PRELIMINARY SITE INVESTIGATION

Blairs Lane Bridge (Replacement) at Hangtown Creek
El Dorado County, California
Existing Bridge 25C0012

Prepared For:

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EXECUTIVE SUMMARY

The purpose of this Preliminary Site Investigation (PSI) is to provide an assessment of environmental conditions that could require special handling during project activities and construction. This PSI was conducted for a study area comprising the Blairs Lane Bridge (Replacement) at Hangtown Creek (Bridge 25C0012), the sewer line replacement on Broadway, and the adjacent right-of-way and approaches based on the Area of Potential Effects (APE) map for this project dated February 26, 2014. This PSI includes a summary of activities conducted within the study area from December 15 through December 23, 2014. This PSI also identifies materials that require special handling under Federal or California regulations.

Taber Consultants assessed soil underlying painted components of the bridge and white and orange paint on the bridge for lead content. Analytical results indicate that soil lead, which exceeds 5.0 milligrams per liter (mg/l) soluble lead, and white and orange paint on the bridge exceeded 1000 milligrams per kilogram (mg/kg), the respective California Department of Toxic Substances Control (DTSC) thresholds for hazardous waste in soluble and solid form. The paint is in poor condition. Soil samples below the bridge were found to have elevated concentrations of lead, which may be derived from leached lead from the paint. Due to lead in the paint material samples, the painted surfaces must be disposed of in accordance with the Caltrans Standard Special Provision 14-11.08, Disturbance Of Existing Paint Systems On Bridges. This provision addresses soil sampling prior to and after abatement of lead based paint on the bridge.

A single “Lead Compliance Plan” must be prepared for the project to address the lead in the soil below the bridge and the paint on the bridge. Section 7-1.02K(6)(j)(ii) of the Caltrans Standard Specifications, and Section 7-1.02K(6)(j)(iii) of the Caltrans 2010 Standard Special Provisions (SSPs) requires the contractor to prepare a Lead compliance plan.. The SSPs should be included in the Contract requiring a Health & Safety Plan for workers in accordance with Cal OSHA Title 8, Section 1532.1. With respect to lead in the paint on the bridge, the SSPs should address paint abatement prior to construction, worker protections with respect to handling of materials coated with lead-based paint, temporary storage, testing, and transportation to an appropriate disposal or recycling facility. The Resident Engineer should have the contractor provide written documentation that recycling or disposal facilities acknowledge the potential for lead on the material received. For soils below the bridge, the SSPs should specify soil disposal protocols. Dependent on actual construction conditions, the SSPs may contain handling requirements (e.g., excavate to total depth, not in lifts). These requirements should be included and must be followed in situations where mismanagement of the soil could result in unintended misclassification of the soil and unnecessary hazardous waste generation.

Under the federal asbestos National Emissions Standards for Hazardous Air Pollutants regulations (NESHAP, 40 CFR Part 61, Subpart M), incorporated into California air quality regulations by California Health and Safety Code Section 39658(b)(1) and in compliance with NESHAP regulations, a Certified Asbestos Consultant (CAC) must make definitive conclusions regarding the presence of asbestos containing materials (ACM). National Analytical

Laboratories, Inc. (NAL) performed the CAC assessment and collected samples of suspected ACM, including concrete. Of the six (6) samples of suspect ACM collected by NAL, two (2) of the samples were found to be ACM. The thermal system insulation (TSI) wrapped around the pipe conduits adjacent to the bridge and the bridge compression shims contained 40% chrysotile.

Any projects in which structures are demolished or renovated within El Dorado County are required to provide written notification to the El Dorado County Air Quality Management District (AQMD) at least 10 business days prior to conducting the work, regardless of the presence or absence of asbestos in building materials. The Resident Engineer should determine what permits and other consideration are required for the project. The applicable Caltrans Non-Standard Special Provision (nSSP) is 14 9.02 Air Quality, NESHAP Notification. The applicable nSSP for management of asbestos during construction is nSSP 14-11.11 Management Of Asbestos Containing Materials.

Taber Consultants performed an NOA assessment of rock and soil potentially containing naturally occurring asbestos (NOA). Based on soil lithology observed within the study area during environmental investigations related to hazardous materials releases, the foundation investigation for the project and analytical analysis of soil and rock samples, Taber Consultants found that the likelihood of NOA within the study area is low. A Fugitive Dust Control Plan and application fee must be submitted to AQMD to comply with AQMD Rule 223-2 Fugitive Dust-Asbestos Hazard Mitigation Section 2.2.B. .

Taber Consultants performed subsurface investigation within the proposed construction area to provide an assessment of the extent of soil and groundwater impacts from known releases of petroleum hydrocarbons and chlorinated ethenes. Total petroleum hydrocarbons gasoline and diesel, benzene, toluene, ethyl benzene, xylenes and other gasoline compounds were observed in soil and groundwater to the east and west of Blairs Lane at 1296 Broadway and 1312 Broadway. Fuel service stations dispensing gasoline and diesel with known releases are located adjacent to these impacts.

Chlorinated ethenes tetrachloroethene, trichloroethene, and 1,2-dichloroethene (PCE, TCE and 1,2-DCE, respectively) were observed in groundwater samples from Broadway, with higher concentrations observed near the intersection of Broadway and Blairs Lane. The source of the chlorinated ethenes identified in this assessment is not fully identifiable.

The former dry cleaner location approximately 500 feet to the west on Broadway is a likely source of chlorinated ethenes identified in groundwater in boring SB-3. Other unidentified sources may exist upstream along sewer lines or other utility conduits east of the project area that may contribute to the chlorinated ethene concentrations observed in borings SB-1 and SB-7.

In 2007, PCE, TCE and 1,2-DCE were detected in groundwater samples from Blairs Lane immediately north of the bridge. In the December 2012 groundwater samples, concentrations of PCE and TCE were below laboratory reporting limits, and only a low

concentration of 1,2-DCE was detected in boring SB-7. . Because the chlorinated ethene concentrations have decreased in groundwater in boring locations where Taber Consultants can make historical comparisons, it appears to be a historical source that is not currently contributing additional chlorinated ethenes.

A Health and Safety Plan (HASP) should be provided to the construction contractor consistent with Cal OSHA requirements and Caltrans standards, containing provisions for lead in soils, lead-based paint, ACM, and impacts to soil and groundwater from petroleum hydrocarbons and chlorinated ethenes.

A Risk Management Plan for Soil and Groundwater should be prepared with provisions providing guidance with respect to handling of impacted soils and groundwater encountered during construction of the new bridge and sewer alignment. Provisions and guidance should include potential exposure to sewer-related hazards (i.e., fecal coliform and other potentially pathogenic bacteria and/or organisms), air monitoring, stockpile separation of impacted and unimpacted soils, management of soil stockpiles, containment of groundwater from the impacted area, profiling soils and groundwater for disposal, soil and groundwater disposal at an approved off-site facility, providing access controls, providing dust and storm water pollution controls, preventing creation of potential conduits for impacted groundwater and other controls appropriate to the project. A California registered professional should be retained to oversee and screen excavation and dewatering activities due to high likelihood of encountering contaminated soil and/or water during construction.

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1.0 INTRODUCTION

1.1 Study Purpose

The purpose of this Preliminary Site Investigation (PSI) was to provide an assessment of environmental conditions that could require special handling during construction of the bridge replacement and sewer relocation on Blairs Lane at Hangtown Creek and Broadway in Placerville, El Dorado County, California. This PSI was prepared in accordance with the request of Quincy Engineering, Inc. (QEI) to identify potential or known hazardous materials, hazardous waste, and contamination in the project area.

1.2 Scope Of Work

The scope of work for the limited investigation consisted of collecting samples of various media that could pose health and safety concerns for the project. The following materials were sampled and assessed for potentially hazardous materials constituents:

- A soil sample from below the bridge and bridge paint samples were collected to assess the potential for lead concentrations relative to hazardous waste criteria.
- Suspected asbestos containing materials (ACM) were assessed for asbestiform minerals.
- Rock and soil samples were collected from representative soil boring locations to assess the potential presence of naturally occurring asbestos (NOA).
- Soil and groundwater samples were collected from soil borings advanced within the proposed construction area to assess impacts to soil and groundwater from petroleum hydrocarbons, chlorinated ethenes and related compounds.

The findings of Taber Consultants' hazardous materials assessment are discussed below.

2.0 BACKGROUND INFORMATION

The Site Description was taken from Taber Consultants' *Foundation Report* dated May 30, 2007. The Project description was taken from the *Addendum to the Adopted Mitigated Negative Declaration for Blairs Lane Bridge (25C-0012) at Hangtown Creek Replacement Project SCH# 2006122001* dated July 2014.

2.1 Project Location

The project site is located on Blairs Lane and Broadway in Placerville approximately 450 feet south of Highway 50 (See Figure 1). The GPS coordinates of the site are latitude 38.731449° N and longitude -120.783225° W.

2.2 Site Description

Hangtown Creek follows a generally straight course through the project area and flows to the west (Figure 1). The existing Blairs Lane Bridge is a single-span concrete deck on steel girder structure approximately 30 feet long and 20 feet wide. It is supported on reinforced concrete wall abutments slightly skewed to match the channel. A concrete sill / weir structure is located in the channel just below the downstream (west) side of the bridge. Natural channel banks are moderately steep and heavily vegetated in the immediate vicinity of the existing bridge. Walls and hardened bank areas exist both up and downstream of the site. Channel bottom is about 10 feet below deck on the upstream side of the sill and 11± feet below deck on the downstream side.

2.3 Project Description

The proposed project consists of replacing the existing 31-foot long single span, steel stringer bridge with a concrete deck supported on concrete abutments with a 41-foot long single span cast in place pre-stressed concrete bridge.

The proposed project provides a tangent horizontal alignment in approximately the same location as the existing roadway. Most of the road widening associated with the proposed project will be located on the east side of Blairs Lane. Road widening will require right of way (ROW) acquisition on both sides of the road to provide two standard 12-foot wide travel lanes, five-foot wide sidewalks on the west and an approximately 125 feet long sidewalk segment portion to the east.

Retaining walls will be used where feasible to avoid existing utilities, oak trees, and other improvements south of Bridge 25C0012. Retaining wall types include Caltrans standard cantilever wall and modular block landscaping walls.

North of Bridge 25C0012, Blairs Lane will be raised approximately two feet from the existing grade in order to accommodate hydraulic design constraints. The road profile at the intersection of Blairs Lane and Broadway will not be changed. This allows Broadway to maintain its existing grade. The two gas station driveways north of the bridge will be raised and reconstructed to match the proposed Blairs Lane road profile.

The project will relocate an existing 6 inch sewer line in Blairs Lane from Baco Drive which connects to a 12 inch sewer line on the north side of the creek. The existing 6 inch sewer line is attached to the bridge.

Existing north-south aligned underground utilities present along Blairs Lane include 10 inch water lines (one line along the west side of the bridge and one line along the east side of the bridge), the 6 inch existing inch sewer line to be relocated, Comcast television, and a 36 inch storm drain that outlets at both north and south creek banks. Existing east-west aligned underground utilities present adjacent to Hangtown Creek include a 4 inch sewer and 2 inch water service adjacent to the south bank and a 12 inch sewer line adjacent to the north bank. Depth to existing dry utilities below grade can be assumed to be roughly 3 feet. The existing north-south aligned 6 inch sewer depth ranges from approximately 3 to 8 feet (to invert of pipe). The approximate depth of the existing north-south aligned waterline is 4 feet (to invert of pipe). The approximate depth of the existing 12 inch sewer line adjacent to the north bank of the creek is 7 feet.

The Project will relocate the existing 6 inch sewer line in Blairs Lane from Baco Drive north to a point just south of the new bridge structure. The relocated 6 inch sewer line will transition to an 8 inch sewer main and will be placed in a trench beneath the bed of Hangtown Creek.

Installation of the relocated sewer main will require excavation of a trench perpendicular to Hangtown Creek. Maximum depth of excavation below the bed of the Hangtown Creek for the creek crossing would be approximately 3 feet. Maximum depth of excavation in the adjacent creek banks and uplands areas would be approximately 13 feet below existing grade.

The Project will relocate the existing 12 inch sewer line that parallels Hangtown Creek approximately 130 feet north, placing it beneath Broadway and extending it west approximate 550 feet to reconnect with the existing sewer line at Lucky Street. Depth of excavation required along Broadway would range from approximately 15 feet near the intersection of Blairs Lane to about 6 feet near Lucky Street. The relocated pipe will be 15 inch diameter. The existing sewer line segment paralleling Hangtown Creek and the sewer line segment along the north edge of Broadway will be abandoned in place(filled with slurry). Relocation of the sewer line in Broadway will require installation of two short (each less than 100 feet in length) 6 inch sewer laterals to connect service lines to existing businesses.

The existing waterline beneath Blairs Lane will be relocated and a pressure reducing station will be installed on the west side of Blairs Lane, north of Baco Drive. The relocated waterline will be attached to the east side of the new bridge.

The Project requires relocation of overhead electrical utility and telephone lines across Hangtown Creek. PG&E or their subcontractor will perform activities associated with the relocation of electrical utilities associated with the project. Ground disturbance associated with relocation of electrical utility and telephone lines is comprised of the installation of one new wooden utility pole near the southeast corner the new bridge and installation of a replacement wooden utility pole and a small utility box within a utility easement between the Caltrans maintenance yard and the south bank of Hangtown Creek. Tree trimming and tree removal will be necessary to provide line clearance for the existing and relocated electrical utility and telephone lines over Hangtown Creek. Tree trimming and tree removal will be conducted by the City, PG&E, or their contractors.

2.4 Study Area

The study area is defined as Blairs Lane, the Blairs Lane Bridge over Hangtown Creek, the adjacent City right-of-way near the bridge, and the portions of Broadway where the sewer relocation/modification work will be conducted. The study area is depicted within the black boundary lines of the February 26, 2014, Area of Potential Effects Map (APE map, Appendix A).

3.0 HAZARDOUS MATERIALS SAMPLE COLLECTION METHODOLOGY

Taber obtained boring permits from El Dorado County Environmental Management Department and an encroachment permit from the City of Placerville. The boring locations were marked and Underground Service Alert (USA) was notified a minimum of 48 hours prior to the installation of the soil borings to locate any utilities in the vicinity of the planned boring locations. As a further precaution against encountering underground utilities during drilling, the upper five feet of all borings were augered by hand.

Prior to initiating fieldwork, a site-specific health and safety plan (HASP) was prepared according to 29 CFR 1910.120. The HASP included safety procedures for work to be performed, chemical hazard information, site safety officers, and a medical emergency location. The HASP was kept on site at all times during the site investigation work.

3.1 Soil Underlying Bridge And Bridge Paint

On December 23, 2014, Taber Consultants collected one (1) soil sample from below the bridge and four (4) paint samples from the bridge structure. To assess lead concentrations in soil underlying the bridge, soil sample (S-1) was collected from soils underlying the I-beams below the bridge prior to collection of bridge paint in order to prevent cross-contamination. Three (3) white paint samples (LBP-1, LBP-2, and LBP-3) were collected from the horizontal railings and vertical posts of the upper bridge structure, and one (1) orange paint sample (LBP-4) was collected from the steel I-Beams of the lower bridge structure.

Paint samples were collected by chiselling paint material from the wood or steel surface. Soil samples were collected using hand tools. The samples were collected into plastic Ziploc® bags which were labelled for laboratory analysis. Under chain of custody documentation, the samples were transported to SunStar Laboratories, Inc. (ELAP certification 2250) for analysis of lead using EPA Method 6010B.

3.2 Asbestos Containing Materials (ACM)

National Analytical Laboratories, Inc. (NAL), a Certified Asbestos Consultant (CAC), conducted a site visit and collected six (6) samples of suspect ACM on December 15, 2014. The material samples collected were thermal systems insulation (TSI), compression shim, asphalt compression felt, structural concrete (two (2) samples) and white paint. MicroTest Laboratories, Inc. located in Fair Oaks, California (National Voluntary Laboratory Accreditation Program Certification #200999-0), analyzed the bulk suspect asbestos samples utilizing the Polarized Light Microscopy (PLM) Method. The report is attached as Appendix B.

3.3 Naturally Occurring Asbestos (NOA)

Soil and rock samples were collected from four boring locations within the study area. Samples were collected from material collected from the surface to bedrock, including native soil, fill material (including gravel and rocks that were potentially non-native to the soil), and bedrock. The samples were collected into plastic Ziploc® bags which were labeled for laboratory analysis. Under chain of custody documentation, the samples were transported to Asbestos TEM Laboratories, Inc. (ELAP certification 1866) for analysis of NOA using the California Air Resources Board (ARB) Method 435. The analytical laboratory report for NOA is included as Appendix C.

3.4 Soil

Soil borings were advanced in eight (8) locations on Broadway and Blairs Lane in Placerville on December 18-22, 2014 (Figure 2). Soil samples were collected from eight (8) of the soil borings (SB-1 through SB-8) drilled by Taber Drilling using hollow stem auger drilling techniques.

