date 9		Matrix			
B187, 168, 189, 190-2	Ian Stevenson		01/16/0	80	Solid			
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date	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
Bariun	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 Datected	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	mq/Kq	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	EFA 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	160	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.

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Ian Stevenson Log Number: 08-C952 Geocon Consultants Order: P0367 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Project: Received: 01/22/08 Printed:

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Highway 50 SI/S9300-06-22 Phase 2 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date @		Matrix			
B191, 192, 193, 194-0	Ian Stevenson		01/16/0	80 80	Solid	그리퍼야 4 11 12 12 12 12 12 12 12 12 12 12 12 12		
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	3680
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	ma/Ka	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	j	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	ī	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Selenium	Not Detected	0.5	ī	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	
Thallium	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Vanadium	100	0.4	ĩ	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Zinc	50	4	i	mg/Kg	EPA 6020	01/25/08	01/24/08	4035 4035

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

Lab Director, Michael Ng



Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742	Received: 01/		Page 44 Phase 2	
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REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date §		Matrix			
B191, 192, 193, 194-1	Ian Stevenson		01/16/0	80	Solid			
Analyte	Result	DLR	Dilution	Units	Method	Date	Date Prepared	Batch
Mercury Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium Silver Thallium Vanadium Zinc	Not Detected Not Detected 0.6 37 Not Detected 32 18 92 1.3 Not Detected 28 Not Detected Not Detected 140 35	0.04 0.4 0.4 0.4 0.4 0.4 0.4 0.4		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA 7471 EPA 6020 EPA 6020	01/24/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08 01/25/08	01/23/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08 01/24/08	3980 4035 4035 4035 4035 4035 4035 4035 403

DLR - Detection Limit for Reporting, Results of "Not Detected" below DLR

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: Project: Received: Printed:

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P0367 Highway 50 SI/S9300-06-22 Phase 2 01/22/08 03/12/08

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sampled Date 0	Matrix				
B191, 192, 193, 194-2	Ian Stevenson		01/16/0	80 .	Solid			12474-27
Analyte	Result	DLR	Dilution Factor	Units	Method	Date	Date	Batch
Mercury	Not Detected	0.04	1	mg/Kg	EPA 7471	01/24/08	01/23/06	3680
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	i	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Copper	110	0.4	ī	mg/Kg	EPA 6020	01/25/08	01/24/08	4035
Lead	1.9	0.4	ī	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	
Selenium	Not Detected	0.5	ī	mg/Kg	EPA 6020	01/25/08	01/24/08	4035 4035
Silver	Not Detected	0.4	1	mg/Kg	EPA 6020	01/25/08	01/24/08	
Thallium	Not Detected	0.4	· 1	alg/Kg	EPA 6020	01/25/08	01/24/08	4035
Vanadium	150	0.4	î	mg/Kg	EPA 6020	01/25/08		4035
Zinc	30	4	1	mg/Kg	EPA 6020		01/24/08 01/24/08	4035 4035

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

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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	ng/Kg	4035
Arsenic	EPA 6020	< 0.4	mu/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	ng/Kg	4130
Cobalt	EPA 6020	< 0.4	ng/Kg	4035
Copper	EPA 6020	< 0.4	mg/Kg	4035
Load	EPA 6020	< 0,4	mg/Kg	4035
Lead	EPA 6020	< 0.4	ng/Kg	4110
Lead	EPA 6020	< 0.4	mg/Kg ·	4110
Lead	EPA 6020	< 0.4	mg/Kg	4116
Lead	EPA 6020	< 0.4	ng/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
Molybdenus	EPA 6020	< 0.4	mg/Kg	4035
Nickél	EPA 6020	< 0.4	mg/Kg	4035
Selenium	EPA 6020	< 0.5	mg/Kg	4035
Silver	EPA 6020	< D.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	66%	8.3	mg/Kg	56 - 148	3680
Antimony	EPA 6020	918	90	mg/Kg	10 - 120	4035
Arsenic	EPA 6020	100%	130	mg/Kg	60 - 140	4035
Barium	EPA 6020	103%	320	ma/Ka	60 - 140	4035
Beryllium	EPA 6020	107%	90	mg/Kg	60 - 140	4035
Cadmium	EPA 6020	1148	66	mg/Kg	60 - 140	4035
Chromium	EPA 6020	103%	73	mg/Kg	60 - 140	4035
Chromium	EPA 6020	948	73	mg/Kg	60 - 140	4130
Cobalt	EPA 6020	1038	73	mg/Kg	60 - 140	4035
Copper	EPA 6020	998	68	mg/Kg	60 - 140	4035
Lead	EPA 6020	108%	130	mg/Kg	60 - 140	4035
Lead	EPA 6020	96%	130	mg/Kg	60 - 140	4110
Lead	EPA 6020	988	130	mg/Kg	60 - 140	4116
Lead	EPA 6020	98% '	130	ma/Ka	60 - 140	4122
Lead	EPA 6020	99%	130	ng/Kg	60 - 140	4130
				-		1.1



Quality Control Results

Order No.: P0367

Sample Duplicate

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
Lead	EPA 6020	998	130	mg/Kg	60 ~ 140	4132
Lead	EPA 6020	99%	130	mg/Kg	60 - 140	4134
Lead	EPA 6020	99%	130	ng/Kg	60 - 140	4136
Molybdenum	EPA 6020	103%	49	mg/Kg	60 - 140	4035
Nickel	EPA 6020	1028	56	mg/Kg	60 - 140	4035
Selenium	EPA 6020	1168	160	mg/Kg	60 - 140	4035
Silver	EPA 6020	106%	100	mg/Kg	60 - 140	4035
Thallium	EPA 6020	698	170	mg/Kg	60 - 140	4035
Vanadium	EPA 6020	1028	83	mg/Kg	60 - 140	4035
Zinc	EPA 6020	978	180	mg/Kg	60 - 140	4035

Matrix Spike/Matrix Spike Duplicates

······································		MS	MSD	Matrix	Spike			RPD	
Analyte	lethod	Rec.	Rec.	RPD Sample	Amount	Units	Recovery Limits	Limit	Batch
Mercurv E	PA 7471	123%	1138	8 08-0690	0.8	mg/Kg	. 60 - 140	30	3880
			1130	08-C960	50		10 - 120	30	4035
		35%	3			mg/Kg			
	PA 6020	84%	•	08-C960	50	mg∕Kg	60 - 140	30	4035
	PA 6020	968		08-C960	50	mg/Kg	60 - 140	30	4035
Beryllium E	PA 6020	1018		08-C960	50	mg/Kg	60 - 140	30	4035
Cadmium E	A 6020	1048		08-C960	50	mg/Kg	60 - 140	30 1	4035
Chromium E	A 6020	1148		08-C960	50	mg/Kg	60 - 140	30	4035
Cobalt E	A 6020	92%		08-C960	50	mg/Kg	60 - 140	30	4035
Copper E	A 6020	87%		08-C960	50	mg/Kg	60 - 140	30	4035
	A 6020	1768		08-C960	. 50	mg/Kg	60 - 140	30	4035
-Lead El	A 6020	101%		08-C890	50	mg/Kg	60 - 140	30	4110
	A 6020	1388		08-C901	. 50	mg/Kg	60 - 140	30	4116
Lead El	A 6020	988		08-C911	50	mg/Kg	60 - 140	30	4116
	A 6020	110%		08-C923	50	mg/Kg	60 - 140	30	4132
Lead Ei	A 6020	99%		08-C934	50	mg/Kg	60 - 140	30	4134
Lead El	A 6020	106%		08-C945	50	mg/Kg	60 - 140	30	4136
Molvbdenum El	A 6020	88%		08-C960	50	mg/Kg	60 - 140	30	4035
Nickel El	A 6020	108%		08-C960	50	mg/Kg	60 - 140	30	4035
	A 6020	1038		08-C960	200	mg/Kg	60 - 140	30	4035
Silver . EI	A 6020	988		08-C960	50	mg/Kg	50 - İ30	30	4035
Thallium EI	Å 6020	96 8		08-C960	50	mg/Kg	60 - 140	30	4035
Vanadium EF	A 6020	92%		0B-C960	50	mg/Kg	60 - 140	30	4035
Zinc EF	A 6020	968		08-C960	50	mg/Kg	60 ~ 140	30	4035

Analyte	Method	Sample ID	Sample Value	Sample Duplicate	RPD	Units	RPD Limit	Batch
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рН	EPA 9045	08-C937	7.7	8.2	6	pH units	10	4186
Antimony	EPA 6020	Q8-C961	< 0.4	< 0.4	0	mg/Kg '	30.	4035
Arsenic	EPA 6020	08-C961	< 0.4	< 0.4	Q	mg/Kg	30.	4035
Barium	EPA 6020	08-C961	65	66	2	mg/Kg	30.	4035
Beryllium	EFA 6020	08-C961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Cadmium	EPA 6020	08-C <u>9</u> 61	< 0.4	< 0.4	0	mg/Kg	30.	4035
Chromium	EPA 6020	08-C961	160	160	2	mg/Kg	30.	4035



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	ó,	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	10	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	08-0961	< 0.4	< 0.4	0	mg/Kg	30.	4035
Thallium	EPA 6020	08-C961	< 0.4	< 0.4	Ö	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

REMARKS PLOSE 2 SAMBLES COMPOSITIED & HEMDEREDIZED VILLY VIZ MER
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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	401 phone (805) 545-9838 fax (805) 545-0107 www.cr	reekiabs.com sales@creeklab	S. com Order #YUJU 50F9
Client Name	Contact - lan Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other Normal TAT
Address City City Bancho Cordova	State CA Zip CA 95742	Fax916-852-9132	Cell 916-869-4308 Beeper
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Bill to: (if different from above)	Address City		State Zip
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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	01 phone (805) 545-9838 fax (805) 545-0107 www.c	creeklabs.com sales@creeklabs	com viver # r u w
 rlease ruint ni ren Client Name Consultante 	Contact Ian Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other Normal TAT
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[41] Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9	1 phone (805) 545-9838 fax (805) 545-0107 www.	838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com	10fg
Please Print in Pen Client Name	Contact – Ian Stevenson	Phone 916-852-9118	Due Date: 24Hr 48Hr Other Normal TAT
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Page 1

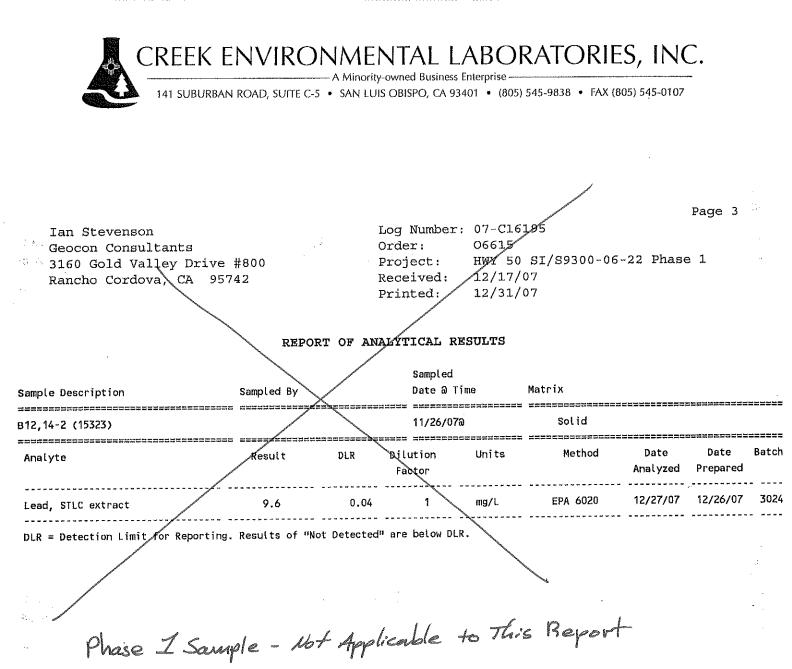
Log Number: 07-C16193 Ian Stevenson 06615 Order: Geocon Consultants HWY 50 SX/S9300-06-22 Phase 1 Project: 3160 Gold Valley Drive #800 12/17/07 Received: Rancho Cordova, CA 95742 12/31/07 Printed: REPORT OF ANALYTICAL RESULTS Sampled Date @ Time Matrix Sampled By Sample Description _____ ____________ 11/26/07a Solid B1,3,5,7-0 (15312) Date Batch Dilution Units Method Date DLR Result Analyte Analyzed Prepared Factor 12/26/07 3024 EPA 6020 12/27/07 mg/L 2.6 0.04 Lead, STLC extract _____ DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

Phase I Sample - Not Applicable To This Report

Lab Director, Michael Ng

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CREEK ENVIRONMENTAL LABORATORIES



Lab Director, Michael Ng



Page 4 Log Number: 07-C16196 Ian Stevenson 06615 Order: Geocon Consultants HWY 50 SI/S9300-06-22 Phase 1 Project: 3160 Gold Valley Drive #800 12/17/07 Rancho Cordova, CA 95 42 Received: 12/32/07 Printed: REPORT OF ANALYTICAL RESULTS Sampled Date @ Time Matrix Sampled By Sample Description Solid 11/26/07a B43,44,45-0 (15342) 222 _____ égeezzzze ______ Date Batch Method Date Units DLR Dilution Result Analyte Prepared Analyzed Factor ____________ mg/L EPA 6020 12/27/07 12/26/07 3024 0.04 1 Lead, STLC extract 8.0 ------DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR. Phase I Sample - Not Applicable To this Report

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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742 Log Number: 07-C16197 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 led By Date @ Time Ma		Matrix				
B50,52,54,56-0 (15352)		11/27/07a		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.

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

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REPORT OF ANALYTICAL RESULTS

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Sample Description S	Sampled By		Date @	Time	Matrix			
B59,61,63,65-0 (15361)			 11/27/0	192222222222 170	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.

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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-C16199 Order: 06615 HWY 50 SI/S9300-06-22 Phase 1 Project: Received: 12/17/07 Printed: 12/31/07

Page 7

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Sample Date a		Matrix			
B66,68,70,72-0 (15364)		**********	11/27/	 07a	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.

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				Page	1	
Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 Rancho Cordova, CA 95742	Log Number: Order: Project: Received: Printed:	P1138	SI/S9300-06-22	Phase	2	

REPORT OF ANALYTICAL RESULTS

			Sample	d				
Sample Description	Sampled By		Date a	Time ====================================	Matrix			
B151, 153, 155, 161-0 (925)	lan Stevenson		01/15/	08a	Sotid ·			
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.

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

 Page 2

 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 ລ		Matrix			
B151, 153, 155, 161-2 (927)	Ian Stevenso		01/15/0	8a 	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.

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CREEK ENVIRONMENTAL LABORATORIES

-2-24



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Ian Stevenson Geocon Consultants 3160 Gold Valley Drive #800 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

Page 3

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By		Date a	Time	Matrix			
B163, 165, 167, 169-0 (931)	Ian Stevenso		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.

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CREEK ENVIRONMENTAL LABORATORIES

CREEK ENVIRONMENTAL LABORATORIES, INC. - A Minority-owned Business Enterprise -



Lead, STLC extract

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Page 4 Quality Control Results Order No.: P1138 Laboratory Reagent Blank Method Results Units Batch Analyte 5305 EPA 6020 < 0.04 mg/L Lead, STLC extract r^{*} Laboratory Known Analysis (LCS) Batch Recovery Spike Amount Units Recovery Limits Method Analyte _____ _____ _ _ _ _ _ _ _ _ _ _ 5305 75 - 125 100% 5.0 mg/L EPA 6020 Lead, STLC extract Matrix Spike/Matrix Spike Duplicates RPD Spike Matrix MS MSD Recovery Limits Limit Batch Amount Units RPD Sample Rec. Rec. Method Analyte ____ --------5305 75 - 125 20 1 08-C2982 5.0 mg/L EPA 6020 100% 98% Lead, STLC extract Sample Duplicate Sample Sample Duplicate RPD Units RPD Limit Batch Value Sample ID Analyte Method . . . _____ 5305 20. 3 mg/L 5.5 5.7 EPA 6020 08-C2981

Creek Environmental Laboratories, Inc.	al 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	m Order # 1/138
 Please Print in Pen 		LUFT EDF Custom EDD	
Client Name 6000	Contact IAN StEVENSUN	6	Due Date: 24Hr 48Hr Other Normal TAT
Address / City	State Zip		
Project Name/Number		PO#	Copies To:
Bill to: (if different from above)	Address	City	State Zip
Sampler Name (Print)	Comments:		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid
	Date/Time Sampled Analysis	# of Matrix Bottles Prese	Preservative / Type Bottles Creek Lab Sample #
BIST, 153, 155, 161-0 (925)	H15-08 STIC PS		
8157,153,155,161-2(927)	l 80-51-1		2862
5163, 165, 167, 169-0(931)	<u>-1-16-08</u>		5862
RELINQUISHED BY (Siam) (Print)	DATE/TIME (Oreanization) (Sign)	RECEIVED BY (Print)	(Organization)
	24-0-5-E	Thenself Jugy W	JUDY Wenswellaboratories, Inc.
FOR LAB USE ONLY. Shipping Method. Clienty Lab/ Courters	Lab/ Courter: Skimple	Conditions Temp	Intact: V/ N Castody Sealed: Y/N
REMARKS & M W RESULTS	to stevensourpequer	rine. com	

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2235 Polvorosa Avel, Suite 230, San Leandro, CA 94577 Phone: (510) 895-3675 Fax: (510) 895-3680 Email: <u>miluitaslab@emsi.com</u>