Three (3) soil borings were advanced on Broadway (SB-1, SB-2 and SB-3) near the proposed location of the new sewer lateral. Four (4) soil borings were advanced on Blairs Lane north of the bridge on both sides of the road (SB-4 and SB-5 west of Blairs Lane, SB-6 and SB-7 east of Blairs Lane) within the right-of-way of the proposed widening project. One (1) boring was attempted south of the bridge (SB-8), however Taber Drilling encountered refusal due to large cobbles in the area of SB-8. Due to limited opportunity to advance alternate borings in this location because of close proximity to underground utilities, a soil sample was collected but no groundwater sample was collected at SB-8. Soil boring locations are shown on Figure 2. Soil boring logs are attached as Appendix D.

While borings were advanced, soil samples from the borings were screened for organic vapors with a photoionization detector (PID) to field screen the presence of volatile organic compounds. Based on field observations and PID measurements, one soil sample from each boring was submitted for laboratory analysis.

During the advancement of the two soil borings, Taber Consultants attempted to collect undisturbed soil samples at 5-foot intervals using a 2.4-inch California Modified split spoon sampler and brass sample sleeves. If sampler recovery was poor, a disturbed soil sample was collected from representative drill cuttings and noted in the field logs. Disturbed soil samples were collected in SB-3 at approximately 8 feet below ground surface (bgs) and in SB-7 at approximately 6 feet bgs. A field geologist logged each of the undisturbed soil samples for hydrogeologic and lithologic characteristics according to the Unified Soil Classification System (USCS) and screened each sample for organic vapors using a PID. The soil samples were sealed with Teflon® film and plastic end caps, labeled, packaged in an iced cooler, and transported with chain-of-custody documentation to SunStar Laboratories, Inc. (ELAP

certification 2250) for analysis. Soil samples were analyzed using EPA Method 8015 to quantify total petroleum hydrocarbons as gasoline (TPH-G) and total petroleum hydrocarbons as diesel (TPH-D), and EPA Method 8260 to quantify petroleum hydrocarbon compounds and chlorinated ethenes (tetrachloroethene (PCE), trichloroethene (TCE), and 1,2-dichloroethene (1,2-DCE) and vinyl chloride). One soil sample (SB-8) was additionally analyzed for polyaromatic hydrocarbons (PAHs) using EPA Method 8270.

Soil and rock samples were collected for NOA analysis by collecting disturbed soil samples from the drill cuttings collected while the soil boring was advanced from initial soil surface (immediately below asphalt) to bedrock, including angular gravel in what appeared to be fill. Samples were collected from four (4) borings, SB-2, SB-6, SB-7 and SB-8. Based on the similarity between SB-6 and SB-7, SB-6 was held by the laboratory pending a need for further analysis and SB-7 was analyzed. In total, three (3) of the four (4) samples were analyzed for NOA.

3.5 Groundwater

Taber Consultants observed groundwater in soil borings SB-1 through SB-7. Groundwater and/or saturated soil conditions were observed between at approximately 9.0 feet bgs in soil borings SB-1 through SB-3, and at approximately 7 feet bgs in SB-4 through SB-7. Groundwater was not observed in soil boring SB-8 due to encountering refusal at 4.0 feet bgs.

Groundwater samples were collected using a new disposable bailer, decanted from the bailer into laboratory provided containers appropriate for the analytical method requested. The samples were collected, labeled, stored, and transported in an iced cooler, under chain-of-custody documentation to SunStar Laboratories of Lake Forest, California (a state of California certified analytical laboratory) for analysis. Groundwater samples were analyzed for TPH-D and TPH-G by EPA Method 8015, and petroleum hydrocarbon compounds and chlorinated ethenes were analyzed using EPA Method 8260B. Analytical reports are attached as Appendix H.

4.0 LITHOLOGY AND GROUNDWATER

Taber Consultants' lithology and groundwater observations are reported in the boring logs attached as Appendix D. In general, asphalt thickness encountered while advancing soil borings was approximately 6 inches. Underlying the asphalt there was approximately 3 feet of fill soils (based on appearance of angular to subangular coarse gravel). With respect to native soils Taber Consultants made the following observations:

Table 4-1. Native Soil Boring Observations SB-1 – SB-7

Soil Boring	Soil Lithology	Groundwater Depth	Bedrock Depth
SB-1 (Broadway)	Silty clay, some sandy clay	~ 9 feet bgs	~ 11.5 feet bgs
SB-2 (Broadway)	Silty clay	~ 9 feet bgs	5.0 feet bgs
SB-3 (Broadway)	Silty clay	~ 9 feet bgs	~ 10 feet bgs
SB-4 (Blairs Lane)	Silt, sandy silt, sand	~ 7 feet bgs	~ 11.5 feet bgs
SB-5 (Blairs Lane)	Silt, silty clay	~ 7 feet bgs	~ 10 feet bgs
SB-6 (Blairs Lane)	Silt, silty sand	~ 7.7 feet bgs	~ 10.5 feet bgs
SB-7 (Blairs Lane)	Silt, silty sand	~ 7.5 feet bgs	~ 11 feet bgs

Taber's observations were consistent with soils derived from metasedimentary parent material consisting of weathered slate and within a historic stream channel. Note that on the south side of Hangtown Creek, large cobbles at 4 feet were encountered consisting of Calaveras Complex-derived quartzite, consistent with historical stream channel deposits. On the north side of Hangtown Creek layers of sand and silty sand were encountered, also likely historical deposits of Hangtown Creek.

Taber Consultants' observations of groundwater within the study area may have been influenced by several large storm events that occurred before and during the time interval Taber Consults was conducting the investigation. Historical data from neighboring cleanup investigation list the following ranges of groundwater depth:

- 1261 Broadway – approximately 3.8 feet bgs to 12.0 feet bgs
- 1296 Broadway -- approximately 5.4 feet bgs to 9.8 feet bgs
- 1312 Broadway -- approximately 3.7 feet bgs to 9.8 feet bgs

Taber Consultants used solid stem auger to advance soil borings, which readily advanced through the soft metasedimentary rock observed during the investigation. Bedrock depth observations were made from samples retrieved by the California Modified Sampler, specifically when bedrock was observed in the sample sleeve or the shoe of the sampler. Historical data from neighboring cleanup investigation list the following ranges of bedrock depth:

- 1261 Broadway – approximately 3.5 feet bgs to 8.0 feet bgs
- 1296 Broadway -- approximately 7.0 feet bgs to >10.0 feet bgs
- 1312 Broadway -- approximately 6.0 feet bgs to >8.0 feet bgs

The observations reported in these logs are consistent with Taber Consultants observations, particularly with respect to the softness of the material. The soil boring logs from neighboring cleanup investigations are attached as Appendix E.

5.0 HAZARDOUS MATERIALS LABORATORY ANALYSIS AND ASSESSMENT

5.1 Soil Underlying Bridge And Bridge Paint

The results of analytical testing for lead in soil underlying the bridge and the bridge paint are presented in Tables 5.1-1 and 5.1-2 below, and summarized in Table 1. A map depicting soil and bridge paint sample locations is attached included as Figure 3.

Table 5.1-1. Lead Concentration in Underlying Bridge Soil Sample.

Sample ID	Total Lead (mg/kg)	STLC Lead (mg/l)
S-1	110	17

STLC=Soluble Threshold Limit Concentration; mg/kg = milligram per kilogram; mg/l = milligram per liter

The soil sample taken to evaluate lead in the soil underlying the bridge exceeded the lower threshold value for total lead (50 mg/kg), and was analyzed for the Soluble Threshold Limit Concentration (STLC) by the citric acid Waste Extraction Test – (CA-WET) to determine the waste classification of the soil. The soil sample had a CA-WET lead concentration greater than 5.0 mg/l, the California hazardous waste threshold.

The theoretical limit of lead that may dissolve from a solid is 10 percent of the total lead concentration. Ms. Katherine RunningCrane of SunStar Laboratories, Inc. stated that the concentration of the soluble lead was 17 mg/l, which is a small variance (6 mg/l) from the theoretical value of 11 mg/l that would have been expected from the theoretical concentration. Ms. RunningCrane stated that the observed variance from the theoretical value could be a consequence of sieving performed for the STLC analysis, which may have biased the sample toward fine paint particles so that a higher concentration than anticipated value for STLC was reported. The laboratory discussion of the analytical variance is included in Appendix H.

The total lead concentrations in the paint samples from the bridge structure ranged from 10 milligrams per kilogram (mg/kg) lead to 23,000 mg/kg lead. Analytical results for each sample are summarized below in Table 3. Analytical sample results are summarized in Appendix H.

Table 5.1-2. Lead Concentrations in Bridge Paint Samples.

Sample ID	Total Lead (mg/kg)
LBP-1	10
LBP-2	86
LBP-3	6,200
LBP-4	23,000

mg/kg = milligram per kilogram.

As indicated in Title 22 §66261.24(a)(2), the lead concentration exceeds 1,000 mg/kg lead, the regulatory threshold for wastes containing lead to be classified as hazardous, therefore additional analytical testing was not performed for these paint samples.

Housing and Urban Development (HUD) guidelines are used to describe paint conditions. The paint is peeling and does not adhere well to the wood. Photos of bridge paint condition are included in Appendix F.

5.2 Asbestos Containing Materials (ACM)

Of the six (6) samples of suspect ACM collected by NAL, two (2) of the samples were found to be ACM. The thermal system insulation (TSI) wrapped around the pipe conduits adjacent to the bridge and the bridge compression shims contained 40% chrysotile. The asphalt compression felt, structural concrete and white paint were not ACM. The NAL Certified Asbestos Consultant (CAC) report, pictures of the materials sampled, and sample location map are attached as Appendix B.

5.3 Naturally Occurring Asbestos (NOA)

The immediate area surrounding the project site is mapped as the metasedimentary Calaveras Complex (Geologic Map of the Sacramento Quadrangle). Locally these rocks are reported as consisting of weathered to highly weathered slate (Per “Log of Test Borings” for Highway 50 Bridge 25-0063). Rock types encountered during soil investigation were weathered slate bedrock (phyllite) and metasedimentary quartzite (in subsurface cobbles adjacent to Hangtown Creek). Subangular and angular gravel were encountered below the asphalt that appeared to be imported fill. The analytical laboratory report is attached as Appendix C.

Soil boring logs from subsurface investigations relative to environmental cleanup activities from 1261 Broadway, 1296 Broadway, and 1312 Broadway, and the log of test borings from Taber Consultants 2007 foundation investigation, are attached as Appendix E.

5.4 Soil

PID readings taken in soil borings SB-1 through SB-3 ranged from 0.0 to 3.2 parts per million volume (ppmv). In soil boring SB-4, PID readings were 616, 0.3 and 4.2 ppmv, at 3.0, 5.0 and 8.5 feet bgs, respectively. In soil boring SB-5, the PID reading was 209 ppmv at 5.0 feet bgs. In soil boring SB-6, PID readings were 1.7 and 0.7 ppmv, at 5.5 and 10.5 feet bgs, respectively. In soil boring SB-7, a PID reading was not taken at 5.0 feet bgs due to no sample recovery in sandy soil, however the PID reading at 10 feet bgs was 205 ppmv.

Impacts from petroleum hydrocarbons were detected in samples from soil borings SB-5 and SB-7. Chlorinated ethenes were detected in soil boring SB-7. No other analytes were

detected above laboratory reporting limits in soil samples from the remaining soil borings. Selected analytical results are presented in Table 5.4-1, Figure 4 and summarized in Table 2. The analytical laboratory report is attached as Appendix H.

Table 5.4-1. Concentrations of Selected Constituents of Concern in Soil

Sample Location	Soil Sample Depth (feet)	TPH-G (mg/kg)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	m,p-Xylenes (mg/kg)	o-Xylene (mg/kg)	Naph-thalene (mg/kg)	PCE (mg/kg)
SB-5	6	**79**	**20**	**0.13**	**0.013**	**0.61**	**0.1**	<0.005	**1.2**	<0.005
SB-7	6	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	**0.013**
SB-7	10.5	**15**	**190**	<0.005	<0.005	<0.005	<0.010	<0.005	**1.1**	<0.005
ESL		**500**	**110**	**1.2**	**9.3**	**4.7**	**11**	--	**4.8**	**2.6**

mg/kg = milligram per kilogram; numbers in bold represent detections above the laboratory reporting limit
ESL = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board, Commercial or Industrial use (Interim Final – December 2013); ESL established for total xylenes, with no detections of o-Xylene the ESL was listed under the m,p-Xylenes column. Values highlighted in yellow exceed ESLs.

5.5 Groundwater

Petroleum hydrocarbons were detected in groundwater samples from six soil borings: SB-1, SB-3, SB-4, SB-5, SB-6 and SB-7. Chlorinated ethenes were detected in groundwater samples from SB-1, SB-3, and SB-7. No detections of either petroleum hydrocarbons or chlorinated ethenes above laboratory reporting limits were reported in the groundwater sample from soil boring SB-2. Selected analytical results are presented in Tables 5.5-1 and 5.5-2, Figure 5 and summarized in Table 3. The analytical laboratory report is attached as Appendix H

Table 5.5-1. Concentrations of Selected Petroleum Hydrocarbons in Groundwater

Sample Location	TPH-G (mg/l)	TPH-D (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	m,p-Xylenes (µg/l)	o-Xylene (µg/l)	Naph-thalene (µg/l)
SB-1	**0.081**	<0.05	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
SB-2	<0.05	<0.05	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
SB-3	**0.057**	<0.05	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
SB-4	**3.7**	**1.2**	**1.9**	**1.4**	**0.82**	**3.4**	**1.2**	**9.8**
SB-5	**28**	**2.5**	**82**	**16**	**1,200**	**2,700**	**5.4**	**330**
SB-6	**0.061**	<0.05	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0
SB-7	**26**	<0.05	**2.6**	<0.50	**3.6**	<1.0	<0.50	**88**
ESL	**500**	**640**	**46**	**130**	**43**	**100**	--	**24**

mg/l = milligram per liter; µg/l = microgram per liter; ; numbers in bold represent detections above the laboratory reporting limit;
<n = below laboratory reporting limit
ESL = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board (Interim Final – December 2013), Table B-2, Shallow Soil Screening Levels (<3m bgs) Commerical/Industrial Use, (groundwater is not a current or potential drinking water resource). Values highlighted in yellow exceed ESLs.

Table 5.5-2. Concentrations of Chlorinated Ethenes in Groundwater

Sample Location	PCE (µg/l)	TCE (µg/l)	cis-1,2-DCE (µg/l)
SB-1	**92**	**10**	**44**
SB-2	<1.0	<1.0	<0.50
SB-3	**4.5**	<1.0	<0.50
SB-4	<1.0	<1.0	<0.50
SB-5	<1.0	<1.0	<0.50
SB-6	<1.0	<1.0	<0.50
SB-7	<1.0	<1.0	**1.6**
ESL	**120**	**360**	**590**

mg/l = milligram per liter; µg/l = microgram per liter; ; numbers in bold represent detections above the laboratory reporting limit
<n = below laboratory reporting limit
ESL = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board, Commercial or Industrial use, 2013; ESL = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board (Interim Final – December 2013), Table B-2, Shallow Soil Screening Levels (<3m bgs) Commerical/Industrial Use, (groundwater is not a current or potential drinking water resource). Values highlighted in yellow exceed ESLs.

No fuel oxygenates, such as methyl tertiary butyl ether (MTBE), were detected above laboratory reporting limits in groundwater samples from soil borings SB-1 through SB-7.

5.6 Boring Abandonment and Site Restoration

Upon completion of drilling activities at the site, the soil borings were sealed with neat cement grout for their entire depth and finished flush with grade in accordance with State of California and El Dorado County regulations.

6.0 CONCLUSIONS, DISCUSSION AND RECOMMENDATIONS

6.1 Conclusions

Lithologies consisted of predominately silty clay above bedrock in the borings advanced along Broadway. Lithologies consisted of predominately clayey silt and silty sand above bedrock in the borings advanced along Blairs Lane. Yellow, tan and dark gray metasedimentary rock (Calaveras Complex) was encountered between five and ten feet. Groundwater was encountered between seven and nine feet bgs during site investigation activities.

Based on total lead and CA-WET soluble lead content, the soil underlying the bridge would be classified as a California Hazardous Waste. Based on analytical concentrations of lead in samples, the hazardous waste threshold for lead is exceeded in the soil underlying the bridge and the bridge paint, which will require special handling of these materials during construction activities.

Asbestos containing material (ACM) was detected on the Blairs Lane Bridge. The thermal system insulation (TSI) and bearing shims contain 40% chrysotile asbestos. No other bridge materials, including structural concrete, were found to contain asbestos containing material (ACM).

No ultramafic rock or other instances of suspected naturally occurring asbestos (NOA) containing rocks or soil materials are noted in boring logs from nearby cleanup sites. No asbestos was detected by laboratory analysis for NOA in soil and rock samples collected within the study area, which included samples of all soil and rock types observed in the study area.

Taber Consultants observed petroleum hydrocarbon impacted soils in soil borings on Blairs Lane north of Hangtown Creek. Based on PID readings and soil analytical from the soil samples collected in soil borings SB-4, SB-6 andSB-7, the following petroleum hydrocarbon impacts were observed:

- On the east side of Blairs Lane north of Hangtown Creek: petroleum hydrocarbon impacts are located in shallow soils from approximately 3 to 6 feet bgs in the vicinity of SB-4 and SB-5 (with PID readings of 606 and 209 ppmv, respectively, and soil analytical impacts in SB-5 of 79 mg/kg TPH-G, 20 mg/kg TPH-D and other petroleum hydrocarbon compounds).