0 3 5	an Stevenson Geocon Consultants 160 Gold Valley Dr. Suite 800		Customer ID: Customer PO: Received: EMSL Order:	GECN80 S9300-06-22 01/22/08 11:30 AM 090800637
Fax:	Rancho Cordova, CA (916) 852-9132	Phone: (916) 852-9118	EMSL Proj:	S9300-06-**
Project:	S9300-06-22, Highway 50	SI, Phase 2	Analysis Date: Report Date:	2/4/2008 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

				<u>Non</u>	-Asbestos	<u>Asbestos</u>
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
NOA1	NOA16-0, 17-0, 18-0,	Gray			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0001	19-0, 20-0, 182-0, 181-0	Non-Fibrous				
		Homogeneous				
NOA2	NOA18-2, 20-2, 182-	Yellow			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0002	2, 181-2	Non-Fibrous				
		Homogeneous			100.00% Non-fibrous (other)	
NOA3 COMPOSITE	NOA50-0, 51-0, 52-0, 177-0, 178-0, 179-0, 180-0	Brown Non-Fibrous				None Detected
090800637-0003	100-0	Homogeneous				
NOA4	NOA50-2, 51-2, 52-2,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0004	177-2, 178-2, 179-2, 180-2	Non-Fibrous				None percettu
er.20.		Homogeneous		iër .	·····	
NÖA5	NOA53-0, 54-0, 55-0,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0005	56-0, 174-0, 175-0, 176-0	Non-Fibrous				
· · · · · · · · · · · · · · · · · · ·		Homogeneous			100.00% Non-fibrous (other)	
	NOA55-2, 176-2	Brown			100.00% Non-librous (other)	None Detected
COMPOSITE 090800637-0006		Non-Fibrous Homogeneous				
NOA7	NOA57-0, 58-0, 59-0,	Tan			100.00% Non-fibrous (other)	Nene Detected
COMPOSITE	60-0, 61-0, 170-0,	Non-Fibrous				None Detected
090800637-0007	171-0. 172	NOT FIDIOUS				
	• •• · · · · · · · · · · · · · · · · ·	Homogeneous				
NOA8	NOA57-2, 58-2, 170-	Tan			100.00% Non-fibrous (other)	None Detected
	2, 171-2, 172-2, 173-2	Non-Fibrous				
090800637-0008		Homogeneous				
					56	
Analyst(s)		_				
		-			Baojia Ke, Laboratory	Manager
Jason Mcgriff (11)					or other approved sig	

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2235 Polvorosa Avel, Suite 230 San Leandro, CA 94577 Phone (Suite95-307) Fib. (310) 895 3680 Emial mit<u>elastabilizanst.com</u>

()	an Stevenson Geocon Consultants 3160 Gold Valley Dr. Suite 800 Rancho Cordova, CA		Customer ID: Customer PO: Received: EMSL Order:	GECN80 S9300-06-22 01/22/08 11:30 AM 090800637
Fax: Project:	(916) 852-9132 S9300-06-22, Highway 50	Phone: (916) 852-9118 SI, Phase 2	EMSL Proj: Analysis Date: Report Date:	S9300-06-** 2/4/2008 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

· ·				No	n-Asbestos	<u>Asbestos</u>
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
NOA9	NOA62-0, 63-0, 64-0,	Brown		·	100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0009	167-0, 168-0, 169-0	Non-Fibrous				
		Homogeneous				
NOA10	NOA62-2, 63-2, 64-2,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0010	167-2, 168-2, 169-2	Non-Fibrous				
		Homogeneous				
NOA11	NOA65-0, 66-0, 67-0,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0011	68-0, 162-0, 163-0, 164-0. 16	Non-Fibrous				
		Homogeneous				
NOA12	NOA66-2, 67-2, 68-2,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0012	162-2, 163-2, 164-2, 165-2, 1	Non-Fibrous				
		Homogeneous				
NOA13	NOA69-0, 70-0, 71-0,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0013	72-0, 154-0,155- 0.160-0.161-0	Non-Fibrous				
		Homogeneous				
NOA14	NOA69-2, 70-2, 71-2,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE	72-2, 154-2, 155-2, 161-2	Non-Fibrous	4	ta Pr		
090800637-0014		Homogeneous	2 - A			
NOA15	NOA73-0, 74-0, 75-0,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0015	76-0, 151-0, 152-0, 153-0	Non-Fibrous				
		Homogeneous				
NOA16	NOA73-2, 74-2, 75-2,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800637-0016	76-2, 151-2, 153-2	Non-Fibrous				
		Homogeneous				
					٨	
Analyst(s)					- C-	
Jason Mcgriff (11)					Baojia Ke, Laboratory	Manager
Yulia Grozman (8)					or other approved si	

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EMSL Analytical. Inc



2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577 Phone: (510) 895-3675 Fax: (\$10) 895-3680 Email: miloitastab@amst.com

()	an Stevenson Geocon Consultants 3160 Gold Valley Dr. Suite 800 Rancho Cordova, C/			Customer ID: Customer PO: Received: EMSL Order:	GECN80 S9300-06-22 01/22/08 11:30 AM 090800637
Fax: Project:	(916) 852-9132 S9300-06-22, Highway 50	Phone: (916) 85 SI, Phase 2	52-9118	EMSL Proj: Analysis Date: Report Date:	S9300-06-** 2/4/2008 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

Sample Location Appearance % Fibrous % Non-Fibrous % Type NOA17 NOA77-0, 78-0, 79-0, 78-0, 79-0, 80-0, 147-0, 148-0, 147-0, 148-0, 147-0, 148-0, 147-0, 148-0, 147-0, 148-0, 150-0, 148-0, 150-0, 148-0, 150-0, 148-0, 150-0, 148-0, 150-0, 148-0, 150-0, 148-0, 150-0, 148-0, 150-0, 148-0, 150-0, 148-0, 142-0, 143-0, 148-0, 142-0, 143-0, 148-0, 142-0, 143-0, 148-0, 142-0, 143-0, 148-0, 148-0, 142-0, 143-0, 148-0, 148-0, 142-0, 143-0, 148-0, 148-0, 142-0, 143-0, 148-0, 148-0, 148-0, 142-0, 143-0, 148-0, 14			No			-Asbestos	<u>Asbestos</u>	
COMPOSITE B0000057.0017 80.0. 147.0.148- 0.149.0.150-0 Non-Fibrous Homogeneous VDA18 D000057.0018 NOA72-2, 78-2, 79-2, Brown Non-Fibrous Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected VDA18 D000057.0018 NOA81-0, 82-0, 83-0, Brown Non-Fibrous Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected VDA19 D000057.0018 NOA81-0, 82-0, 83-0, Brown NOA20 Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected VDA20 D000057.0019 NOA81-2, 82-2, 83-2, Brown NOA21 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA21 NOA85-0, 86-0, 87-0, Brown NOA221 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA221 NOA85-0, 86-0, 87-0, Brown NOA22 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA-65-2, 86-2, 87- 2, 140-2, 141-0 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA85-0, 96-0, 91-0, 134-0, 135-0, 136-0, 137-0 Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 134-0, 135-0, 136-0, 137-0 Brown Non-Fibrous 100.00% Non-fibrous (other)	Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре	
Bookest2.0077 0.149-0.150-0 Homogeneous Homogeneous Homogeneous Non-Fibrous (other) None Detected 00A18 NOA72-2, 78-2, 79-2, 87-2, 79-2, 87-2, 79-2, 87-2, 79-2, 19-2, 150-2 Brown 100.00% Non-fibrous (other) None Detected 00MPOSITE 80-2, 147-2, 148-2, 150-2 Homogeneous 100.00% Non-fibrous (other) None Detected 00MPOSITE 84-0, 142-0, 142-0, 143-0, 144 Non-Fibrous 100.00% Non-fibrous (other) None Detected 00A20 NOA81-0, 82-0, 88-0, 87-0, 79-2, 89-2, 73-0 Tan 100.00% Non-fibrous (other) None Detected 00A21 NOA85-0, 86-0, 87-0 Tan Non-Fibrous Non-Fibrous None Detected 00M00SITE 88-0, 138-0, 139-0 Tan 100.00% Non-fibrous (other) None Detected 00M221 NOA-85-0, 86-2, 87-2,	IOA17	NOA77-0, 78-0, 79-0,	Brown			100.00% Non-fibrous (other)	None Detected	
Hornogeneous Hornogeneous IOA18 NOA72-2, 78-2, 79-2, 8 Brown 100.00% Non-fibrous (other) None Detected S0MPOSITE 80-2, 148-2, 148-2 Homogeneous Homogeneous 100.00% Non-fibrous (other) None Detected VOA19 NOA81-0, 82-0, 83-0, 84-0, 142-0, 144-0, 144-0, 143-0, 144-0, 143-0, 144-0, 143-0, 144-0, 143-0, 137-0, 100.00% Non-fibrous (other) None Detected VOA23 NOA89-0, 90-0, 91-0, 13-0, 137-0, 137-0, 137-0, 137-0, 140-0, 137-0, 1			Non-Fibrous					
Informageneous Information Information <thinformation< th=""> Information Informa</thinformation<>		0.149-0.150-0	14		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
DMPOSITE B00000637-0078 80-2, 147-2, 148- 2, 149-2, 150-2 Non-Fibrous NOA19 NOA81-0, 82-0, 83-0, 0, 142-0, 143-0, 144- 0, 142-0, 143-0, 144- Non-Fibrous Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA20 NOA81-2, 82-2, 83-2, 2, 144-2, 146-2 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA21 NOA85-0, 86-0, 87-0, 2, 144-2, 146-2 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA21 NOA85-0, 86-0, 87-0, 2, 144-2, 146-2 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA85-0, 86-0, 87-0, 2, 144-2, 141-2 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA85-2, 86-2, 87- 2, 140-2, 141-2 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 30000037-0027 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-0, 90-0, 91-0, 30000037-0027 Taru 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2 Yellow Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2 Yellow Non-Fibrous 100.00% Non-fibrous (other)		NOA700 700 700	Homogeneous		,	100.00% Non fibrous (other)		
B00000037-007B 2.149-2.150-2 Hornogeneous VIOA19 NOA81-0, 82-0, 83-0, 0.148-0 Brown 100.00% Non-fibrous (other) None Detected VOA20 NOA81-2, 82-2, 83-2, 0.148-0 Tan 100.00% Non-fibrous (other) None Detected VOA20 NOA85-0, 85-0, 87-0, 2.144-2.146-2 Tan 100.00% Non-fibrous (other) None Detected VOA21 NOA85-0, 85-0, 87-0, 2.144-2.146-2 Tan 100.00% Non-fibrous (other) None Detected VOA22 NOA85-0, 86-0, 87-0, 0.140-0 141-0 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected VOA22 NOA-85-2, 86-2, 87- 0.140-0 141-0 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected VOA22 NOA-85-2, 86-2, 87- 0.140-2 141-2 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected VOA23 NOA89-0, 90-0, 91-0, 134-0, 135-0, 136-0, 134-0, 135-0, 136-0, 134-0, 134-0, 136-0, 134-0, 136-2, 137-2, 140-0 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile			BIOWE			100.00% Non-horous (other)	None Detected	
Homogeneous NOA810 NOA81-0, 82-0, 83-0, 142-0, 143-0, 144 Non-Fibrous 100.00% Non-fibrous (other) None Detected 00000037-0079 0.146-0 Homogeneous 100.00% Non-fibrous (other) None Detected 00420 NOA81-2, 82-2, 193-2 Tan 100.00% Non-fibrous (other) None Detected 0040037-0020 2.144-2.146-2 Homogeneous 100.00% Non-fibrous (other) None Detected NOA21 NOA85-0, 86-0, 87-0, 88-0, 138-0, 139- Tan 100.00% Non-fibrous (other) None Detected 00800057-0021 NOA-85-2, 86-2, 87- Tan 100.00% Non-fibrous (other) None Detected NOA222 NOA-85-2, 86-2, 87- Tan 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 135-0, 136-0, 136-0, 137-0, 135-0, 137-0, 137-0, 137-0, 137-0, 137-0, 137-0, 137-0, 137-0, 137-0, 137-0, 137-0, 140-0, 137-0, 140-0,	· · ·		Non-Fibrous					
NON2000/INCOMPOSITE 84-0,142-0,143-0,144 Non-Fibrous NOA20 NOA81-2, 82-2, 83-2, 20MPOSITE Tan 100.00% Non-fibrous (other) None Detected NOA21 NOA85-0, 86-0, 87-0, 20MPOSITE Non-Fibrous Non-Fibrous Non-Fibrous NOA21 NOA85-0, 86-0, 87-0, 0.140-0.141-0 Non-Fibrous Non-Fibrous Non-Fibrous NOA22 NOA-85-2, 86-2, 87-0, 0.140-0.141-0 Non-Fibrous Non-Fibrous Non-Fibrous NOA22 NOA-85-2, 86-2, 87-0, 0.140-0.141-0 Tan 100.00% Non-fibrous (other) None Detected NOA23 NOA89-2, 90-2, 91-2, 134-0, 135-0, 136-0, 137-0 Tan 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134-2 Yellow Non-Fibrous Non-Fibrous NOA24 NOA89-2, 91-2, 134-2 Yellow Non-Fibrous 00.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134-2 Yellow Non-Fibrous 100.00% Non-fibrous (other) <0.25% Chrysotile			Homogeneous					
Borenous Information Monogeneous Homogeneous NOA20 NOA81-2, 82-2, 193- 20MPOSITE S4-2, 192-2, 193- 2, 144-2, 146-2 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA21 NOA85-0, 86-0, 87-0, 20MPOSITE Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA-85-2, 86-2, 87- 20MPOSITE Tan 0.140-0 141-0 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA-85-2, 86-2, 87- 2, 88-2, 182-2, 139- 2, 140-2, 141-2 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 137-0 Brown 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 137-0 Yellow Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 137-0 Yellow Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow Non-Fibrous 100.00% Non-fibrous (other) <0.25% Chrysotile	NOA19	NOA81-0, 82-0, 83-0,	Brown			100.00% Non-fibrous (other)	None Detected	
Homogeneous NOA20 NOA81-2, 82-2, 83-2, 2.144-2, 146-2 Tan 100.00% Non-fibrous (other) None Detected NOA21 NOA85-0, 86-0, 87-0, 86-0, 87-0, 86-0, 87-0, 88-0, 138-0, 138-0, 138-0, 138-0, 138-0, 138-0, 139-0, 09800637-0021 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA-85-2, 86-2, 87-0, 70-0000 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA-85-2, 86-2, 87-0, 70-0000 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA-85-2, 86-2, 87-0, 71-0 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 136-0, 137-0 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134-2 Homogeneous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134-2 Yellow 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134-2 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile	COMPOSITE		Non-Fibrous					
NOA20 DOMPOSITE 9998906937-0020 NOA81-2, 82-2, 83-2, 12an 84-2, 192-2, 193- 2, 144-2, 146-2 Tan Non-Fibrous Homogeneous 100.00% Non-fibrous (other) None Detected NOA21 DOMPOSITE 9998906937-0020 NOA85-0, 86-0, 87-0, 0, 140-0, 141-0 Tan Non-Fibrous Homogeneous 100.00% Non-fibrous (other) None Detected NOA22 DOMPOSITE 999806637-0021 NOA-85-2, 86-2, 87- 2, 140-2, 141-2 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 DOMPOSITE 2, 88-2, 182-2, 137- 200MPOSITE 2, 136-2, 137-0 Non-Fibrous Homogeneous 100.00% Non-fibrous (other) None Detected NOA23 DOMPOSITE 2, 136-2, 137-2 Non-Fibrous Homogeneous Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA23 DOMPOSITE 2, 136-2, 137-2 Non-Fibrous Homogeneous 100.00% Non-fibrous (other) None Detected NOA24 NOA59-0, 90-0, 91-0, 137-0 Brown Homogeneous 100.00% Non-fibrous (other) None Detected NOA44 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Non-Fibrous 100.00% Non-fibrous (other) <0.25% Chrysotile	90800637-0019	0.146-0	Homogeneous					
NOA20 J900800637-0020 84-2, 192-2, 193- 2.144-2.146-2 Non-Fibrous Non-Fibrous Homogeneous NOA21 NOA85-0, 86-0, 87-0, 20MPOSITE Tan 100.00% Non-fibrous (other) None Detected NOA22 NOA-85-2, 86-2, 87- 2, 140-2, 141-2 Tan 100.00% Non-fibrous (other) None Detected NOA22 NOA-85-2, 86-2, 87- 2, 88-2, 182-2, 139- 2, 140-2, 141-2 Tan 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 137-0 Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile		NOA81.2 82-2 83-2	_			100.00% Non-fibrous (other)	Neno Detected	
Dependence 2.144-2.146-2 Non-Fibrous NOA21 NOA85-0, 86-0, 87-0, 7an 100.00% Non-fibrous (other) None Detected COMPOSITE 88-0, 138-0, 139- 0.140-0.141-0 Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA-85-2, 86-2, 87- 2, 140-2, 141-2 Tan 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 137-0 Brown 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Brown 100.00% Non-fibrous (other) None Detected NoA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile						,,	None Detected	
NOA21 COMPOSITE 990800637-0021 NOA85-0, 86-0, 87-0, 140-0 141-0 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA22 NOA22 NOA-85-2, 86-2, 87- 2, 88-2, 182-2, 139- 2, 140-2 141-2 Tan Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 137-0 Brown Non-Fibrous Non-Fibrous Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 COMPOSITE NOA89-2, 91-2, 134- 2, 135-0, 136-0, 137-0 Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 COMPOSITE NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow Non-Fibrous 100.00% Non-fibrous (other) <0.25% Chrysotile								
COMPOSITE p90800637-0021 88-0, 138-0, 139- 0.140-0 141-0 Non-Fibrous NOA22 COMPOSITE p90800637-0022 NOA-85-2, 86-2, 87- 2, 88-2, 182-2, 139- 2.140-2.141-2 Tan 100.00% Non-fibrous (other) None Detected NOA23 COMPOSITE p90800637-0022 NOA89-0, 90-0, 91-0, 134-0, 135-0, 136-0, 137-0 Brown 100.00% Non-fibrous (other) None Detected NOA24 COMPOSITE p90800637-0023 NOA89-2, 91-2, 134- 137-0 Brown 100.00% Non-fibrous (other) None Detected NOA24 COMPOSITE p90800637-0024 NOA89-2, 91-2, 134- 137-0 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile			Homogeneous					
Non-Fibrous Non-Fibrous NOA22 NOA-85-2, 86-2, 87- 2, 88-2, 182-2, 139- 2, 88-2, 182-2, 139- 2, 140-2, 141-2 Tan 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 208000637-0023 Brown 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, 137-0 Brown 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile						100.00% Non-fibrous (other)	None Detected	
Homogeneous NOA22 NOA-85-2, 86-2, 87- COMPOSITE Tan 100.00% Non-fibrous (other) None Detected Non-Fibrous Non-Fibrous Homogeneous 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, COMPOSITE Brown 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 135-0, 136-0, 090600637-0023 Brown 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile	- +		Non-Fibrous					
NOA22 NOA-85-2, 86-2, 87- COMPOSITE Tan 100.00% Non-fibrous (other) None Detected 000000637-0022 2.140-2.141-2 Non-Fibrous Homogeneous 100.00% Non-fibrous (other) None Detected NOA23 NOA89-0, 90-0, 91-0, COMPOSITE Brown 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile	090800637-0021	0.140-01141-0	Homogeneous					
COMPOSITE 2, 88-2, 182-2, 139- 2.140-2.141-2 Non-Fibrous NOA23 NOA89-0, 90-0, 91-0, COMPOSITE Brown 100.00% Non-fibrous (other) None Detected 134-0, 135-0, 136-0, 090800637-0023 137-0 Homogeneous Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile	NOA22	NOA-85-2, 86-2, 87-				100.00% Non-fibrous (other)	None Detected	
Homogeneous NOA23 NOA89-0, 90-0, 91-0, COMPOSITE Brown 134-0, 135-0, 136-0, 137-0 Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow Non-Fibrous 100.00% Non-fibrous (other) <0.25% Chrysotile		2, 88-2, 182-2, 139-						
NOA23 COMPOSITE NOA89-0, 90-0, 91-0, 134-0, 135-0, 136-0, 137-0 Brown Non-Fibrous 100.00% Non-fibrous (other) None Detected NOA24 NOA89-2, 91-2, 134- COMPOSITE Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile	090800637-0022	2.140-2.141-2						
NOA23 134-0, 135-0, 136-0, 136-0, 137-0 Non-Fibrous 090800637-0023 137-0 Homogeneous NOA24 NOA89-2, 91-2, 134- Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile						100 00% Non fibrous (other)		
137-0 Homogeneous NOA24 NOA89-2, 91-2, 134- 2, 136-2, 137-2 Yellow COMPOSITE 2, 136-2, 137-2 Homogeneous Homogeneous Analyst(s) Homogeneous Jason Mcgriff (11) Baojia Ke, Laboratory Manager er other amerged signatory							None Detected	
Homogeneous NOA24 NOA89-2, 91-2, 134- Yellow 100.00% Non-fibrous (other) <0.25% Chrysotile COMPOSITE 2, 136-2, 137-2 Non-Fibrous Homogeneous Interview Interview <td< td=""><td></td><td></td><td>Non-Fibrous</td><td></td><td></td><td></td><td></td><td></td></td<>			Non-Fibrous					
COMPOSITE 2, 136-2, 137-2 Non-Fibrous Homogeneous Analyst(s) Jason Mcgriff (11) Baojia Ke, Laboratory Manager or other approved signatory			Homogeneous					
Analyst(s) Jason Mcgriff (11) Baojia Ke, Laboratory Manager or other approved signatory		, ,	Yellow			100.00% Non-fibrous (other)	<0.25% Chrysotile	
Homogeneous Analyst(s) Jason Mcgriff (11) Baojia Ke, Laboratory Manager Construction	and a track with a second s	2, 136-2, 137-2	Non-Fibrous					
Analyst(s) Image: Constraint of the second signatory of signatory description of steps approved signatory description of steps approved signatory of signator			Homogeneous	na gara an an an Anga				·
Analyst(s) Image: Constraint of the second standard st			Homogonoouo					
Analyst(s) Jason Mcgriff (11) Baojia Ke, Laboratory Manager or other approved signatory						1-1-		
Jason Mcgriff (11) Baojia Ke, Laboratory Manager	Analyst(s)					1		
or other approved signatory						Baoila Ke, Laborator	v Manager	
Yulia (Grozman (R)	• • • •					, ,		
Yulia Grozman (8)	Yulia Grozman (8) This report relates only	to the samples listed above and or endorsement by NVLAP, NIST	may not be reproduced e	except in full, with	out EMSL's written a	pproval. This report must not be used by the clie	nt to claim product	