- On the west side of Blairs Lane, near the northwest corner of the Blairs Lane Bridge, evidence of petroleum hydrocarbon impacts were observed in PID readings and soil analytical from approximately 5 feet bgs to 11.5 feet bgs in SB-7 (205 ppmv at 10.5 feet bgs and 15 mg/kg TPH-G, 190 mg/kg TPH-D and other petroleum hydrocarbon compounds).

Taber Consultants observed chlorinated ethenes-impacted soil at approximately 6-8 feet bgs in soil boring SB-7 in a disturbed sample of silty sand taken from drill cuttings (0.013 mg/kg PCE). No other soil samples from any of the soil borings were reported to contain chlorinated ethenes above the laboratory reporting limits.

Groundwater was encountered at approximately 9.0 feet bgs in borings advanced on Broadway along the proposed sewer alignment. Groundwater was encountered at approximately 7.0 feet bgs in borings advanced on Blairs Lane north of Hangtown Creek.

Taber Consultants observed petroleum hydrocarbon and chlorinated ethenes impacts on groundwater in soil borings on Broadway and Blairs Lane, as follows:

- On the north side of Broadway about 65 feet west of Blairs Lane, groundwater from soil boring SB-1 had 92 µg/l PCE, 10 µg/l TCE, and 44 µg/l 1,2-DCE, soil boring SB-3 on Broadway south of 1261 Broadway had 4.5 µg/l PCE. Groundwater samples from soil borings SB-1 and SB-3 0.081 mg/l and 0.057 mg/l TPH-G, respectively.

- On the east and west side of Blairs Lane, groundwater was impacted with petroleum hydrocarbons. Concentrations ranges of petroleum hydrocarbons in groundwater samples from soil borings SB-4, SB-5 and SB-7 had the following ranges: from 3.7 to 28 mg/l TPH-G; from less than 0.05 mg/l to 2.5 mg/l TPH-D; from 1.9 to 82 µg/l benzene, from less than 0.05 µg/l to 16 µg/l toluene; from 0.82 µg/l to 1,200 µg/l ethyl benzene; from less than 1 µg/l to 2,700 µg/l m,p-xylenes; from less than 0.50 µg/l to 5.4 µg/l o-xylenes; and from 9.8 µg/l to 330 µg/l naphthalene).

- Chlorinated ethenes as PCE and TCE were not observed in groundwater samples from SB-4, SB-5, or SB-6, however 1.6 µg/l 1,2-DCE was observed in the groundwater sample from soil boring SB-7.

6.2 Discussion - Soil and Groundwater Impacts

6.2.1 Environmental Screening Levels (ESLs)

Taber Consultants compared the analytical data from soil and groundwater sampled during the December 2014 investigation with Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (Region 2). The Region 2 ESLs consider adverse environmental effects in addition to direct human health impacts due to the presence of petroleum hydrocarbon, chlorinated ethenes and other compounds. The Region 2 ESLs, revised in December 2013, were based on the January 2005 California Human Health Screening Levels ("CHHSLs"), which were developed under the California Land Environmental Restoration and Reuse Act of 2002 by the CalEPA Office of Environmental Health Hazard Assessment (OEHHA). Through 2008 and 2013 updates, the ESLs were expanded to address potential groundwater or surface water protection concerns.

The CHHSLs were designed to protect human health from direct and indirect exposure to contaminated soil through ingestion and dermal absorption, the inhalation of vapors and dust outdoors, and the inhalation of subsurface vapors that have been emitted to the interiors of buildings. They were developed using the standard exposure assumptions and chemical toxicity values embodied in the USEPA Region 9 Preliminary Remediation Goals ("PRGs"). The Region 2 ESLs, however, use Cal/EPA toxicity and skin absorption factors for specific contaminants, when available, rather than using those factors published by USEPA. Because the Region 2 ESLs incorporate the CHHSLs, the assessments' respective screening levels for soil and soil gas are essentially identical, except that the Region 2 ESLs have used a more conservative hazard quotient of 0.2 to calculate screening levels for non-carcinogens.

Region 2 ESLs are therefore the most authoritative and conservative screening levels available to ensure adequate compliance to California standards. Region 2 ESLs are widely used as a first-tier evaluation to assess potential health hazard risks at sites that have been impacted by hazardous material releases.

During the December 2014 site investigation, Taber Consultants identified areas of soil and groundwater that exceeded ESLs established for sites with commercial or industrial land use. In soil boring SB-7 at 10.5 feet bgs, the concentration of TPH-D exceeded the ESL for TPH-D in soil. The groundwater sample from soil boring SB-5 exceeded the ESLs for benzene, ethyl benzene, total xylenes, and naphthalene. The groundwater sample from soil boring SB-7 exceeded the ESL for naphthalene. In this instance, exceedance of the ESLs indicate there are potential negative human health effects to workers as a result of the petroleum hydrocarbon and chlorinated ethene concentrations present in soil and groundwater, therefore precautions should be taken with respect to worker health and safety during construction *vis a vis* a Health and Safety Plan (HASP) and a Risk Management Plan for Soil and Groundwater.

6.2.2 Historical and Present Site Conditions

During Taber Consultants 2007 *Limited Environmental Subsurface Site Investigation*, petroleum hydrocarbons and chlorinated ethenes impacts were observed immediately north of Blairs Lane Bridge in soil borings B-4 (west of Blairs Lane) and B-5 (east of Blairs Lane), summarized in Tables 1 and 2 of that report (Appendix G). During that investigation, soil impacts from petroleum hydrocarbons and groundwater impacts from petroleum hydrocarbons and chlorinated ethenes were observed. Of particular concern were the analytical concentrations of TPH-G, benzene, PCE, TCE and 1,2-DCE observed in groundwater samples from B-4 and B-5. During the December 2014 investigation, concentrations of these compounds were lower or below laboratory reporting limits, as indicated in Table 7.

Table 6.2.2-1. Concentrations of Selected Petroleum Hydrocarbons and Chorinated Ethenes in Groundwater

Sample Location	Date	TPH-G (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Xylenes[1] (µg/l)	Naph-thalene (µg/l)
B-4[a]	3/20/2007	**1,200**	**4.8**	<1.0	**12**	**4.3**	**30**
B-5[b]	3/20/2007	**780**	**10**	**4.2**	**3.8**	**10**	**40**
SB-4[b]	12/18/2014	**3.7**	**1.9**	**1.4**	**0.82**	**4.6**	**330**
SB-7[a]	12/18/2014	**26**	**2.6**	<0.50	**3.6**	**ND**	**88**

[1]In 2007 m,p-xylenes and o-xylenes were totaled. 2014 m,p-xylenes and o-xylenes are summed for comparison.
mg/l = milligram per liter; µg/l = microgram per liter; numbers in bold represent detections above the laboratory reporting limit
[a]East side of Blairs Lane.
[b]West side of Blairs Lane.
ND = below laboratory reporting limits.

With respect to petroleum hydrocarbons, the two gasoline stations to the east and west of Blairs Lane north of Hangtown Creek are currently active, and may be the source areas of the petroleum hydrocarbon impacts identified by this assessment.

Table 6.2.2-2. Concentrations of Selected Petroleum Hydrocarbons and Chorinated Ethenes in Groundwater

Sample Location	Date	PCE (µg/l)	TCE (µg/l)	1,2-DCE (µg/l)
B-4[a]	3/20/2007	**440**	**40**	**80**
B-5[b]	3/20/2007	**26**	**43**	**16**
SB-4[b]	12/18/2014	<1.0	<1.0	<0.50
SB-7[a]	12/18/2014	<1.0	<1.0	**1.6**

mg/l = milligram per liter; µg/l = microgram per liter;
[a]East side of Blairs Lane
[b]West side of Blairs Lane

The source of the chlorinated ethenes identified in this assessment is not fully identifiable. Although a former dry cleaning location is approximately 500 feet to the west on Broadway and is a likely source of chlorinated ethenes identified groundwater in boring SB-3, another source (or sources) may exist upstream along sewer lines or other utility conduits east of the project area which contribute to the chlorinated ethene concentrations identified in boring SB-1. Because the chlorinated ethene concentrations have decreased in groundwater in boring locations where Taber Consultants can make historical comparisons, it appears to be a historical source that is not currently contributing additional chlorinated ethenes.

6.3 Recommendations

In accordance with Section 25507 of the California Health and Safety Code, this report should be submitted to the El Dorado County Environmental Management Department. Additionally, a copy of this report should be submitted to the Central Valley Regional Water Quality Control Board.

In summary, Taber Consultants has identified the following applicable Caltrans 2010 Standard Special Provisions and Non-Standard Special Provisions (SSPs and nSSPs) relative to hazardous materials assessed within the study area:

- SSP 7-1.02K(6)(j)(iii) Earth Material Containing Lead
- nSSP 14 9.02 Air Quality, NESHAP Notification
- SSP 14-11.08 Disturbance of Existing Paint Systems on Bridges
- 14-11.09 Treated Wood Waste[1]
- nSSP 14-11.11 Management Of Asbestos Containing Materials

The SSPs and nSSP 14-11.11 are included in Appendix I. The Resident Engineer should work with the Caltrans Hazardous Waste Specialist for District 3 to ensure that language used in the SSPs and nSSPs is adequate to address concerns Caltrans' may have about construction of the project. Caltrans SSPs and nSSPs are project specific, and may vary project to project. Additionally, the language of Caltrans SSPs and nSSPs are subject to change at Caltrans' discretion, and may be updated without notice.

Soil excavated from the soil surface to bedrock below the bridge should be either (1) managed and disposed of as a California hazardous waste since the WET lead concentration is greater than the STLC value for lead of 5.0 mg/l, or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria.

The bridge paint on the wooden rails and posts is in poor condition. Due to lead in the paint material samples, the painted surfaces must be disposed of in accordance with the SSP 14-11.08, Disturbance Of Existing Paint Systems On Bridges. This provision addresses soil sampling prior to and after abatement of lead based paint on the bridge.

A single "Lead Compliance Plan" should be prepared for the project because of lead in the soils adjacent to the roadways in the study area and lead-based paint on the bridge (Section 7-1.02K(6)(j)(ii) of the Standard Specifications and Section 7-1.02K(6)(j)(iii) of the standard special provisions). The Special Provisions should be included in the Contract requiring a Health & Safety Plan for workers in accordance with Cal OSHA Title 8, Section 1532.1. With

[1] *Treated Wood Waste (TWW) was identified in Taber Consultants December 16, 2014 Initial Site Assessment and Preliminary Site Investigation Work Plan.*

respect to lead in the paint, the Special Provisions should address paint abatement prior to construction, soil sampling before and after lead paint abatement, worker protections with respect to handling of materials coated with lead-based paint, temporary storage, testing, and transportation to an appropriate disposal or recycling facility.

In the Lead Compliance plan, the Resident Engineer should have the contractor provide written documentation that recycling or disposal facilities acknowledge the potential for lead on the material received. Because soils are unlikely to be retained on the construction site, the SSPs should specify that the soil be disposed in an appropriate landfill facility.

Written notification to the El Dorado Air Quality Management District (AQMD) of demolition or renovation operations on structures are required at least 10 business days prior to conducting the work, regardless of the presence or absence of ACM. The applicable Caltrans Nonstandard Standard Special Provision (nSSP) is 14 9.02 -- Air Quality, NESHAP Notification. Because ACM was identified in construction materials on the bridge, nSSP 14-11.11, Management Of Asbestos Containing Materials, should be used.

The AQMD has Construction Dust Rules relative to naturally occurring asbestos (NOA). No NOA was detected in soil samples from the study area, however a Fugitive Dust Control Plan and application fee must be still submitted to in order to comply with AQMD Rule 223-2 Fugitive Dust-Asbestos Hazard Mitigation Section 2.2.B.

Based on the data collected above, a Health and Safety Plan ("HASP") should be prepared by a Certified Industrial Hygienist (CIH) for use at the site during construction of the project to address worker health and safety concerns regarding petroleum hydrocarbon compounds and chlorinated ethenes in soil and groundwater, as well as other potential health hazards associated with the sewer realignment (i.e., fecal coliform and other potentially pathogenic bacteria and/or organisms). The HASP should be prepared consistent with Cal OSHA requirements and Caltrans standards. The HASP should incorporate the fact that the soil contains residual petroleum hydrocarbon concentrations above commercial regulatory screening levels. The HASP should provide that on-site personnel shall are briefed on the hazards of encountering petroleum hydrocarbon and chlorinated ethenes impacted soil and groundwater.

Taber Consultants recommends preparation of a Risk Management Plan for Soil and Groundwater, to protect worker health and appropriately manage materials generated during construction. The Risk Management Plan for Soil and Groundwater should include provisions for treatment of soils and groundwater during construction activities as follows:

- Notification requirements for the discovery of soils impacted by petroleum hydrocarbons or other compounds.
- Procedures for safe excavation of impacted soils including training requirements for workers and engineering controls to be used during excavation.

- Procedures for soil and groundwater monitoring and identification, temporary storage, handling, treatment, transport and disposal of materials in accordance with applicable federal, state and local regulations and requirements.

A California registered professional should be retained to oversee and screen excavation and dewatering activities due to high likelihood of encountering contaminated soil and/or water during construction.

7.0 GENERAL CONDITIONS AND LIMITATIONS

7.1 General Conditions

The conclusions of this study are professional opinion based upon the indicated project criteria and the limited data described herein. Sampling and testing programs undertaken during construction activities may reveal conditions not identified by this limited study.

This report is intended only for the purpose, study area limits and project description indicated and assumes planning, design and construction in accordance with the latest applicable codes. Changes in study area conditions could occur at any time that might substantially alter the conclusions of this report. The soil and groundwater analytical reports are static documents, i.e. although they are current as of the study, additional spills or releases may occur that have environmental impacts on the project.

A review by this office of any plans and specifications or other work product insofar as they rely upon or implement the content of this report, together with the opportunity to make supplemental evaluations as indicated there-from is considered an integral part and a condition of this study. Should there be significant change in the project, this office should be notified for supplemental evaluation as necessary or appropriate.

Opinions herein apply to current study area conditions and those reasonably foreseeable for the described development -- which includes appropriate operation and maintenance thereof. They cannot necessarily apply to study area changes occurring, made, or induced, of which this office is not aware and has not had opportunity to evaluate.

7.2 Preliminary Site Investigation Report Limitations

This limited subsurface hazardous materials assessment was based on our understanding of the project limits and anticipated construction as described herein. Additional study at specific locations might be warranted if locations, depths, and/or nature of construction shown on final project plans differ from our current understanding.

The interpretations and/or conclusions contained in this Preliminary Site Investigation represent our professional opinions. These opinions are based on currently available information and were developed in accordance with currently accepted geologic, hydrogeologic, and engineering practices at this time and for this specific site in El Dorado County in 2014 and 2015. Other than this, no warranty is implied or intended.

The work was limited to scope of work listed above. The scope of the proposed study was developed and considered appropriate for a PSI based on the recommendations of Taber Consultants December 16, 2014, *Initial Site Assessment and Preliminary Site Investigation Work Plan* prepared for this project.

Caltrans Special Standard Specifications and Non-Standard Specifications (SSPs and nSSPs) discussed in this report are provided for QEI's reference in drafting documents related to the Blairs Lane Bridge Replacement and Sewer Realignment Project. The SSPs and nSSPs may vary based on project-specific conditions and are subject to change and revision at Caltrans' discretion.

The PSI report was prepared for and is intended for the exclusive use of QEI, the City of Placerville and Caltrans. Any reliance on this report by third parties shall be at such parties' sole risk. The work described herein was performed under the direct supervision of a Professional Geologist, registered with the State of California. The findings are relevant to the dates of our site visits and the defined scope of work and should not be relied upon to represent conditions at later dates.

Sincerely,

Taber Consultants

Ellen Pyatt, MSc.
Project Geologist

PROFESSIONAL GEOLOGIST
THOMAS E. BALLARD
No. 961
CERTIFIED
HYDROGEOLOGIST
STATE OF CALIFORNIA

Thomas E. Ballard, P.G. #7299, C.H.G. #961
Principal Hydrogeologist

FIGURES

N

SCALE: 1:24,000

USGS "PLACERVILLE" CA QUADRANGLE 7.5 MINUTE SERIES (TOPOGRAPHIC) DATE 1973

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Quincy Engineering, Inc.

Blairs Lane Bridge at Hangtown Creek
El Dorado County, California
Existing Bridge 25C0012

Vicinity Map

1P2/304/175	November 2014	Figure 1

BLAIRS LANE BRIDGE (25C-0012) REPLACEMENT PROJECT AT HANGTOWN CREEK EL DORADO COUNTY, CALIFORNIA

Federal Aid Project No. BRLS-5925(030)

AREA OF POTENTIAL EFFECTS MAP

Erin Dwyer — Date: 2/26/14
PQS/PI - Preshistoric Archaeology
Environmental Management M1, Caltrans D3

Local Assistance Project Engineer — Date: 2/26/14
Office of Local Assistance, Caltrans D3

ARCHAEOLOGICAL-
Prehistoric and Historic
The Area of Potential Effects includes all existing (and proposed) Right of Way and temporary construction easements.

US HWY 50
APN 002-244-12 WEIR HARLEY E
APN 002-244-13 PROSSER ALTON J TR
APN 002-244-06 VARDANEGA RONALD J
STOUT CT
APN 002-241-23 WEBB GLENN ALAN TR
APN 002-251-18 PUTHUFF JUDITH E
APN 002-244-17 ROBINSON PHARMACY & MEDICAL
APN 002-244-07 WEIR HARLEY E
APN 002-244-16 GIER ROBERT H CO TR
SB-1
SB-2
SB-3
SB-4
SB-5
SB-6
SB-7
SB-8
APN 004-131-38 ORELLI GEORGIE H GAS STATION
APN 004-131-37 ORELLI PATRICK J SUCC TR
BROADWAY
TCE
APN 004-261-24 LDR PARTNERS GAS STATION
OVERHEAD UTILITY EASEMENT
PROPOSED SEWER LINES
HANGTOWN CREEK
APN 004-261-06 PUTHUFF FAMILY PARTNERSHIP
LUCKY ST
EXISTING BOX CULVERT
EXISTING SEWER LINES TO BE ABANDONED
PROPOSED BRIDGE AND WIDENING
NEW UTILITIES
APN 004-131-40 PATEL UMESH D
PROPOSED RETAINING WALL
PROPOSED SIDEWALK
APN 004-261-02 PEIRCE TRUST OF 7/30/92
APN 004-261-25 PACIFIC GAS & ELECTRIC CO
APN 004-131-35 CALIFORNIA STATE OF
APN 004-261-23 PUBA PROPERTIES CA GP
BLAIRS LN
APE BOUNDARY
TCE
PROPOSED RETAINING WALL
BACO DR
APN 004-271-03 BUNCH JEFFRY
APN 004-330-18 ESKATON VILLAGE PLACERVILLE
APN 004-330-15 LAKEMONT VILLAGE PVILLE CA LLC
APN 049-340-20 REVAZ RONALD J

20 0 20 40 60 80
Approximate Scale in Feet

N

- Area of Potential Effects (APE)
- Hangtown Creek
- Existing Box Culvert
- GIS Parcel boundaries
- Road and Bridge Improvements
- Proposed Sewer Alignment
- Proposed New Service Utilities
- Proposed Retaining Wall
- Limits of Grading
- Temporary Construction Easement (TCE)
- Overhead Utility Easement
- Existing Sewer Line
- Proposed Boring Location

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Quincy Engineering, Inc.
Blairs Lane Bridge at Hangtown Creek
El Dorado County, California
Existing Bridge 25C0012
Boring Location Map

1P2/304/175	January 2015	Figure 2

LEGEND

LBP-4 Bridge Paint Sample

S-1 Soil Sample

Note: S-1 and LBP-4 were taken below the bridge.

0 5 10 15 20

Approximate Scale in Feet

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Blairs Lane Bridge at Hangtown Creek
El Dorado County, California
Existing Bridge 25C0012

Lead Samples Location Map

1P2/304/175	January 2015	Figure 3

BLAIRS LANE BRIDGE (25C-0012) REPLACEMENT PROJECT AT HANGTOWN CREEK EL DORADO COUNTY, CALIFORNIA

Federal Aid Project No. BRLS-5925(030)

AREA OF POTENTIAL EFFECTS MAP

Erin Dwyer — Date: 2/26/14
PQS/PI - Preshistoric Archaeology
Environmental Management M1, Caltrans D3

Local Assistance Project Engineer — Date: 2/26/14
Office of Local Assistance, Caltrans D3

ARCHAEOLOGICAL-
Prehistoric and Historic
The Area of Potential Effects includes all existing (and proposed) Right of Way and temporary construction easements.

SB-3	6.5
B	<0.005
TPH-G	<0.5
TPH-D	<0.5
Naph	<0.005
PCE	<0.005

SB-2	5.0
B	<0.005
TPH-G	<0.5
TPH-D	<0.5
Naph	<0.005
PCE	<0.005

SB-1	5.0
B	<0.005
TPH-G	<0.5
TPH-D	<0.5
Naph	<0.005
PCE	<0.005

SB-6	6.5	11.0
B	<0.005	<0.005
TPH-G	<0.5	<0.5
TPH-D	<0.5	<0.5
Naph	<0.005	<0.005
PCE	<0.005	<0.005

SB-5	6.0
B	**0.013**
TPH-G	**79**
TPH-D	**20**
Naph	**1.2**
PCE	<0.005

SB-4	15
B	<0.005
TPH-G	<0.5
TPH-D	<0.5
Naph	<0.005
PCE	<0.005

SB-7	6.0	10.5
B	<0.005	<0.005
TPH-G	<0.5	**15**
TPH-D	<0.5	**190**
Naph	<0.005	**1.1**
PCE	**0.013**	<0.005

SB-8	3.5
B	<0.005
TPH-G	<0.5
TPH-D	<0.5
Naph	<0.005
PCE	<0.005

US HWY 50
APN 002-244-12 WEIR HARLEY E
APN 002-244-13 PROSSER ALTON J TR
APN 002-244-06 VARDANEGA RONALD J
STOUT CT
APN 002-241-23 WEBB GLENN ALAN TR
APN 002-251-18 PUTHUFF JUDITH E
APN 002-244-17 ROBINSON PHARMACY & MEDICAL
APN 002-244-07 WEIR HARLEY E
APN 002-244-16 GIER ROBERT H CO TR
BROADWAY
APN 004-131-38 ORELLI GEORGIE H
GAS STATION
APN 004-131-37 ORELLI PATRICK J SUCC TR
OVERHEAD UTILITY EASEMENT
PROPOSED SEWER LINES
APN 004-261-24 LDR PARTNERS
GAS STATION
APN 004-261-06 PUTHUFF FAMILY PARTNERSHIP
LUCKY ST
HANGTOWN CREEK
EXISTING BOX CULVERT
EXISTING SEWER LINES TO BE ABANDONED
PROPOSED BRIDGE AND WIDENING
NEW UTILITIES
APN 004-131-40 PATEL UMESH D
PROPOSED RETAINING WALL
APN 004-261-02 PEIRCE TRUST OF 7/30/92
PROPOSED SIDEWALK
APN 004-261-25 PACIFIC GAS & ELECTRIC CO
APN 004-131-35 CALIFORNIA STATE OF
APN 004-261-23 PUBA PROPERTIES CA GP
BLAIRS LN
APE BOUNDARY
TCE
PROPOSED RETAINING WALL
BACO DR
APN 004-271-03 BUNCH JEFFRY
APN 004-330-18 ESKATON VILLAGE PLACERVILLE
APN 004-330-15 LAKEMONT VILLAGE PVILLE CA LLC
APN 049-340-20 REVAZ RONALD J

LEGEND

SB-7 6.5
B <0.005 — Soil Boring Identification; Depth of Sample (feet); Benzene Concentration In Milligrams Per Killogram (mg/kg)
TPH-G <0.5 — Total Petroleum Hydrocarbons As Gasoline (mg/kg)
TPH-D <0.005 — Total Petroleum Hydrocarbons As Diesel (mg/kg)
Naph <0.005 — Naphthalene (mg/kg)
PCE <0.005 — Tetrachloroethene (mg/kg)

20 0 20 40 60 80
Approximate Scale in Feet

- Area of Potential Effects (APE)
- Hangtown Creek
- Existing Box Culvert
- GIS Parcel boundaries
- Road and Bridge Improvements
- Proposed Sewer Alignment
- Proposed New Service Utilities
- Proposed Retaining Wall
- Limits of Grading
- Temporary Construction Easement (TCE)
- Overhead Utility Easement
- Existing Sewer Line
- Proposed Boring Location

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Quincy Engineering, Inc.
Blairs Lane Bridge at Hangtown Creek
El Dorado County, California
Existing Bridge 25C0012
Soil Analytical Summary

1P2/304/175	January 2015	Figure 4

BLAIRS LANE BRIDGE (25C-0012) REPLACEMENT PROJECT AT HANGTOWN CREEK EL DORADO COUNTY, CALIFORNIA

Federal Aid Project No. BRLS-5925(030)

AREA OF POTENTIAL EFFECTS MAP

Erin Dwyer — 2/26/14
PQS/PI - Preshistoric Archaeology
Environmental Management M1, Caltrans D3 — Date

Local Assistance Project Engineer — 2/26/14
Office of Local Assistance, Caltrans D3 — Date

ARCHAEOLOGICAL-
Prehistoric and Historic
The Area of Potential Effects includes all existing (and proposed) Right of Way and temporary construction easements.

SB-1	
B	<0.50
TPH-G	**0.081**
TPH-D	<0.05
Naph	<1.0
PCE	**92**
TCE	**10**
1,2-DCE	**44**

SB-2	
B	<0.50
TPH-G	<0.05
TPH-D	<0.05
Naph	<1.0
PCE	<1.0
TCE	<1.0
1,2-DCE	<0.50

SB-3	
B	<0.50
TPH-G	**0.057**
TPH-D	<0.05
Naph	<1.0
PCE	**4.5**
TCE	<1.0
1,2-DCE	<0.50

SB-4	
B	**1.9**
TPH-G	**3.7**
TPH-D	**1.2**
Naph	**9.8**
PCE	<1.0
TCE	<1.0
1,2-DCE	<0.50

SB-5	
B	**82**
TPH-G	**28**
TPH-D	**2.5**
Naph	**330**
PCE	<1.0
TCE	<1.0
1,2-DCE	<0.50

SB-6	
B	<0.50
TPH-G	**0.061**
TPH-D	<0.05
Naph	<1.0
PCE	<1.0
TCE	<1.0
1,2-DCE	<0.50

SB-7	
B	**2.6**
TPH-G	**26**
TPH-D	<0.05
Naph	**88**
PCE	<1.0
TCE	<1.0
1,2-DCE	**1.6**

SB-8 (NS)

US HWY 50
APN 002-244-12 WEIR HARLEY E
APN 002-244-13 PROSSER ALTON J
APN 002-244-06 VARDANEGA RONALD J
STOUT CT
APN 002-241-23 WEBB GLENN ALAN TR
APN 002-251-18 PUTHUFF JUDITH E
APN 002-244-17 ROBINSON PHARMACY & MEDICAL
APN 002-244-07 WEIR HARLEY E
APN 002-244-16 GIER ROBERT H CO TR
BROADWAY
APN 004-131-38 ORELLI GEORGIE H GAS STATION
APN 004-131-37 ORELLI PATRICK J SUCC TR
OVERHEAD UTILITY EASEMENT
PROPOSED SEWER LINES
APN 004-261-24 LDR PARTNERS GAS STATION
APN 004-261-06 PUTHUFF FAMILY PARTNERSHIP
LUCKY ST
HANGTOWN
EXISTING BOX CULVERT
EXISTING SEWER LINES TO BE ABANDONED
PROPOSED BRIDGE AND WIDENING
NEW UTILITIES
APN 004-131-40 PATEL UMESH D
PROPOSED RETAINING WALL
APN 004-261-02 PEIRCE TRUST OF 7/30/92
PROPOSED SIDEWALK
APN 004-261-25 PACIFIC GAS & ELECTRIC CO
APN 004-131-35 CALIFORNIA STATE OF
APN 004-261-23 PUBA PROPERTIES CA GP
BLAIRS LN
APE BOUNDARY
TCE
PROPOSED RETAINING WALL
BACO DR
APN 004-271-03 BUNCH JEFFRY
APN 004-330-18 ESKATON VILLAGE PLACERVILLE
APN 004-330-15 LAKEMONT VILLAGE PVILLE CA LLC
APN 049-340-20 REVAZ RONALD J

LEGEND

(NS) Groundwater not sampled.

SB-2 (Soil Boring Identification)

B	<0.50 Benzene Concentration In Milligrams Per Liter (µg/l)
TPH-G	<0.05 Total Petroleum Hydrocarbons As Gasoline (mg/l)
TPH-D	<0.05 Total Petroleum Hydrocarbons As Diesel (mg/l)
Naph	<1.0 Naphthalene (µg/l)
PCE	<1.0 Tetrachloroethene (µg/l)
TCE	<1.0 Trichloroethene (µg/l)

20 0 20 40 60 80
Approximate Scale in Feet

- Area of Potential Effects (APE)
- Hangtown Creek
- Existing Box Culvert
- GIS Parcel boundaries
- Road and Bridge Improvements
- Proposed Sewer Alignment
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- Existing Sewer Line
- Proposed Boring Location

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Quincy Engineering, Inc.

Blairs Lane Bridge at Hangtown Creek
El Dorado County, California
Existing Bridge 25C0012

Groundwater Analytical Summary

1P2/304/175	January 2015	Figure 5

TABLES

TABLE 1.
SOIL AND PAINT ANALYTICAL RESULTS
Blairs Lane Bridge (Replacement) at Hangtown Creek
City of Placerville, El Dorado County, California

Sample Name	Location	Sample Type	Total Lead (mg/kg)	STLC Lead (mg/l)
S-1	Southwest corner near abutment below paint dripline	Soil	**110**	**17**
LBP-1	Lateral railing on southwest corner of bridge railing	White Paint	**10**	--
LBP-2	Vertical posts on southwest corner of bridge railing	White Paint	**86**	--
LBP-3	Lateral surfaces in southeast corner of bridge railing	White Paint	**6,200**	--
LBP-4	Lateral surfaces in northwest corner of bridge railing	Orange Paint	**23,000**	--

Explanation
STLC = Soluble Threshhold Limit Concentration lead analyzed using EPA method 6010B with citric acid extraction (CA-WET).
mg/kg = milligram per kilogram.
mg/l = milligram per liter.

LBP = Lead Based Paint
S = Soil

-- = Sample not analyzed
Total lead analyzed using EPA method 6010B.

TABLE 2.
SOIL ANALYTICAL RESULTS
Blairs Lane Bridge (Replacement) at Hangtown Creek
City of Placerville, El Dorado County, California

Sample Location	Soil Sample Depth (feet)	Date	TPH-G (mg/kg)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	m,p-Xylenes (mg/kg)	o-Xylene (mg/kg)	Naphthalene (mg/kg)	PCE (mg/kg)	n-Butyl benzene (mg/kg)	sec-Butyl benzene (mg/kg)	tert-Butyl benzene (mg/kg)	Isopropyl benzene (mg/kg)	n-Propyl benzene (mg/kg)	p-Isopropyl toluene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)
SB-1	10	12/18/14	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
SB-2	5	12/18/14	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
SB-3	8	12/18/14	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
SB-4	15	12/19/14	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
SB-5	6	12/19/14	**79**	**20**	**0.13**	**0.013**	**0.61**	**0.1**	<0.005	**1.2**	<0.005	**0.46**	**0.13**	**0.012**	**0.26**	**0.87**	**0.12**	**0.032**	**0.0095**
SB-6	6.5	12/22/14	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
SB-6	11	12/22/14	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
SB-7	6	12/22/14	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	**0.013**	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
SB-7	10.5	12/22/14	**15**	**190**	<0.005	<0.005	<0.005	<0.010	<0.005	**1.1**	<0.005	**2.2**	**0.29**	**0.033**	**0.013**	**1.8**	**0.006**	<0.005	<0.005
SB-8	3.5	12/22/14	<0.5	<10	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005
ESL (soil)			**500**	**110**	**1.2**	**9.3**	**4.7**	**11**	--	**4.8**	**2.6**	--	--	--	--	--	--	--	--

mg/kg = milligrams per kilogram
TPH-G = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B.
TPH-D = Total petroleum hydrocarbons as diesel, analyzed by EPA Method 8015C.
Benzene, toluene, ethylbenzene, total xylenes, naphthalene, n-Butylbenzene , sec-Butylbenzene, tert-Butylbenzene, Isopropylbenzene, n-Propylbenzene, p-Isopropyltoluene, 1,3,5-Trimethylbenzene, and 1,2,4-Trimethylbenzene analyzed by EPA Method 8260B.
PCE = Tetrachloroethene analyzed by EPA Method 8260B.
ESL = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board, Commercial or Industrial use (Interim Final – December 2013).
ESL established for total xylenes, with no detections of o-Xylene the ESL was listed under the m,p-Xylenes column.
-- = No ESL established.
Other consistuents analyzed by EPA Method 8260 were not detected above the laboratory reporting limit.