samples may contain a steates there by the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM.Samples received in good condition unless otherwise noted.

PLMPointCount-1

EMSL Analytical, Inc 2235 Polygrosa Ave., Suite 230, San Leandro, CA 94577 Phone: (510) 895/3675 (sx. (510) 895-3680 Email: milpitaslab@emsLcom

Geo 3160 Suit	Stevenson con Consulta) Gold Valley e 800 cho Cordova,	Dr.		Customer ID: Customer PO; Received: EMSL Order:	GECN80 S9300-06-22 01/22/08 11:30 AM 090800637	
	6) 852-9132 300-06-22, Highwa	Phone: (91) y 50 SI, Phase 2	6) 852-9118	EMSL Proj: Analysis Date: Report Date:	S9300-06-** 2/4/2008 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	% Туре
NOA25	NOA46-0, 47-0, 48-0,	Brown				100.00%	Non-fibrous (other)	None Detected
COMPOSITE 090800637-0025	49-0	Non-Fibrous						
		Homogeneous						
NOA26	NOA46-2, 47-2, 48-2,	Yellow				100.00%	Non-fibrous (other)	None Detected
COMPOSITE 090800637-0026	49-2	Non-Fibrous						
		Homogeneous						
NOA27	NOA187-0, 188-0,	Brown				100.00%	Non-fibrous (other)	None Detected
COMPOSITE	189-0, 190-0	Non-Fibrous			x			
090800637-0027		Homogeneous	5-		(BC			
NOA28	NOA187-2, 188-2,	Gray				100.00%	Non-fibrous (other)	None Detected
COMPOSITE 090800637-0028	189-2, 190-2	Non-Fibrous						
		Homogeneous						
NOA183	Rock chip	Grayish				100.00%	Non-fibrous (other)	None Detected
090800637-0029		Non-Fibrous Homogeneous						

Analyst(s)

 $e_{\rm MS}({\rm d} k, z_{\rm s}) < z_{\rm s}$

Jason Mcgriff (11) Yulia Grozman (8) hay 5

Baojia Ke, Laboratory Manager or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product "certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM.Samples received in good condition unless otherwise noted.

PLMPointCount-1

THIS IS THE LAST PAGE OF THE REPORT.

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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.