TABLE 3.
GROUNDWATER ANALYTICAL RESULTS
Blairs Lane Bridge (Replacement) at Hangtown Creek
City of Placerville, El Dorado County, California

Sample ID	Date	TPH-G (mg/l)	TPH-D (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	m,p-Xylenes (µg/l)	o-Xylene (µg/l)	PCE (µg/l)	TCE (µg/l)	cis-1,2-DCE (µg/l)	Naphthalene (µg/l)	n-Butyl benzene (µg/l)	sec-Butyl benzene (µg/l)	tert-Butyl benzene (µg/l)	Isopropyl benzene (µg/l)	n-Propyl benzene (µg/l)	p-Isopropyl toluene (µg/l)	1,3,5-Trimethylbenzene (µg/l)	1,2,4-Trimethylbenzene (µg/l)
SB-1	12/18/2014	**0.081**	<0.05	<0.50	<0.50	<0.50	<1.0	<0.50	**92**	**10**	**44**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<25
SB-2	12/18/2014	<0.05	<0.05	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<25
SB-3	12/18/2014	**0.057**	<0.05	<0.50	<0.50	<0.50	<1.0	<0.50	**4.5**	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<25
SB-4	12/19/2014	**3.7**	**1.2**	**1.9**	**1.4**	**0.82**	**3.4**	**1.2**	<1.0	<1.0	<0.50	**9.8**	**29**	**12**	**1.5**	**4.9**	**21**	<1.0	<25	<25
SB-5	12/19/2014	**28**	**2.5**	**82**	**16**	**1,200**	**2,700**	**5.4**	<1.0	<1.0	<0.50	**330**	**110**	**28**	**4.0**	**82**	**500**	**86**	**560**	**1,600**
SB-6	12/22/2014	**0.061**	<0.05	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<25
SB-7	12/22/2014	**26**	<0.05	**2.6**	<0.50	**3.6**	<1.0	<0.50	<1.0	<1.0	**1.6**	**88**	**290**	**86**	**22**	**66**	**340**	**2.8**	<25	<25
ESL		**500**	**640**	**46**	**130**	**43**	**100**	--	**120**	**360**	**590**	**24**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**

Notes:
µg/l - micrograms per liter
WQNL - Water Quality Numerical Limit. Table 1. RWQCB Tri Regional Guidelines. April 16, 2004
Cells highlighted in yellow are greater than WQNLs

TPH-G = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B.
TPH-D = Total petroleum hydrocarbons as diesel, analyzed by EPA Method 8015C.
Benzene, toluene, ethylbenzene, m,p-xylenes and o-xylene analyzed by EPA Method 8260B.
PCE = Tetrachloroethene analyzed by EPA Method 8260B.
TCE = Trichloroethene analyzed by EPA Method 8260B.
cis-1,2-DCE= 1,2-Dichloroethene analyzed by EPA Method 8260B.
Naphthalene, n-Butylbenzene , sec-Butylbenzene, tert-Butylbenzene, Isopropylbenzene, n-Propylbenzene, p-Isopropyltoluene, 1,3,5-Trimethylbenzene, and 1,2,4-Trimethylbenzene analyzed by EPA Method 8260B.
ESL = Environmental Screening Level - San Francisco Bay Regional Water Quality Control Board, Commercial or Industrial use (Interim Final – December 2013).
ESL established for total xylenes, with no detections of o-Xylene the ESL was listed under the m,p-Xylenes column.
-- = No ESL established.
Other consistuents analyzed by EPA Method 8260 were not detected above the laboratory reporting limit.

APPENDIX A.

AREA OF POTENTIAL EFFECTS (APE) MAP

BLAIRS LANE BRIDGE (25C-0012) REPLACEMENT PROJECT AT HANGTOWN CREEK EL DORADO COUNTY, CALIFORNIA

Federal Aid Project No. BRLS-5925(030)

AREA OF POTENTIAL EFFECTS MAP

Erin Dwyer — 2/26/14
PQS/PI - Preshistoric Archaeology
Environmental Management M1, Caltrans D3
Date

Local Assistance Project Engineer — 2/26/14
Office of Local Assistance, Caltrans D3
Date

ARCHAEOLOGICAL-
Prehistoric and Historic
The Area of Potential Effects includes all existing (and proposed) Right of Way and temporary construction easements.

US HWY 50
APN 002-244-12 WEIR HARLEY E
APN 002-244-13 PROSSER ALTON J TR
APN 002-244-06 VARDANEGA RONALD J
STOUT CT
APN 002-241-23 WEBB GLENN ALAN TR
APN 002-251-18 PUTHUFF JUDITH E
APN 002-244-17 ROBINSON PHARMACY & MEDICAL
APN 002-244-07 WEIR HARLEY E
APN 002-244-16 GIER ROBERT H CO TR
APN 004-131-38 ORELLI GEORGIE H GAS STATION
APN 004-131-37 ORELLI PATRICK J SUCC TR
BROADWAY
TCE
APN 004-261-24 LDR PARTNERS GAS STATION
OVERHEAD UTILITY EASEMENT
PROPOSED SEWER LINES
HANGTOWN CREEK
APN 004-261-06 PUTHUFF FAMILY PARTNERSHIP
LUCKY ST
EXISTING BOX CULVERT
EXISTING SEWER LINES TO BE ABANDONED
PROPOSED BRIDGE AND WIDENING
NEW UTILITIES
APN 004-131-40 PATEL UMESH D
PROPOSED RETAINING WALL
APN 004-261-02 PEIRCE TRUST OF 7/30/92
PROPOSED SIDEWALK
APN 004-261-25 PACIFIC GAS & ELECTRIC CO
APN 004-131-35 CALIFORNIA STATE OF
APN 004-261-23 PUBA PROPERTIES CA GP
BLAIRS LN
APE BOUNDARY
TCE
PROPOSED RETAINING WALL
BACO DR
APN 004-271-03 BUNCH JEFFRY
APN 004-330-18 ESKATON VILLAGE PLACERVILLE
APN 004-330-15 LAKEMONT VILLAGE PVILLE CA LLC
APN 049-340-20 REVAZ RONALD J

80 40 0 80 Feet
Scale: 1 inch = 80 feet
N

- Area of Potential Effects (APE)
- Hangtown Creek
- Existing Box Culvert
- GIS Parcel boundaries
- Road and Bridge Improvements
- Proposed Sewer Alignment
- Proposed New Service Utilities
- Proposed Retaining Wall
- Limits of Grading
- Temporary Construction Easement (TCE)
- Overhead Utility Easement
- Existing Sewer Line

Proposed: 95% Submittal Construction Plans on Blain Lane For Hangtown Creek Bridge Replacement Project, CAD: p196rhv_ACAD.dwg by Quincy Engineering (17 December 2013)
Microsoft Imagery, ESRI ArcGIS Basemap Service Layer
Parcels and Roads: El Dorado County, GIS datasets (Dec 2011)

Aerial Photograph: 14 August 2011, UC-G, US-CA-Placerville,
Note: Aerial is not orthorectified.

APPENDIX B.

NATIONAL ANALYTICAL LABORATORIES, INC. REPORT

Asbestos Building
Inspection Report For:

Blairs Lane Bridge, at Hangtown Creek

+38.73167, -120.78333
Placerville, CA 95667
PO # 14-253

Presented To:

Ellen Pyatt

Taber Consultants
3911 West Capitol Avenue
West Sacramento, CA 95619

By:

Michael Lee
Certified Asbestos Consultant

National Analytical Laboratories, Inc.
2201 Francisco Dr., Ste.140-261
El Dorado Hills, CA 95762
(916) 361-0555 Fax: (916) 361-0540
E-Mail: NAL1@NAL1.com Web Page: www.NAL1.com

December 16, 2014

Ellen Pyatt
Taber Consultants
3911 West Capitol Avenue
West Sacramento, CA 95619

RE: Asbestos Inspection – Blairs Lane Bridge, at Hangtown Creek

Dear Ms. Pyatt,

The following report is in regards to the asbestos building inspection completed at the, Blairs Lane Bridge, at Hangtown Creek, located at +38.73167, -120.78333, in Placerville, CA. Of the six (6) suspected asbestos containing samples collected, two (2) were found to contain asbestos containing construction materials (ACCM). Michael Lee, Certified Asbestos Consultant and Registered Environmental Property Assessor (REPA), conducted the inspection.

Mr. Lee performed an entire bridge walk around to visually assess the bridge structure. The bridge system is a concrete deck (overlaid with asphalt) over a Metal I beam support system mounted on a concrete abutments (North & South) with a Wood rail system.

The inspection was completed on December 15, 2014. The inspection was completed according to the EPA's Asbestos Containing Building Materials (ACBM) In-Schools Rule; 40 CFR 763.85 (Inspection and Re-Inspection). Currently, EPA regulations classify ACBM as materials containing more that 1-percent (1%) of asbestos. Cal-OSHA currently regulates asbestos to 1/10th of 1% (0.1%) and requires that a certified asbestos worker conduct this work.

MicroTest Laboratories, Inc., located in Fair Oaks, California analyzed the bulk suspect asbestos containing samples, utilizing Polarized Light Microscopy (PLM) Method. National Voluntary Laboratory Accreditation Program (NVLAP) Certification #200999-0 certifies MicroTest.

Based on the sample results the Compression Shim and the TSI (thermal systems insulation) were found to contain ACCM. All square footage should be verified by contractor. No destructive sampling was conducted during the site visit, in the event that future renovation and/or demolition work reveals any unforeseen suspect materials; the contractor shall contact the project manager for further testing.

Federal and state regulations require that anyone disturbing asbestos containing materials are properly trained certified and have the required respiratory protection and medical surveillance.

Although not all the rooms or materials throughout the site were sampled, the like materials that were not tested will be treated as homogeneous to the materials that were tested and will be considered as containing ACCM.

breath easy....
2201 Francisco Dr., Ste.140-261 | El Dorado Hills, CA 95762
Phone: (916) 361-0555 | Fax: (916) 361-0540

The location and results of suspect samples found to contain ACCM are as follows:

Sample ID#	Material	Location	Category	Results
BLB-1	TSI	East Side Pipe (30 lf)	RACM	40% Chrysotile
BLB-2	Compression Shim	South Side I Beam, Foot Support (-10 sf)	II	40% Chrysotile

The TSI is considered Friable-Hazardous Materials that when disturbed and/or removed must be disposed of at a regulated waste facility. The Compression Shim is considered Category II, non-friable/non hazardous material that can be removed and disposed of at a non-hazardous waste facility.

N.A.L. recommends that a certified asbestos abatement contractor be retained to remove the friable and non-friable materials prior to any scheduled renovation/demolition work being completed at the site. Prior to the work process starting a work plan or specifications in regards to the abatement process should be completed and distributed to the abatement contractors during the job walk at the site.

On-Site Observation should be conducted by N.A.L.'s Certified Asbestos Consultant or Certified Site Surveillance Technician to verify that the work plan/specification is being followed. This will verify that during the abatement work the outside air was clean. Once a certified asbestos contractor has removed the ACCM, following EPA and OSHA requirements; a visual inspection and air clearance sampling should be completed. Clearances will confirm that the general contractor can reoccupy the work area(s), without concern for exposure to asbestos airborne fibers to their employees thus allowing the renovation or demolition work to be completed by the general contractor.

The following samples were non-asbestos containing materials:

Sample ID#	Material	Location	Results
BLB-3	Asphalt Compression Felt	South Side Abutment/Dec Intersection (-300 sf)	None Detected
BLB-4	Structural Concrete	Concrete Abutment System, South Side, East and West areas, Multi-Hit Composite (-800 sf)	None Detected
BLB-5	Structural Concrete	Concrete Deck System, East and West Sides, Middle, and South Side of Span Multi-Hit Composite (-150 sf)	None Detected
BLB-6	White Paint	Wood Rail System, East and West Sides, Various Area (-175 sf)	None Detected

If you have any questions regarding this report or if we can be of further assistance, please contact our office.

Reviewed and submitted by:

Michael Lee
Certified Asbestos Consultant 06-4047

TSI (Thermal Systems Insulation) 40% Chrysotile

breath easy....
2201 Francisco Dr., Ste.140-261 | El Dorado Hills, CA 95762
Phone: (916) 361-0555 | Fax: (916) 361-0540

Compression Shim – 40% Chrysotile

breath easy....
2201 Francisco Dr., Ste.140-261 | El Dorado Hills, CA 95762
Phone: (916) 361-0555 | Fax: (916) 361-0540

breath easy....
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Phone: (916) 361-0555 | Fax: (916) 361-0540

MicroTest™ Laboratories, Inc.
NVLAP Lab Code 200999-0
5150 Sunrise Blvd, Suite B-1 Fair Oaks, CA 95628
Phone (916) 567-9808 or (800) 713-3334
microtestlabsinc@yahoo.com

Client :	**NAL** 2201 Francisco Drive, Suite 140-2611 El Dorado Hills, CA 95762	**Contact Name:** **Contact Name:** **Sampler:**	Anthony De Arcos Paula Lee Michael Lee	**Accession :** **Analyst:**	28530-28535 A. Nagra
Project:	Blairs Lane Bridge at Hangtown Creek +38.73167, -120.78333 Placerville, CA	**Sampling Date:** **Receipt Date:** **Report Date:**	12/15/14 12/16/14 12/16/14	**Samples Received:** **Samples Analyzed:**	6 6

Polarized Light Microscopy Test Report, EPA/600/R-93/116

Sample ID	Description	Fibrous/Non-Fibrous Material		Asbestiform Minerals
East Side BLB-1 Lab ID: 28530	White TSI	Binder	60%	40% Chrysotile Asbestos
South Side BLB-2 Lab ID: 28531	Gray Compression Shim	Binder	60%	40% Chrysotile Asbestos
South Side BLB-3 Lab ID: 28532	Black Felt	Cellulose Binder	10% 90%	None Detected
Concrete Abutment BLB-4 Lab ID: 28533	Gray Concrete	Binder	99%	None Detected
Concrete Deck BLB-5 Lab ID: 28534	Gray Concrete	Binder	99%	None Detected
Wood Rail BLB-6 Lab ID: 28535	White Paint	Binder	99%	None Detected

Laboratory Director: Rebecca Hutty Analyst: A. Nagra Analyst: M. Nguyen

28530 - 28535

N·A·L ENVIRONMENTAL TESTING & CONSULTING

NAL LOG-IN RECORD

Login # 34782

Ph: 916.361.0555 Fx: 916.361.0540

National Analytical Laboratories, Inc.

Job Site/Job #:

Client#-Lot#	4443 / 27
Taber Consultants	
Phone Number	
FAX Number	
Contact	
E-Mail Address	

Blairs Lane Bridge at Hangtown Creek

+38.73167, -120.78333

Placerville, CA

PO # 14-253

Job #: 1P2 304 175

Date	12/15/2014
Sampling Date:	12/15/2014
Sampling Time	8:00:00 AM
Type of Work:	PLM-BI
No. of Samples	6
Turnaround:	6 hours

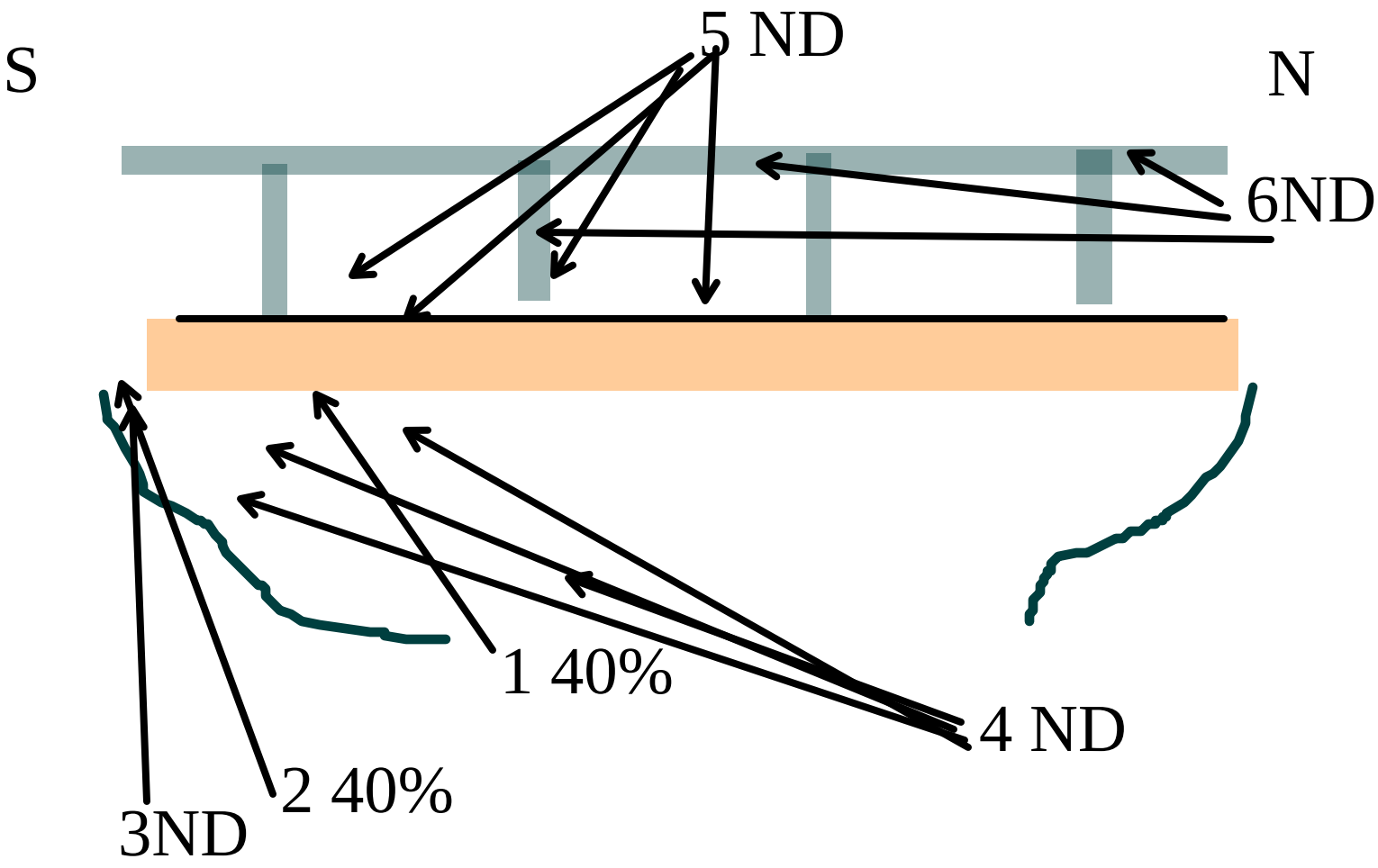
Num.	Sample ID#	Location/Description
28534 1	BLB-1	East Side Pipe (30 lf) / TSI
31 2	BLB-2	South Side I Beam, Foot Support (-10 sf) / Compression Shim
32 3	BLB-3	South Side Abutment/Dec Intersection (-300 sf) / Asphalt Compression Felt
33 4	BLB-4	Concrete Abutment System, South Side, East and West areas, Multi-Hit Composite (-800 sf) / Structural Concrete
34 5	BLB-5	Concrete Deck System, East and West Sides, Middle, and South Side of Span Multi-Hit Composite (-150 sf) / Structural Concrete
35 6	BLB-6	Wood Rail System, East and West Sides, Various Area (-175 sf) / White Paint

*IF RESULTS ARE LESS THAN 1%, PLEASE 400 POINT COUNT

Chain of Custody Information

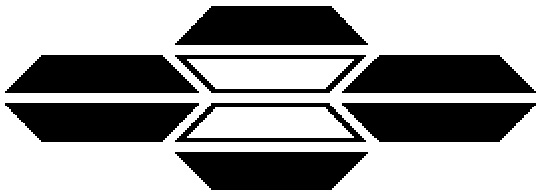
Released By Signature	Date/ Time	Received By Signature	Date/ Time	
	12/15/14 1453		12·16·14 1010A	Due:
Released By Signature	**Date/ Time**	**Received By Signature**	**Date/ Time**	
				At:

Blair Lane Bridge at Hangtown Creek Sample Map



APPENDIX C.

ASBESTOS TEM LABORATORIES, INC. REPORT



ASBESTOS TEM LABORATORIES, INC.

CARB Method 435
Polarized Light Microscopy
Analytical Report

Laboratory Job # 1439-00003

630 Bancroft Way
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429

ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866

NVLAP Lab Code: 101891-0
Berkeley, CA

Jan/09/2015

Ellen Pyatt
Taber Consultants
3911 West Captiol Avenue
West Sacramento, CA 95691

RE: LABORATORY JOB # 1439-00003
Polarized light microscopy analytical results for 3 bulk sample(s).
Job Site: 1P2/304/175
Job No.: Blairs Lane in Placerville, CA

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microsope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting techinique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

POLARIZED LIGHT MICROSCOPY
CARB 435 ANALYTICAL REPORT

Contact: Ellen Pyatt

Address: Taber Consultants
3911 West Captiol Avenue
West Sacramento, CA

Samples Submitted: 4

Samples Analyzed: 3

Job Site / No. Blairs Lane in Placerville, CA
1P2/304/175

Report No. **330694**
Date Submitted: Dec-26-14
Date Reported: Jan-09-15

SAMPLE ID	POINTS COUNTED	ASBESTOS %	ASBESTOS TYPE	LOCATION / DESCRIPTION
NOA-1		**<0.25%**	**None Detected**	11:45 SB-2, Broadway No Asbestos Detected - ARB Exception I
Lab ID # 1439-00003-001	**400** - Total Points			
NOA-2		**<0.25%**	**None Detected**	09:30 SB-8, S side Hangtown Creek. No Asbestos Detected - ARB Exception I
Lab ID # 1439-00003-002	**400** - Total Points			
NOA-3		**<0.25%**	**None Detected**	14:20 SB-7, NW of bridge. No Asbestos Detected - ARB Exception I
Lab ID # 1439-00003-003	**400** - Total Points			
NOA-4				15:30 SB-6, SW of Broadway (HOLD) HOLD SAMPLE
Lab ID # 1439-00003-004	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

QC Reviewer Stephanie Quinn **Analyst** Jo Ann Hunter

ASBESTOS TEM LABORATORIES CHAIN OF CUSTODY – *www.asbestostemlabs.com*

CALIFORNIA: 630 Bancroft Way, Berkeley, CA 94710 Phone (510) 704-8930 Fax (510) 704-8429
NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798

Please print and send completed CoC with your samples. If you wish to email CoC, send the form as an attachment to Berkeley <coc@asbestostemlabs.com > or Reno <sehrlich@asbestostemlabs.com>.

Company: Taber Consultants	*Contact:* Ellen Pyatt	*Phone/Fax:* 916 371 1690	*Email:* epyatt@taberconsultants.com
Address: 3911 West Capitol Ave	*City:* West Sacramento	*State:* CA *Zip:* 95691	*Country:* United States
Job Site: Blairs Lane in Placerville, CA		*Job No:* 1P2/304/175	*P.O. No:* 14-0260

Reporting	☐ Fax	☐ Phone	■ Email	☐ Mail	☐ FTP	☐ EDD/State Form	☐ Verbal	☐ Pickup	**Billing**	☐ Fax	☐ Email	☐ Mail	☐ Pre-Paid	☐ 3rd Party

Results Due:*	☐ 2 hr	☐ 4 hr	☐ 6 hr	☐ 8 hr	☐ 24 hr	☐ 48 hr	☐ 3 day	☐ 4 day	☐ 5 day	■ 10 day	☐ Time due:____ * Contact lab to confirm TAT
Asbestos Air	☐ PCM (NIOSH 7400A	☐ TEM AHERA	☐ TEM CARB Mod. AHERA	☐ TEM EPA Yamate Level	☐ TEM NIOSH 7402, Issue 2	☐ ISO 10312	☐ ISO 13794				
Asbestos Bulk	☐ PLM Standard (EPA 600/R-93-1	☐ PLM 400 PC	☐ PLM 1000 PC	☐ PLM 400 PC Grav. Red.	☐ PLM 1000 PC Grav. Red.	☐ TEM EPA Qualitative	☐ TEM EPA Quantitatve				
	☐ TEM Chatfield (Semi-Quant)	☐ PLM Vermiculite Attic Insulation	☐ **Custom Analysis:** Type:								
Asbestos Soils	☐ CARB 435 Prep Only	■ CARB 435 PLM 400 PC	☐ CARB 435 PLM 1000 PC	☐ EPA Soil Screening Qualitative	☐ TEM EPA/CARB Quantitative						
Asbestos Dust	☐ ASTM D-5755 Fiber Count	☐ ASTM D-5756 Wt. %	☐ ASTM D-5756 Mass	☐ ASTM D-6840-99 Dust Wipe	☐ Total Particulates (Grav.)						
Asbestos Water	☐ 100.2 Potable Drinking Water	☐ 100.1 Non Potable Water									
Lead	☐ Paint Chips	☐ Dust Wipe	☐ Air Cassette	☐ Soil	**Lead Waste Characterization:**	☐ TTLC	☐ STLC	☐ TCLP			
Sample Storage	*☐ No Test, Hold Sample Until: _____	*☐ Post Test, Hold Sample Until: _____									
Custom Order	☐ Reanalysis by: _____	☐ Sensitivity: _____	☐ Composite	☐ Other:							

Sample #	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (lpm) On	Flow Rate (lpm) Off	Flow Rate (lpm) Average	Volume or Area Sampled	8 Hour TWA Requested	Description
NOA-1	Soil + Rock	12/18/14								☐	11:45 SB-2, Broadway
NOA-2	Soil + Rock	12/22/14								☐	09:30 SB-8, S side Hangtown Creek
NOA-3	Soil + Rock	12/22/14								☐	14:20 SB-7, NW of bridge
NOA-4	Soil + Rock	12/22/14								☐	15:30 SB-6, SW of Broadway (HOLD)
										☐	
										☐	
										☐	
										☐	
										☐	
										☐	
										☐	
										☐	
										☐	
										☐	

Submitted By	[signature]	**Received By**	ATEM/RY
Date/Time Submitted	12·24·14 packed to ship @ 11:30	**Date/Time Received**	[illegible]
Submitted By		**Received By**	
Date/Time Submitted		**Date/Time Received**	

*All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service

APPENDIX D.

SOIL BORING LOGS

Taber
Since 1954
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Engineers and Geologists
3911 West Capitol Avenue
West Sacramento, CA 95691-2116
916-371-1690 Fax: 916-371-7265
www.taberconsultants.com

BORING NUMBER SB-1

CLIENT Quincy Engineering, Inc. **PROJECT NAME** Blairs Lane Bridge Replacement

PROJECT NUMBER 1P2/304/175 **PROJECT LOCATION** Placerville, Ca

DATE STARTED 12/18/14 **COMPLETED** 12/18/14 **GROUND ELEVATION** _____ **HOLE DIAM.:** 4"

CONTRACTOR Taber Drilling **TOP OF CASING:** _____ **CASING DIAM:** _____

EQUIPMENT 2.4" California modified sampler **GROUND WATER LEVELS:** ▽ **AT TIME OF DRILLING** 9.1 ft

METHOD **Truck Mounted CME 55 Solid Stem Auger**

LOGGED BY ELP **CHECKED BY** _____ **NOTES** Weather mostly sunny, warm.

DEPTH (ft)	SAMPLE TYPE / SAMPLE NO.	BLOW COUNTS (blows per foot)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					0.5 Asphalt	
					Dark reddish brown (5YR 3/4) SILTY CLAY (CL) with trace angular coarse GRAVEL (fill?), moist	
					Change to dark yellowish brown (10YR 4/6) with light gray mottles (~40%), trace SAND, moist	
					4.0	
					Dark yellowish brown (10YR 4/6) SANDY CLAY (SC) light gray (30%) and dark gray (10%) mottles, moist	
5					5.0	
		3-9-10 (19)	1.0		Dark reddish brown (5YR 3/4) SILTY CLAY (CL) with mottles, moist	
					▽ Change to yellowish brown (10YR 5/6) with (10%) coarse SAND	
10					Change to dark yellowish brown (10YR 4/6)	
	SB-1-10	4-9-13 (22)	3.2		11.5	
					Soft metasedimentary rock (Calaveras Complex, phyllite), wet	
15						
		4-8-13 (21)	0.6		16.5	
					Bottom of hole at 16.5 feet.	
					Backfilled with neat cement grout, surface capped with Sakcrete flush to grade, blackened to match asphalt	

ENVIRONMENTAL BH 1P2 304 175 BLAIRS LANE, DECEMBER 18, 2014.GPJ CURRENT-LIBRARY.GLB TABER.GDT 01/20/15

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BORING NUMBER SB-2

CLIENT Quincy Engineering, Inc. **PROJECT NAME** Blairs Lane Bridge Replacement

PROJECT NUMBER 1P2/304/175 **PROJECT LOCATION** Placerville, Ca

DATE STARTED 12/18/14 **COMPLETED** 12/18/14 **GROUND ELEVATION** _____ **HOLE DIAM.:** 4"

CONTRACTOR Taber Drilling **TOP OF CASING:** _____ **CASING DIAM:** _____

EQUIPMENT 2.4" California modified sampler **GROUND WATER LEVELS:** ▽ **AT TIME OF DRILLING** 9.0 ft

METHOD **Truck Mounted CME 55 Solid Stem Auger**

LOGGED BY ELP **CHECKED BY** _____ **NOTES** Weather mostly sunny, warm.

DEPTH (ft)	SAMPLE TYPE / SAMPLE NO.	BLOW COUNTS (blows per foot)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					Asphalt 0.5	
					Strong brown (7.5YR 4/6) SILTY CLAY (CL) with trace coarse GRAVEL subangular), moist	
5					5.0	
		15-50/0.5'	0.0		Soft, metasedimentary rock (Calaveras Complex, phyllite), sampler refusal at 6 feet bgs	
					Change to yellowish brown (10YR 5/6)	
					▽	
10						
	SB-2-10	50/0.5*'	0.6		Sampler refusal at 10.5 feet bgs, wet	
			0.2			
					14.5	
					Bottom of hole at 14.5 feet.	
					Backfilled with neat cement grout, surface capped with Sakcrete flush to grade, blackened to match asphalt	

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BORING NUMBER SB-3

CLIENT Quincy Engineering, Inc. **PROJECT NAME** Blairs Lane Bridge Replacement

PROJECT NUMBER 1P2/304/175 **PROJECT LOCATION** Placerville, Ca

DATE STARTED 12/18/14 **COMPLETED** 12/18/14 **GROUND ELEVATION** _____ **HOLE DIAM.:** 4"

CONTRACTOR Taber Drilling **TOP OF CASING:** _____ **CASING DIAM:** _____

EQUIPMENT 2.4" California modified sampler **GROUND WATER LEVELS:** ▽ **AT TIME OF DRILLING** 9.0 ft

METHOD **Truck Mounted CME 55 Solid Stem Auger**

LOGGED BY ELP **CHECKED BY** _____ **NOTES** Weather mostly sunny, warm.

DEPTH (ft)	SAMPLE TYPE / SAMPLE NO.	BLOW COUNTS (blows per foot)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					0.5 Asphalt	
			0.0		Strong brown (7.5YR 4/6) SILTY CLAY (CL) with subangular trace coarse GRAVEL, moist. No recovery in sampler.	
5		2-2-5 (7)	0.0			
			0.2			
	SB-3-8				Disturbed sample ▽	
10		50/0.0*¹	0.0		10.0 10.2 Soft Metasedimentary rock (Calaveras Complex, phyllite), wet	
					Bottom of hole at 10.2 feet.	
					Backfilled with neat cement grout, surface capped with Sakcrete flush to grade, blackened to match asphalt	

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BORING NUMBER SB-4

CLIENT Quincy Engineering, Inc. **PROJECT NAME** Blairs Lane Bridge Replacement

PROJECT NUMBER 1P2/304/175 **PROJECT LOCATION** Placerville, Ca

DATE STARTED 12/19/14 **COMPLETED** 12/19/14 **GROUND ELEVATION** _____ **HOLE DIAM.:** 4"

CONTRACTOR Taber Drilling **TOP OF CASING:** _____ **CASING DIAM:** _____

EQUIPMENT 2.4" California modified sampler **GROUND WATER LEVELS:** ▽ **AT TIME OF DRILLING** 7.0 ft

METHOD **Truck Mounted CME 55 Solid Stem Auger**

LOGGED BY ELP **CHECKED BY** _____ **NOTES** Rain.

DEPTH (ft)	SAMPLE TYPE / SAMPLE NO.	BLOW COUNTS (blows per foot)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					0.5 Asphalt	
					Light brownish gray (2.5YR 6/2) CLAYEY SILT (ML) with trace coarse SAND and angular GRAVEL (fill?), moist, slight hydrocarbon odor	
			616		3.0	
					Very dark gray (6YR 3/N) SILTY SAND (SM), moist, strong hydrocarbon odor	
					4.0	
5			0.3		Strong brown (7.5YR 4/6) coarse SAND (SP) with fines, moist	
		1-1-1 (2)			▽	
			4.2			
10		2-5-12 (17)			10.0	
					Soft, metasedimentary rock (Calaveras Complex, phyllite), wet, stained, hydrocarbon odor	
15	SB-4-15				16.5	
					Bottom of hole at 16.5 feet.	
					Backfilled with neat cement grout, surface capped with Sakcrete flush to grade, blackened to match asphalt	

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BORING NUMBER SB-5

CLIENT Quincy Engineering, Inc. **PROJECT NAME** Blairs Lane Bridge Replacement

PROJECT NUMBER 1P2/304/175 **PROJECT LOCATION** Placerville, Ca

DATE STARTED 12/19/14 **COMPLETED** 12/19/14 **GROUND ELEVATION** _____ **HOLE DIAM.:** 4"

CONTRACTOR Taber Drilling **TOP OF CASING:** _____ **CASING DIAM:** _____

EQUIPMENT 2.4" California modified sampler **GROUND WATER LEVELS:** ▽ **AT TIME OF DRILLING** 7.0 ft

METHOD **Truck Mounted CME 55 Solid Stem Auger**

LOGGED BY ELP **CHECKED BY** _____ **NOTES** Rain.