3160 Gold Valley Drive #800	Address1: Address2:	3160 Gold Valley Drive #800
	Address2:	
Rancho Cordova, CA	City, State:	Rancho Cordova, CA
95754	Zip/Post Cod	e: 95754
	Country:	
Ian Stevenson	Attn:	Ian Stevenson
916-852-9118	Phone:	916-852-9118
916-852-9132	Fax:	916-852-9132
stevenson@geoconinc.com	Email:	stevenson@geoconinc.com
	P.O. Number	4
	Ian Stevenson 916-852-9118 916-852-9132 stevenson@geoconinc.com	Country:Ian StevensonAttn:916-852-9118Phone:916-852-9132Fax:stevenson@geoconinc.comEmail:P.O. Number

	MATRIX			TURN	AROUND	
Air	JA-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+ hour	s (6-10 days)		an an an Araba. An an Araba

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call i-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

PCM - Air	TEM Air	TEM WATER
NIOSH 7400(A) Issue 2: August 1994	AHERA 40 CFR, Part 763 Subpart E	E EPA 100.1
OSHA w/TWA	NIOSH 7402	EPA 100.2
🗌 Other:	EPA Level II	NYS 198.2
PLM - Bulk	TEM BULK	TEM Microvac/Wipe
EPA 600/R-93/116	Drop Mount (Qualitative)	ASTM D 5755-95 (quantative method)
EPA Point Count	Chatfield SOP - 1988-02	Wipe Qualitative
NY Stratified Point Count	TEM NOB (Gravimetric) NYS 198.4	1
PLM NOB (Gravimetric) NYS 198.	EMSL Standard Addition:	XRD
∏ NIOSH 9002:		Asbestos
EMSL Standard Addition:	PLM Soil	Silica NIOSH 7500
SEM Air or Bulk	EPA Protocol Qualitative	
Qualitative	EPA Protocol Quantitative	OTHER
Received at EMSL Analytical, Inc Quantitativegandro, CA (988) 455-367	5 EMSL MSD 9000 Method fibers/gram	X CARB 435
- ALANDA LAC	6	OTHER X CARB 435 See Following pages For Level.
By My D.B. Hade		Francis
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		Chain of Custody	EMSL Analytical, Inc. Suite 230
	EMISL	Asbestos Lab Services	2235 Polvorosa Ave San Leandro, CA 94577 Phone: (510) 895-
	Please print all informa	tion legibly.	3675 (888) 455-3675 Fax: (510) 895-3680 http://www.emsl.com
	Client Sample # (s)_	10A 134-183, NOA191 - 184, NOA 187-190	Total Samples #: <u>29 (185)</u>
	Relinquished: 🥂	Date: 1/22/08	Time: 0934 Time: 11:-30an P/V
	Received:	Date:	Time: 1130an P/V
	Relinquished:	VDate:	Time:
	Received:	Date:	Time:
	SAMPLE NUMBE	R SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
	NOA I	NOA 16-0, NOA 17-0, NOA 18-0, NOA	A A
		19-0, NOA 20-0, NOA 182-0, NO	
	NOA 2	NOA 18-2, NOA 20-2, NOA18	2-2 NOA 181-2 A
	NOA 3	NOA 50-0, NOA 51-0, NOA 52-0	2 A
		NOA 177-0, NOA 178-0, NOA 179-0	NDA180-0
	NOAY	NOA 50-2, NOA 51-2, NOA 52-2	4
		NOA177-2, NOA178-2, NOA179-2	, 10A 1800-2
	NOA 5	NOA53-0 NOA54-0 NOA55-0	4
		NOA56-0, NOA 174-0, NOA 175-0	
		NOA 176-D	

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₩-	Asbestos Lab Services	2235 Polvorosa Ave San Leandro, CA 94577 Phone: (510) 895- 3675 (888) 455-3675 Fax: (510) 895-3680	
ease print all information		http://www.emsl.com	
lient Sample # (s)	134-183 , NDA187- 194	Total Samples #: <u>29/185</u>	
elinquished:	Date: 1/22/08	Time: 0934	
eceived:	Date: 172 08	Time: 11:30 am	
elinquished:	Date:	Time:	
keceived:	Date:	Time:	
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	2
NUA 6	NOA 55-2, NOA176-2		مر
NOA 7	NOA 57-0, NOA 58-0, NOA 59-0		4
	NOA 60-0 NOA 61-0 NOA 170-0	>	
	NOAITI-O, NOAITZ-O NOAIT.3-C		
NCA 8	NOA 57-2, NOA 58-2, NOA 170-	2	
	NOA171-2, NOA172-2, NUA173-2	<u>~ </u>	
NOA 9	NOA62-0, NOA63-0, NOA64-0		A
	NOA167-0 NOA168-0 NOA169	-0	
NOA 10	NOA 62-2 NOA 63-2, NOA 64-2	2	
	NOA 167-2, NOA 168-2, NOA 169-2		

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Suite 230

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2235 Polvorosa Ave

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V -	Asbestos Lab Services	San Leandro, CA 94577
		Phone: (510) 895- 3675 (888) 455-3675 Fax: (510) 895-3680
Please print all information legibly.	gay ng	http://www.emsl.com
Client Sample # (s) 104 134 - 18	3, ROA187 - 194	Total Samples #: 2.9/185
Relinquished:	Date: 1/22/08	Time: <u>0834</u>
Received:	Date: 722 09	Time: 11:30 am P
Relinquished:	Date:	Time:
Received:	Date:	Time:

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Your
NOA II	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		
-	at a second s		
NOAIZ	NOA 66-2, NOA 67-2, NOA 68-2,		A
	NOA162-2, NOA163-2, NOA164-2		-
	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		
	NOA160-0, NOA161-0		_
NOA 14	NOA 69-2, NOA70-2, NOA 71-2, NOA 72-2		A
	NOA 154-2, NOA 155-2, NOA 161-2		

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Please print all information	n legibly.	http://www.emsl.com
Client Sample # (s)	1345-183, NOA187 - 194	Total Samples #: <u>29/185</u>
Relinquished:	Date: 1/22/08	Time: 0934
,	by Date: 172 083	Time: 11:30an PW
Relinquished:	Date:	Time:
Received:	Date:	Time:
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable) Level
NOA15	NOA 73-0, NOA 74-0, NOA 75-0	4
	NOA76-0 NOA 151-0, NOA 162-0	
	NOA 153-0	
NOA-16	NOA 73-2, NOA 74-2, NOA 75-2	A
	NOA 73-2, NOA 74-2, NOA 75-2 NOA 76-2, NOA 151-2, NOA 153-2	
NOA 17	NOA77-0, NOA 78-0, NOA79-0	A-
	NOA 80-0, NOA 147-0, NOA 148-0	,
	NOA 149.0, NOA150-0	
		A
NOA-18	NOA 77-2 NOA 78-2, NOA 79-2	A-
	NOA 80-2, NOA 147-2, NOA 148-2,	
	NOA 149-2, NOA 150 - 2	



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	Chain of Custody	EMSL Analytical, Inc.	
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	Asbestos Lab Services	San Leandro,	
	Asbestos Lab Sei vices	CA 94577 Phone: (510) 895-	
		3675 (888) 455-3675	
Please print all information	n legihly	Fax: (510) 895-3680 http://www.emsl.com	
•	134-183 NUA 187 - 194	Total Samples #: <u>29/185</u>	
/		Time Dozu	
Relinquished:	Date: 1/22/08 My Date: 1/22/08	Time: 11:30 an P	1.)
Received:	Date: 127 JS	Time: 1.70 am 1	
Relinquished:	Date:	Time:	
Received:	Date:	Time:	
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	hevd
101.07	11-1 alta 12-0 -12182-0		4
NOKI9	NOA 81-0, NOA 82-0, NOA 83-0		
	NOA84-0 NOA142-0, NOA143-0		
	,		
	NOA144-0, NOA145-0, NOA146-0		
NOA 20	NOA81-2, NOA 82-2, NOA 83-2	· 4	4
	NOA84-2, NOA142-2, NOA143-2		
	NOA 144-2, NOA 145-2, NOA 146-2		
intri	lind at a short of and gran		A
NOA 21	NOA 85-0 100486-0, NOA 87-0		1.11 m
	NOA 88-0, NOA 138-0, NOA 139-0	2	,
· · · · · · · · · · · · · · · · · · ·	NOK 140-0, NOA 141-0		
2 			
NOA 22	NOA85-2, NOA86-2, NOA87-2, NOA88-2		r
	NOA 138-2, NOA 139-2, NOA 140-2, NOA 141-2		
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Suite 230

San Leandro, CA 94577

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2235 Polvorosa Ave



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	and the second	Phone: (510) 895- 3675 (888) 455-3675 Fax: (510) 895-3680
Please print all information		http://www.emsl.com
	134-183, NOA 187 - 194	Total Samples #: <u>29/185</u>
Relinquished:	Date: /22/08	Time: <u>0934</u>
Received:V	Date: 1-22 OP3	Time: 1173Dan Plu
Relinquished:	Date:	Time:
Received:	Date:	Time:
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
NOA 23	NOA89-0, NOA 90-0, NOA 91-0	A
······································	NOA89-0, NOA 90-0, NOA 91-0 NOA 134-0, NOA 135-0, NOA 1.36-0	
	NOA137-0	
NO424	NOA 89-2, NOA 91-2, NOA 134-2,	A
	NOA136-2, NOA 137-2.	
NOA 25	NOA 46-0, NOA 47-0, NOA 48-0	A
	NOA 49-0	
NOA26	NA46-7 UNAW7-7 UNAU8-7	A
NUAL6	NOA46-2 NOA47-2 NOA48-2 NOA49-2	

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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

18:5

Client Sample # (s) 1/24 131-183, 100/18	7 - 194	Total Samples #: <u>29</u>
Relinquished:	Date: 1/2 2/08	Time: <u>0934</u>
Received:	Date: 22090	Time: 11:30a
Relinquished:	Date:	Time:
Received:	Date:	Time:

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	La
VOA 27	NOA 187-0, NOA BS-0, NOA 189-0		La A-
	NOA 190-0		_
NOA 28	NOA 187-2, NOA 188-2, NOA 189-2 NOA 190-2.		A
	10A190-2		-
NOA 183	Bock Chip 1/16/08 1200	ne en e	A
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EMSL Analytical, Inc. 2235 Polyorosa Ave . Suite 230, San Leandro, CA 94577 Phone: (\$10) 895-3675 Fax. (510) 835-3680 Email: milpitaslab@emsl.com

EVE

Attn: Ian Stevenson Geocon Consultants 3160 Gold Valley Dr. Suite 800 Rancho Cordova, CA 95742	Customer ID: GECN80 Customer PO: S9300-06-22 Received: 01/22/08 11:30 AM EMSL Order: 090800638	
,	52-9118 EMSL Proj: S9300-06-** 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	- <u>Asbestos</u>	<u>Asbestos</u>
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
NOA1	NOA 92-0, 93-0, 94-0,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE	95-0,129-0,130-0,131-	Non-Fibrous				
090800638-0001	0 133-0	Homogeneous				
	NOA 92-2, 93-2,95-	Brown			100.00% Non-fibrous (other)	None Detected
NOA2 COMPOSITE	2,129-2,130-2,131-	Non-Fibrous				None Delected
090800638-0002	2 132-2 133-2	- Con-lineous		and the second se		
		Homogeneous				
NOA3	NOA96-0,97-0,98-	Brown			100.00% Non-fibrous (other)	<0.25% Tremolite
COMPOSITE	0,99-0,125-0,126-	Non-Fibrous		and the second se		
090800638-0003	በ 127-በ 128-በ	Homogeneous	$\langle /$			
	NOA96-2,97-2,98-		\rightarrow		100.00% Non-fibrous (other)	Neno Datastad
NOA4 COMPOSITE	2,99-2,125-2,126-	Brown Non-Fibrous	/			None Detected
090800638-0004	2 127-2 128-2	nore loious				
		Homogeneous				
NOA5	NOA 100-0, 101-0,	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE	124-0	Non-Fibrous			~	
090800638-0005		Hopfogeneous	i.			
	NOA 100-2, 101-2,	Brown	•		100.00% Non-fibrous (other)	None Detected
NOA6 COMPOSITE	124-2 /	Non-Fibrous				None Detected
090800638-0006		NOIPEIDIOUS				
	/	Homogeneous				
NOA7	NOA 102-0,103-0,104-	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE	0,105-0,108-0,119-0	Non-Fibrous				
090800638-0007		Homogeneous				
	NQA102-2,104-2,106-				100.00% Non-fibrous (other)	Nexa Data ata d
NOA8 COMPOSITE	Z,119-2,120-2,121-	Brown Non-Fibrous				None Detected
090800638-0008	2 122-2 123-2	NON-FIDIOUS				
	/	Homogeneous				
la da						
Analyst(s)		-				
Nonette Patron ((16)				Baojia Ke, Laborator	y Manager
Yulia Grozman (J	2)				or other approved	signatory
This report relates o	nly to the samples listed above and	may not be reproduced ex	cept in full, with	out EMSL's written a	pproval. This report must not be used by the clie	ent to claim
product certification, Some samples may	approval as and aroom on the MVI /	AP, NIST, or any agency of resolution limit of PLM. EM	the federal gove SL recommends	roment EMSL is not	responsible for sample collection activities or r ed as none detected or less than the limit of de	nethod iiminauosis.
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1947), 1947				¹⁴		
autor to a str		-		4.1		

EMSL Arialytical, Inc 2235 Polvorosa Ave. Suite 230, San Leandro, CA 94577 Phone: (510) 895 3675 Fax: (510) 895-3680 Eniail: miloitastab@emsLcom

03	an Stevenson Geocon Consultants 3160 Gold Valley Dr Suite 800 Rancho Cordova, C.			Customer ID: Customer PO: Received: EMSL Order:	GECN80 S9300-06-22 01/22/08 11:30 AM 090800638
Fax: Project:	(916) 852-9132 S9300-06-22, Highway 50	Phone: SI, Phase 3	(916) 852-9118 3	EMSL Proj: Analysis Date: Report Date:	S9300-06-** 2/13/2008 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	<u>Asbestos</u>
Sample	Location	Appearance		%	Fibrous	% Non-Fibrous	% Туре
NOA9	NOA107-0,108-0,109-	Brown	,			100.00% Non-fibrous (other)	None Detected
COMPOSITE	0,110-0,115-0,116-	Non-Fibrous					
090800638-0009	0117-0118-0	Homogeneous					
NOA10	NOA107-2,108-2,109-	Brown				100.00% Non-fibrous (other)	None Detected
COMPOSITE	2,110-2,115-2,116-	Non-Fibrous					
090800638-0010	2 117-2 118-2						
		Homogeneoùs				100.00% Non-fibrous (other)	
NOA11 COMPOSITE	NOA 110-0, 112-0, 113-0, 114-0	Brown			/	100.00% Non-Indiads (other)	None Detected
090800638-0011	113"0, 114-0	Non-Fibrous					
		Homogeneous	<u> </u>	No.			
NOA12	NOA 111-2, 112-2,	Brown				100.00% Non-fibrous (other)	None Detected
COMPOSITE	114-2	Non-Fibrous			\times		
090800638-0012		Homogeneous		And a start of the			
NOA13	NOA 156-0, 157-0,	Brown				100.00% Non-fibrous (other)	None Detected
COMPOSITE	158-0, 159-0	Non-Fibrous		·		`	None Deteoted
090800638-0013						\mathbf{i}	
••••	1101 (50 D 157 D	Homogeneous				100 00% New fibroup (other)	
NOA14 COMPOSITE	NOA 156-2, 157-2, 158-2, 159-32	Brown				100.00% Non-fibrous (other)	None Detected
090800638-0014	100-2, 103-02	Non-Fibrous					
		Homogeneous					
NOA15	NOA 184-0, 185-0,	Brown	5			100.00% Non-fibrous (other)	<0.25% Tremolite
COMPOSITE	186-0	Nøn-Fibrous			¥.		
090800638-0015	/	Homogeneous			·		· · ···
	NOA 184-2, 185-2,	Brown				100.00% Non-fibrous (other)	<0.25% Tremolite
COMPOSITE	186-2	Non-Fibrous					
090800638-0016							
******		Homogeneous					
Analyst(s)							
Nonette Patron (16	3)	-				Baoija Ke, Laborato	v Manager
Yulia Grozman (2)	r					or other approved	, .
This report relates only	to the samples listed above and	may not be reproduc	ed except in fu	š, witho	ut EMSL's written a	pproval. This report must not be used by the cli	ent to claim
product certification at	proval, or endorsement by NVL/	AP NIST or any agen	cy of the feder	al coven	nment. EMSL is no	t responsible for sample collection activities or r ted as none detected or less than the limit of de	nethod limitations.
additional analysis via	TEM.Samples received in good	condition unless other	wise noted.				

EME

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

A				
Attn:	lan Stevenson	- 	Customer ID:	GECN80
	Geocon Consultants	1 e	Customer PO:	S9300-06-22
	3160 Gold Valley Dr.		Received:	01/22/08 11:30 AM
	Suite 800		EMSL Order:	090800638
	Rancho Cordova, CA 95742			
Fax:	(916) 852-9132 Phone: (916) 85	52-9118	EMSL Proj:	\$9300-06-**
Project:	S9300-06-22, Highway 50 SI, Phase 3		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	<u>Asbestos</u>
Sample	Location	Appearance	%	Fibrous	% Non-Fibrous	% Туре
NOA17	NOA	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800638-0017	191,192,193,194-0	Non-Fibrous				
		Homogeneous				
NOA18	NOA	Brown			100.00% Non-fibrous (other)	None Detected
COMPOSITE 090800638-0018	191,192,193,194-2	Non-Fibrous				
•		Homogeneous				
				1		

Analyst(s)

A second s

Nonette Patron (16) Yulia Grozman (2) Baojia Ke, Laboratory Manager or other approved signatory

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PLMPointCount-1

THIS IS THE LAST PAGE OF THE REPORT.

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Chain of Custody

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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.