DEPTH (ft)	SAMPLE TYPE / SAMPLE NO.	BLOW COUNTS (blows per foot)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					0.5 Asphalt	
					Gray (2.5YR 6/1) SILT (ML) with trace CLAY and trace angular GRAVEL (fill?), moist	
					Change to dark gray (2.5YR 4/1)	
					Change to very dark gray with strong hydrocarbon odor	
5		5-1-2 (3)	209		5.0	
	SB-5-6				Very dark gray (2.5YR 3/1) SILTY CLAY (CL), moist, strong hydrocarbon odor (diesel?)	
					▽	
10					10.0	
		21-43-50/0.8'			Soft, metasedimentary rock (Calaveras Complex, phyllite), stained, wet	
					11.3	
					Bottom of hole at 11.3 feet.	
					Backfilled with neat cement grout, surface capped with Sakcrete flush to grade, blackened to match asphalt	

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BORING NUMBER SB-6

CLIENT Quincy Engineering, Inc. **PROJECT NAME** Blairs Lane Bridge Replacement

PROJECT NUMBER 1P2/304/175 **PROJECT LOCATION** Placerville, Ca

DATE STARTED 12/22/14 **COMPLETED** 12/22/14 **GROUND ELEVATION** _____ **HOLE DIAM.:** 4"

CONTRACTOR Taber Drilling **TOP OF CASING:** _____ **CASING DIAM:** _____

EQUIPMENT 2.4" California modified sampler **GROUND WATER LEVELS:** ▽ **AT TIME OF DRILLING** 7.7 ft

METHOD **Truck Mounted CME 55 Solid Stem Auger**

LOGGED BY ELP **CHECKED BY** _____ **NOTES** Cloudy.

DEPTH (ft)	SAMPLE TYPE / SAMPLE NO.	BLOW COUNTS (blows per foot)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					0.5 Asphalt	
					Dark reddish brown (5YR 3/4) CLAYEY SILT (ML) with META-SEDIMENTARY coarse SAND (calaveras complex) ~10% rare angular coarse GRAVEL (phyllite), moist (coarse subangular GRAVEL increasing depth)	
5					5.5 Change to dark brown (7.5YR 3/4)	
	SB-6-6.5	2-1-2 (3)	1.7		Dark brown SILTY coarse SAND (SM), wet ▽	
10					10.0	
					10.5 Very dark gray (7.5YR 3/1) SILT with trace mica (ML), wet	
	SB-6-11	3-7-25 (32)	0.7		Soft, metasedimary rock (Calaveras Complex, phyllite), wet 11.5	
					Bottom of hole at 11.5 feet.	
					Backfilled with neat cement grout, surface capped with Sakcrete flush to grade, blackened to match asphalt	

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BORING NUMBER SB-7

CLIENT Quincy Engineering, Inc. **PROJECT NAME** Blairs Lane Bridge Replacement

PROJECT NUMBER 1P2/304/175 **PROJECT LOCATION** Placerville, Ca

DATE STARTED 12/22/14 **COMPLETED** 12/22/14 **GROUND ELEVATION** _____ **HOLE DIAM.:** 4"

CONTRACTOR Taber Drilling **TOP OF CASING:** _____ **CASING DIAM:** _____

EQUIPMENT 2.4" California modified sampler **GROUND WATER LEVELS:** ▽ **AT TIME OF DRILLING** 7.5 ft

METHOD **Truck Mounted CME 55 Solid Stem Auger**

LOGGED BY ELP **CHECKED BY** _____ **NOTES** Cloudy.

DEPTH (ft)	*SAMPLE TYPE* *SAMPLE NO.*	BLOW COUNTS (blows per foot)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					0.5 Asphalt Dark reddish brown (5YR 3/4) SILT (ML) with coarse subangular and rounded GRAVEL, moist	
5					No recovery	
	SB-7-6	2-2-1 (3)			Strong hydrocarbon smell from 6.5 to 10 feet in drill cuttings, stained ▽	
					9.0 Very dark gray (5YR 3/1) SILTY SAND (SM), wet, stained, strong hydrocarbon odor	
10	SB-7-10.5	15-26-45 (71)	205		11.0 11.5 Soft metasedimentary rock (Calaveras Complex, phyllite), wet	
					Bottom of hole at 11.5 feet. Backfilled with neat cement grout, surface capped with Sakcrete flush to grade, blackened to match asphalt	

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www.taberconsultants.com

BORING NUMBER SB-8

CLIENT Quincy Engineering, Inc. **PROJECT NAME** Blairs Lane Bridge Replacement

PROJECT NUMBER 1P2/304/175 **PROJECT LOCATION** Placerville, Ca

DATE STARTED 12/22/14 **COMPLETED** 12/22/14 **GROUND ELEVATION** _____ **HOLE DIAM.:** 4"

CONTRACTOR Taber Drilling **TOP OF CASING:** _____ **CASING DIAM:** _____

EQUIPMENT 2.4" California modified sampler **GROUND WATER LEVELS:** **AT TIME OF DRILLING** ---

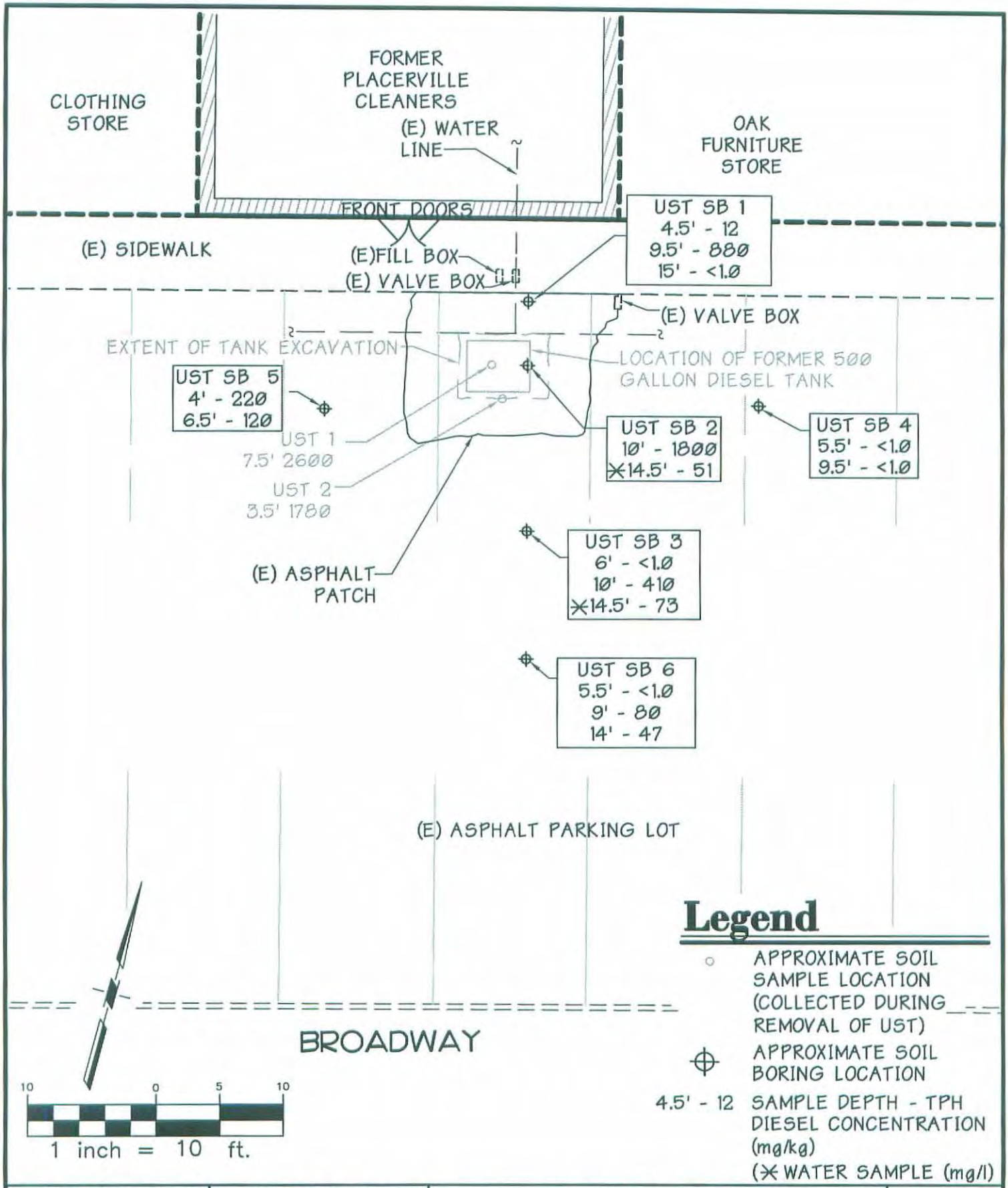
METHOD **Truck Mounted CME 55 Solid Stem Auger**

LOGGED BY ELP **CHECKED BY** _____ **NOTES** Cloudy.

DEPTH (ft)	*SAMPLE TYPE* *SAMPLE NO.*	BLOW COUNTS (blows per foot)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						
					0.5 Asphalt	
					Strong brown (7.5YR 4/6) SILT (ML) with subangular coarse GRAVEL and COBBLES (Calaveras Complex, quartzite), moist, increasing cobble size with depth	
	SB-8-3.5				4.0	
					Hand auger refusal at 4 feet Bottom of hole at 4.0 feet. Backfilled with neat cement grout, surface capped with Sakcrete flush to grade, blackened to match asphalt	

APPENDIX E.

OTHER INVESTIGATION BORING LOGS



Legend

- ○ APPROXIMATE SOIL SAMPLE LOCATION (COLLECTED DURING REMOVAL OF UST)
- ⊕ APPROXIMATE SOIL BORING LOCATION
- 4.5' - 12 SAMPLE DEPTH - TPH DIESEL CONCENTRATION (mg/kg)
- (✕ WATER SAMPLE (mg/l)

Job# 6125-02-07	03 JAN 2008	1261 BROADWAY PLACERVILLE CLEANERS SOIL BORING LOCATIONS	FIGURE 1

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3883 Ponderosa Road, Shingle Springs, CA 95682
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LOG OF BORING UST SB1

Sheet 1 of 1

Project: 1261 Broadway Placerville Cleaners

Location: **Placerville, CA**

Project Number: **6061-01-07**

Start Date:	1/03/08	Finish Date:	1/03/08	Total Depth Drilled (ft bgs):	15.5
Drilling Method:	8-inch Hollow Stem Auger	Drilling Contractor:	All Well Abandonment	Arbitrary Ground Surface Elevation:	1918
Drill Rig:	CME-75	Hammer Type:	Cable Reel	Hammer Weight / Drop:	140 lbs. / 30 inches
Logged By:	M. Vander Dussen	Reviewed By:	Rob Kull	Borehole Backfill:	Cement Grout
Coordinate Location:					
Remarks:					

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	USCS Classification	Graphic Log	Sample Type	Sample/Run No.	Blows/6"	N Value (uncorrected)	Recovery (in)
1918	0	4" of asphaltic concrete surface paving	N/A						
		Brown sandy clay (CL), moist, soft to medium stiff							
1917	1								
1916	2		CL						
1915	3								
1914	4	Calaveras Metasediments, yellow brown, completely to highly weathered, friable, very closely fractured, friable, moist					11		
		Becomes gray brown			MC	UST SB1-1	22	62	18
1913	5	Becomes yellow brown					40		
1912	6								
1911	7								
1910	8								
1909	9	Becomes gray	RX		MC	UST SB1-2	50	50+	12
1908	10						30/5		
1907	11								
1906	12	Becomes moist to wet, 1' zone of easier drilling							
1905	13								
1904	14	ATD					40		
1903	15				MC	UST SB1-3	35	85	18
							50		
1902	16	Boring terminated							
1901	17								
1900	18								
1899	19								
1898	20								

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LOG OF BORING UST SB2

Sheet 1 of 1

Project: 1261 Broadway Placerville Cleaners

Location: **Placerville, CA**

Project Number: **6061-01-07**

Start Date:	1/03/08	Finish Date:	1/03/08	Total Depth Drilled (ft bgs):	15.0
Drilling Method:	8-inch Hollow Stem Auger	Drilling Contractor:	All Well Abandonment	Arbitrary Ground Surface Elevation:	1819
Drill Rig:	CME-75	Hammer Type:	Cable Reel	Hammer Weight / Drop:	140 lbs. / 30 inches
Logged By:	M. Vander Dussen	Reviewed By:	Rob Kull	Borehole Backfill:	Cement Grout
Coordinate Location:					
Remarks:					

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	USCS Classification	Graphic Log	Sample Type	Sample/Run No.	Blows/6"	N Value (uncorrected)	Recovery (in)
1819	0	4" of asphaltic concrete surface paving	N/A						
		Gray brown poorly-graded gravel (GP) dry to moist, loose (pea gravel tank excavation backfill)							
1818	1								
1817	2								
1816	3	Becomes gray and moist to wet (water accumulation in UST excavation - saturated backfill)	GP						
1815	4								
1814	5								
1813	6								
1812	7	Calaveras Metasediments, yellow brown, completely to highly weathered, friable, very closely fractured, friable, moist to wet	RX		MC	UST SB2-1	30 50/6	50+	12
1811	8								
1810	9								
1809	10								
1808	11								
1807	12								
1806	13	ATD							
1805	14								
1804	15	Boring terminated							
1803	16								
1802	17								
1801	18								
1800	19								
1799	20								

LOG OF BORING 1261BROADWAY UST BORINGS-1.GPJ CARLTON ENGINEERING.GDT 1/24/08

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LOG OF BORING UST SB3

Sheet 1 of 1

Project: 1261 Broadway Placerville Cleaners

Location: **Placerville, CA**

Project Number: **6061-01-07**

Start Date:	1/03/08	Finish Date:	1/03/08	Total Depth Drilled (ft bgs):	15.0
Drilling Method:	8-inch Hollow Stem Auger	Drilling Contractor:	All Well Abandonment	Arbitrary Ground Surface Elevation:	1918
Drill Rig:	CME-75	Hammer Type:	Cable Reel	Hammer Weight / Drop:	140 lbs. / 30 inches
Logged By:	M. Vander Dussen	Reviewed By:	Rob Kull	Borehole Backfill:	Cement Grout
Coordinate Location:					

Remarks:

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	USCS Classification	Graphic Log	Sample Type	Sample/Run No.	Blows/6"	N Value (uncorrected)	Recovery (in)
1918	0	4" of asphaltic concrete surface paving	N/A						
		Dark gray brown clayey sand (SC), moist							
1917	1								
		Becomes brown							
1916	2		SC						
		Becomes dark yellow brown							
1915	3								
		Calaveras Metasediments, yellow brown, completely weathered, very closely fractured, friable, moist							
1914	4						18		
1913	5				MC		22	53	0
							31		
		Becomes gray to yellow brown, completely to highly weathered					18		
1912	6				MC	UST SB3-1	24	55	18
1911	7						31		
1910	8								
1909	9		RX						
1908	10				MC	UST SB3-2	15	50+	12
1907	11						50/5		
1906	12								
1905	13								
1904	14	ATD							
1903	15	Boring terminated							
1902	16								
1901	17								
1900	18								
1899	19								
1898	20								

LOG OF BORING 1261BROADWAY UST BORINGS-1.GPJ CARLTON ENGINEERING.GDT 1/24/08

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LOG OF BORING UST SB4

Sheet 1 of 1

Project: 1261 Broadway Placerville Cleaners

Location: **Placerville, CA**

Project Number: **6061-01-07**

Start Date:	1/03/08	Finish Date:	1/03/08	Total Depth Drilled (ft bgs):	10.0
Drilling Method:	8-inch Hollow Stem Auger	Drilling Contractor:	All Well Abandonment	Arbitrary Ground Surface Elevation:	1918
Drill Rig:	CME-75	Hammer Type:	Cable Reel	Hammer Weight / Drop:	140 lbs. / 30 inches
Logged By:	M. Vander Dussen	Reviewed By:	Rob Kull	Borehole Backfill:	Cement Grout
Coordinate Location:					
Remarks:					

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	USCS Classification	Graphic Log	Sample Type	Sample/Run No.	Blows/6"	N Value (uncorrected)	Recovery (in)
1918	0	4" of asphaltic concrete surface paving	N/A						
		Brown clayey sand with gravel (SC), moist, loose to medium dense							
1917	1								
1916	2								
1915	3		SC						
1914	4								
		Becomes yellow brown					8		
1913	5				MC	UST SB4-1	12	27	18
1912	6						15		
1911	7	Calaveras Metasediments, light gray brown, completely weathered, very closely fractured, friable, moist							
1910	8		RX						
1909	9						32		
					MC	UST SB4-2	50/6	50+	14
1908	10	Boring terminated					50/2		
1907	11								
1906	12								
1905	13								
1904	14								
1903	15								
1902	16								
1901	17								
1900	18								
1899	19								
1898	20								

LOG OF BORING 1261BROADWAY UST BORINGS-1.GPJ CARLTON ENGINEERING.GDT 1/24/08

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LOG OF BORING UST SB5

Sheet 1 of 1

Project: 1261 Broadway Placerville Cleaners

Location: **Placerville, CA**

Project Number: **6061-01-07**

Start Date:	1/03/08	Finish Date:	1/03/08	Total Depth Drilled (ft bgs):	7.0
Drilling Method:	8-inch Hollow Stem Auger	Drilling Contractor:	All Well Abandonment	Arbitrary Ground Surface Elevation:	1918
Drill Rig:	CME-75	Hammer Type:	Cable Reel	Hammer Weight / Drop:	140 lbs. / 30 inches
Logged By:	M. Vander Dussen	Reviewed By: Rob Kull	Borehole Backfill: Cement Grout	Coordinate Location:	
Remarks:					