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 Cod	le: 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	r: 59300-06-22
Project Name/Num	iber: Highwan DSI 55	B00-06-22	
	II and the State		

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	n Na sana ang kang kang kang kang kang kang ka	144+ hour	1. to a second se		

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There's 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 -Frl.), Please Refer to Price Quote

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PCM - Air	TEM Air	TEM WATER
NIOSH 7400(A) Issue 2: August 1994	AHERA 40 CFR, Part 763 Subpar	rt E 🗌 EPA 100.1
OSHA w/TWA	NIOSH 7402	EPA 100.2
Other:	EPA Level II	🗌 NYS 198.2
PLM - Bulk	TEM BULK	TEM Microvac/Wipe
EPA 600/R-93/116	Drop Mount (Qualitative)	ASTM D 5755-95 (quantative method)
EPA Point Count	Chatfield SOP - 1988-02	Wipe Qualitative
NY Stratified Point Count	TEM NOB (Gravimetric) NYS 19	98.4
PLM NOB (Gravimetric) NYS 198	1 EMSL Standard Addition:	XRD
		Asbestos
EMSL Standard Addition:	PLM Soil	Silica NIOSH 7500
SEM Air or Bulk	EPA Protocol Qualitative	
RQualitativenSL Analytical, Inc.	EPA Protocol Quantitative	OTHER
Sag 1 440 (20 (888) 455-3675	EMSL MSD 9000 Method fibers/g	$\operatorname{Tam} X CARB435$
By MMMSI		Sap following pages
Date 112020 113 Den pm	2	see to having pages for level
http://www.emgl.com/COC_Prin	nt.cfm?action=print&ServiceCatS	

		- Tage 2 01 2
	Phase 3 90800	638 164
EMSL	Chain of Custody	EMSL Analytical, Inc. Suite 230 2235 Polyorosa Aye
	Asbestos Lab Services	2255 Folvorosa Ave San Leandro, CA 94577 Phone: (510) 895-
Please print all informatio	on legibly.	3675 (888) 455-3675 Fax: (510) 895-3680 http://www.emsl.com
Client Sample # (s) 104	104-133 NOK156-159 NOA184-186	Total Samples #: <u>16 (94</u>)
Relinquished:	Date: 1/22/08	Time: <u>0921</u>
Received:	Date: 1/22/08	Time: 11:30am PU
Relinquished:	Date:	Time:
Received:	Date:	Time:
	CANTER DESCRIPTION & OCATION	VOLUME (if applicable)
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	
NOA 1	NOA 92-0, NOA 93-0; NOA 94-0	A
	NOA 95-0 NOA129-0, NOA 130-0	
	NOA 131-0 NOA 132-0, NOA133-0	
NOA 2	10492-2, 10493-2, 10495-2	4
	NOA129-2, NOA130-2, NOA131-2	
	NO4132-2, NOA133-2,	
		in the second
NOA 3	NOA 96-0, NOA 97-0, NOA 98-0	A
	NOA 99-0, NOA 125-0, NOA126-0	
······································	NOA127-0, NOA128-0	
NOAY	NOA 96-2, NOA 97-2, NOA 98-2, NOA 99-2	4
	NOA125-2, NOA126-2, NOA127-2, NOA128-2	

	908006	338 20 54
EMSL	Chain of Custody	EMSL Analytical, Inc. Suite 230 2235 Polyorosa Aye
	Asbestos Lab Services	San Leandro, CA 94577 Phone: (510) 895- 3675 (888) 455-3675
Please print all information		Fax: (510) 895-3680 http://www.emsl.com
Client Sample # (s)		Total Samples #: <u>// (94)</u>
Relinquished:	Date: 1/2.2/28	Time: <u>092/</u>
Received:	MDate:[2208	Time: 11:30 am PlU
Relinquished:/	Date:	Time:
Received:	Date:	Time:
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
	· · · ·	4
1045	NOA 100-0, NOA101-0, NUA124-0	
NOT 6	NOA100-2, NOA101-2, NOA124-2	A
,		
NOA 7	NOA 102-0 NUA103-0 NOA104-0, N	04105-0 A
	104106-0, NOX119-0 NOX120-0	
	NOA121-0, NOA122-0, NOA123-0	
NOAS	NOA102-2 NDA104-2 NOA106-2	A
	NOA 119-2, 104120-2, 104121-2, NOA12	2. 2
	NOA123-2.	
NOA 9	NOA107-0, NOA108-0, NOA109-0, NOA110	200 A
	NOA115-0 NOA116-0 NOA119-0 NOA118	r-p

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EMSL	Chain of Custody	EMSL Analytical, Inc. Suite 230 2235 Polvorosa Ave
	Asbestos Lab Services	San Leandro, CA 94577 Phone: (510) 895- 3675 (888) 455-3675 Fax: (510) 895-3680
Please print all information		http://www.emsl.com
Client Sample # (s) MAA	104-133, WOR 156 - 159, MOA 184-186	Total Samples #: <u>16 (94)</u>
Relinquished:	Date: 1/22/08	Time: <u>0921</u>
Received:	Date: 172 02	Time: 11:30m PLU
Relinquished:	Date:	Time:
Received:	Date:	Time:
SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
NOA 10	104.107-2, NOA108-2; NOA109-2	A
	NOA 110-2, NOA 115-2, NOA 116-2	
	NOA117-2, NOA118-2.	
· ·		
NOAII	NOA111-0, 10A112-0, 10A113-0	2
· · ·	NOA114-0	
		¥3
NOA 12	NOA111-2, NOA112-2, NOA114-2	A
NOA 13	NOA 156-0, NOA 157-0, NOA158-	d A
	1/0A159-D	
		· · · · · · · · · · · · · · · · · · ·
NOA 14	NOA 156-2 NOA157-2, NOA 158-	2 4
	NoA159-2	

http://www.emsl.com/COC_Print.cfm?action=print&ServiceCatSelect=3&LabsSelect=Sa... 11/26/2007

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EMSL	Chain of Custody	EMSL Analytical, Inc. Suite 230 2235 Polyorosa Ave
▼-	Asbestos Lab Services	San Leandro, CA 94577 Phone: (510) 895- 3675 (888) 455-3675
Please print all information Client Sample # (s)	n legibly. 101-133 _MA156 - <u>159 _MA84-186</u>	Fax: (510) 895-3680 http://www.emsl.com Total Samples #: <u>26 (94)</u>
Relinquished:	Date: 1/22/08	
Received:	n/ Date: 122 00	Time: 11:30m PU
Relinquished:	Date:	Time:
Received:	Date:	Time:
CANDLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable) Cevel
SAMPLE NUMBER		4
NOA 15	NOA 184-0, 104185-0, NOA180	<u>6-0</u>
NOA 16	NOA 184-2, NOA 85-2, NOA186	5-Z A-
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Page 1 of 2

	Pag
Nonett	e 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. Ł EMSL Ana San Leanc	
Sent: Mor To: 'Danie	Stevenson <stevenson@geoconinc.com> day, February 11, 2008 4:47 PM Kocher' <dkocher@emsl.com> RE: 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3 CALL CALL CALL CALL CALL CALL CALL CALL</dkocher@emsl.com></stevenson@geoconinc.com>
Please co	mposite 191 through 194 as 191,192,193,194-0 and 191,192,193,194-2. No analysis is nOA 94-2.
Sent: Sun To: Ian St Cc: Nonet	iel Kocher [mailto:dkocher@emsl.com] day, February 10, 2008 11:36 AM evenson e Patron; Jason McGriff; Michelle Embers RE: 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3
lan:	
Sounds go	od. Let us know when you decide. The other phase 2 & 3 parts are all complete and sent off.
	íocher lytical, Inc. ro Branch CA
Sent: Frid To: 'Koche	Stevenson <stevenson@geoconinc.com> ay, February 08, 2008 4:27 PM r, Daniel' <dkocher@emsl.com> RE: 090800638 / PLM CARB 435 / S9300-06-22, Highway 50, Phase 3</dkocher@emsl.com></stevenson@geoconinc.com>
Hi Daniel,	
email. I w	he delayed response, I have been out in the field for the last week and did not have ac Il review the dailies for the job on Monday and advise on how to composite the sample he COC. Have a good weekend.

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

lan:

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:

6	NOA 94-2	-
Ţ	NOA 191-0	1
	NOA 192-0	1
	NOA 193-0	1
	NOA 194-0	
	NOA 191-2	ł
	NOA 192-2]
	NOA 193-2	
L	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

1: Sapon Apporting Doct Bar L G Fax _____/___/___ by ____ by ____ Q Verbal C Mall _____by____

Data ENAMY- LA 2/13/08

APPENDIX

C

Project Name:Highway 50 Site Investigation PM 2.90 to 8.79Project No.:S9300-06-22Sample 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

Project Name:Highway 50 Site Investigation PM 2.90 to 8.79Project No.:S9300-06-22Sample Depth:1.0 ft (Median)

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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

Project Name:Highway 50 Site Investigation PM 2.90 to 8.79Project No.:S9300-06-22Sample 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

 $a.p^{\dagger}$

Project Name:	Highway 50 Site Investigation PM 2.90 to 8.79
Project No.:	\$9300-06-22
Sample Depth:	Samples from borings B46 thru B49 and
	B187 thru B194 (Soundwall)

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DATA SET STATISTICS

DITTEDUT DITTEDUTED	
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
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