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	USCS Classification	Graphic Log	Sample Type	Sample/Run No.	Blows/6"	N Value (uncorrected)	Recovery (in)
1918	0	4" of asphaltic concrete surface paving	N/A						
		Brown, silty sand with gravel (SM), moist	SM						
1917	1								
1916	2	Brown, clayey sand (SC), moist	SC						
1915	3								
1914	4	Calaveras Metasediments, yellow brown to red brown completely to highly weathered, very closely fractured, friable to weak, moist	RX		MC	UST SB5-1	50/6 50/2	50+	8
1913	5								
1912	6	Becomes moderately weathered, weak to moderately strong			MC	UST SB5-2	50/2	50+	6
1911	7	Boring terminated auger and sampler refusal at 7'							
1910	8								
1909	9								
1908	10								
1907	11								
1906	12								
1905	13								
1904	14								
1903	15								
1902	16								
1901	17								
1900	18								
1899	19								
	20								

LOG OF BORING 1261BROADWAY UST BORINGS-1.GPJ CARLTON ENGINEERING.GDT 1/24/08

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LOG OF BORING UST SB6

Sheet 1 of 1

Project: 1261 Broadway Placerville Cleaners

Location: **Placerville, CA**

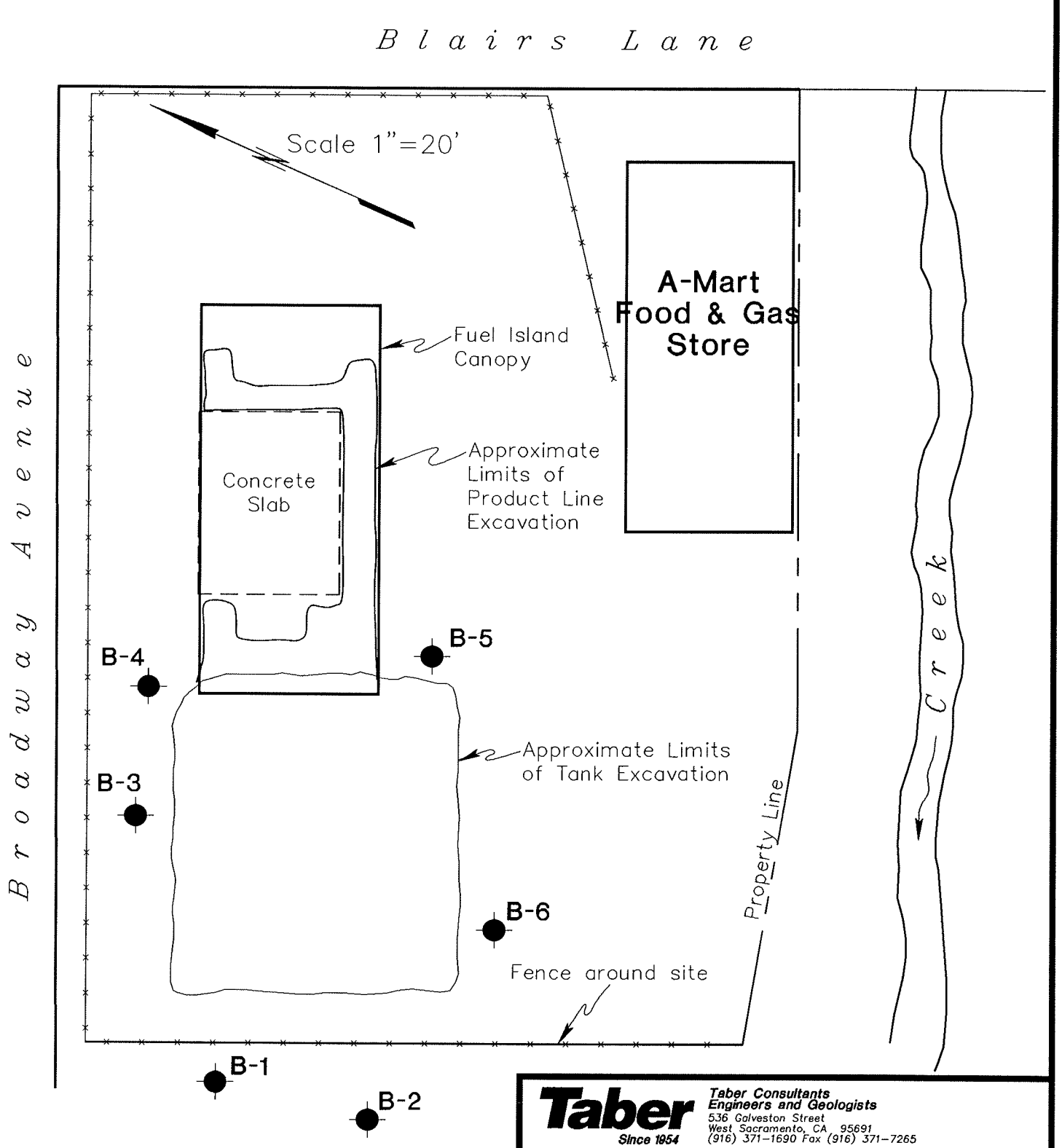
Project Number: **6061-01-07**

Start Date:	1/03/08	Finish Date:	1/03/08	Total Depth Drilled (ft bgs):	14.5
Drilling Method:	8-inch Hollow Stem Auger	Drilling Contractor:	All Well Abandonment	Arbitrary Ground Surface Elevation:	1917
Drill Rig:	CME-75	Hammer Type:	Cable Reel	Hammer Weight / Drop:	140 lbs. / 30 inches
Logged By: M. Vander Dussen	Reviewed By: Rob Kull	Borehole Backfill:	Cement Grout	Coordinate Location:	
Remarks:					

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	USCS Classification	Graphic Log	Sample Type	Sample/Run No.	Blows/6"	N Value (uncorrected)	Recovery (in)
1917	0	4" of asphaltic concrete surface paving	N/A						
		Brown silty sand with gravel (SM), moist, loose to medium dense (Hand cleared to 3.5')							
1916	1								
1915	2	Becomes yellow brown							
1914	3		SM						
1913	4	Becomes red brown and medium dense							
1912	5				MC	UST SB6-1	12 8 8	16	18
1911	6								
1910	7	Yellow brown clayey silt (ML), moist	ML						
1909	8	Calaveras Metasediments, yellow gray to brown, completely weathered, very closely fractured, friable, moist							
1908	9				MC	UST SB6-2	80/6	50+	6
1907	10								
1906	11		RX						
1905	12								
1904	13								
1903	14				MC	UST SB6-3	90/6	50+	6
		Boring terminated							
1902	15								
1901	16								
1900	17								
1899	18								
1898	19								
	20								

LOG OF BORING 1261BROADWAY UST BORINGS-1.GPJ CARLTON ENGINEERING.GDT 1/24/08

Beacon Gas Station



LEGEND

B-1 — Soil Boring Locations

Taber Since 1954

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Engineers and Geologists
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West Sacramento, CA 95691
(916) 371-1690 Fax (916) 371-7265

River City Petroleum

A-Mart Station - 1296 Broadway
Placerville, California

SOIL BORING LOCATIONS

2P3/391/61	June 1992	Figure - 5

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TEST BORING LOG

2P3/391/61

TYPE: 8" Auger — ELEVATION: Existing Ground Surface — BORING No. 1

BLOWS/FOOT 350 ft-lb	SAMPLE SIZE (inches)	SAMPLE No.	DEPTH IN FEET	MATERIAL SYMBOL	UNIFIED SOIL CLASS	
						AC and aggregate baserock
					GC / SC	Loose medium brown SAND and GRAVEL with CLAY
5	2.0	1	5			
12	2.0	2				Semicompact green to black PHYLLITE/ SLATE (weathered)
			10			Boring backfilled with cement/bentonite slurry 2-5-92.

TYPE: 8" Auger — ELEVATION: Existing Ground Surface — BORING No. 2

BLOWS/FOOT 350 ft-lb	SAMPLE SIZE (inches)	SAMPLE No.	DEPTH IN FEET	MATERIAL SYMBOL	UNIFIED SOIL CLASS	
						AC and aggregate baserock
6	2.0	1			SC	Loose to very loose medium brown CLAYEY SAND with scattered GRAVEL
3	2.0	2	5			
			10			Boring backfilled with cement/bentonite slurry 2-5-92.

TYPE: 8" Auger — ELEVATION: Existing Ground Surface — BORING No. 3

BLOWS/FOOT 350 ft-lb	SAMPLE SIZE (inches)	SAMPLE No.	DEPTH IN FEET	MATERIAL SYMBOL	UNIFIED SOIL CLASS	
						AC
21	2.0	1				(Semicompact) medium brown SAND with CLAY and ROCK fragments (fill)
			5			
22	2.0	2				(Semicompact) brown to black SAND and ROCK fragments
			10			Boring backfilled with cement/bentonite slurry 2-5-92.

THE BORING LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES

LOGGED BY: R.T.S. DATE: 2-4-92

4/92 239161A.DWG 1=1 B4

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TEST BORING LOG

2P3/391/61

TYPE: 8" Auger — ELEVATION: Existing Ground Surface — BORING No. 4

BLOWS/FOOT 350 ft-lb	SAMPLE SIZE (inches)	SAMPLE No.	DEPTH IN FEET	MATERIAL SYMBOL	UNIFIED SOIL CLASS	
						AC
						(Very loose) medium brown SILT, CLAY, SAND and GRAVEL (fill)
4	2.0	1	5			Gasoline odor at 5–6.5 ft. depth
6	2.0	2	10			(Very loose) dark brown CLAYEY SAND and GRAVEL
6	2.0	3				Boring backfilled with cement/bentonite slurry 2–5–92.

TYPE: 8" Auger — ELEVATION: Existing Ground Surface — BORING No. 5

BLOWS/FOOT 350 ft-lb	SAMPLE SIZE (inches)	SAMPLE No.	DEPTH IN FEET	MATERIAL SYMBOL	UNIFIED SOIL CLASS	
						AC
						(Semicompact) brown/black/green SAND, CLAYEY SILT and CLAYEY GRAVEL
18	2.0	1	5			Gasoline odor at 5–6.5 ft. depth
36	2.0	2	10			(Dense) green to black PHYLLITE/SLATE
						Boring backfilled with cement/bentonite slurry 2–5–92.

TYPE: 8" Auger — ELEVATION: Existing Ground Surface — BORING No. 6

BLOWS/FOOT 350 ft-lb	SAMPLE SIZE (inches)	SAMPLE No.	DEPTH IN FEET	MATERIAL SYMBOL	UNIFIED SOIL CLASS	
						AC and aggregate baserock
					CL / SP / GC	(Loose to semicompact) green and gray brown SAND, SILTY CLAY with SAND and CLAYEY GRAVEL
6	2.0	1	5			Gasoline odor at 4.7–6.2 ft. depth
16	2.0	2	10			Boring backfilled with cement/bentonite slurry 2–5–92.

THE BORING LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LCATIONS INDICATED AND IT IS NOT WARRANTED THAT THEY ARE REPRE-SENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES

LOGGED BY: R.T.S. DATE: 2–4–92

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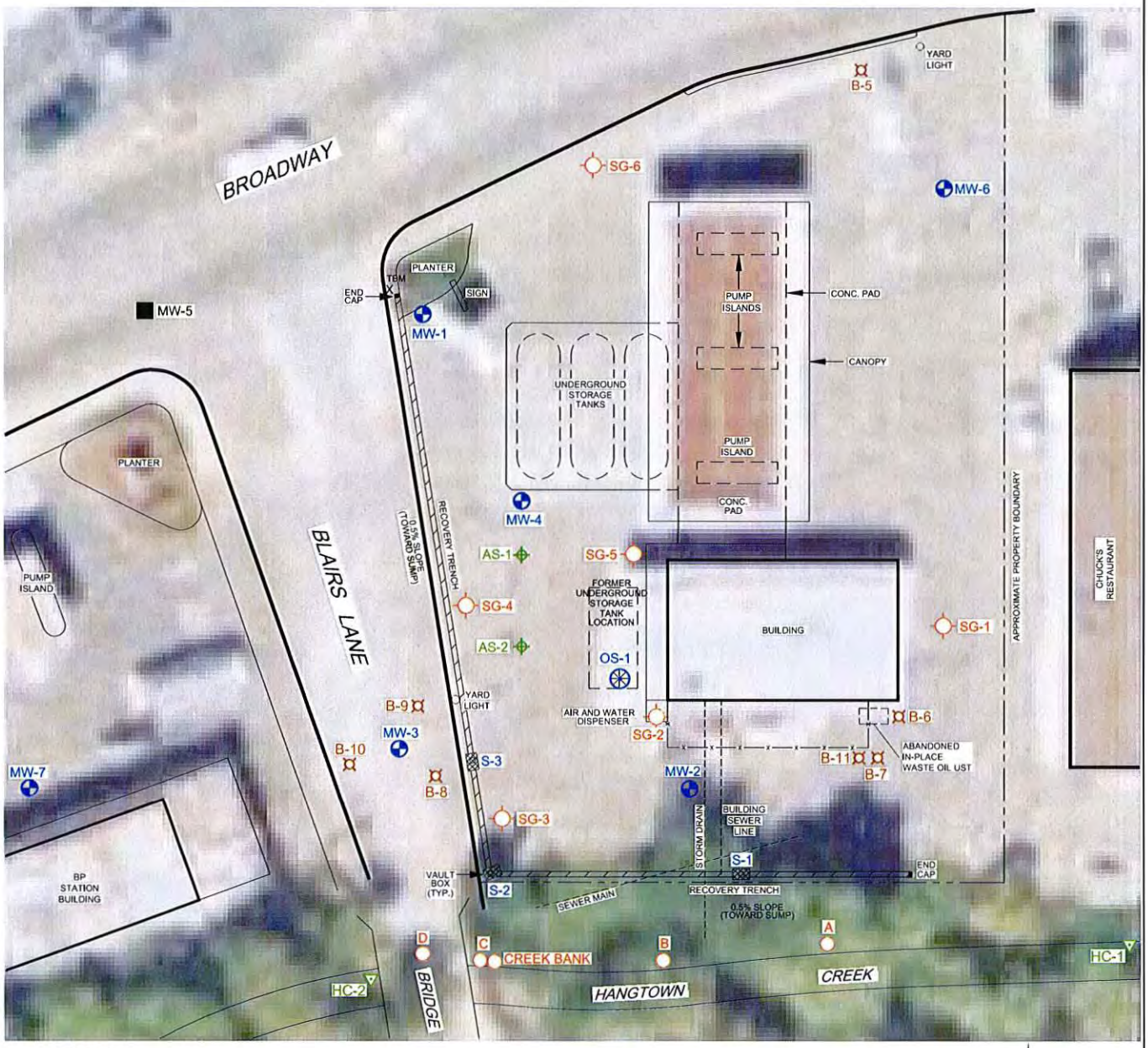

LEGEND:

MW-1	MONITORING WELL
MW-5	ABANDONED MONITORING WELL
OS-1	OBSERVATION SUMP
AS-1	AIR SPARGE WELL
SG-6	SOIL GAS SAMPLING
B-11	SOIL BORING
HC-2	SURFACE WATER SAMPLE
A	SOIL SAMPLE (CREEK BANK)
S-1	SUMP
X TBM	TEMPORARY BENCH MARK

N

0 30 FT

SCALE

HORIZON ENVIRONMENTAL INC.

Project Number: 34094.02	Drawn By: M. LaCoste	SITE AREA MAP
Prepared By: E. Kruck	Date: 7/15/02	FORMER TESORO STATION 67094
Reviewed By: R. Smith	Revised Date: 2/27/13	1312 BROADWAY PLACERVILLE, CA.

FIGURE

2

HORIZON ENVIRONMENTAL INC.
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El Dorado Hills, California 95762
(916) 939-2170 -- Fax: (916) 939-2172

Soil Boring No. B-6

Drilling Company: Penecore
Date Drilled: 2/21/13
Drilling Method: Direct-Push
Sampling Method: metal / plastic sleeve

Project No.: 34094.02
Site: Tesoro Station No. 67094
Location: Placerville, CA
Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
						0	Asphalt 2 inches at surface	
		Hand Augered				1	SANDY CLAY (SC): with gravel, dark brown to olive brown, slightly moist, stiff, medium plasticity, no odor	
	B-6-3					3	Same as above	*1.5-inch diameter bore hole*
						4	SANDY CLAY (SC): with gravel, brown, moist, stiff, medium plasticity, no odor	
5	B-6-5		36	36		5		
						6	Boring terminated at 5 feet bsg	
						7	Groundwater not encountered	
10						10		
15						15		
20						20		
25						25		
30						30		

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Soil Boring No. B-7

Drilling Company: Penecore
Date Drilled: 2/21/13
Drilling Method: Direct-Push
Sampling Method: metal / plastic sleeve

Project No.: 34094.02
Site: Tesoro Station No. 67094
Location: Placerville, CA
Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
						0	Asphalt 2 inches at surface	
		Hand Augered				1	*1.5-inch diameter bore hole*	
	B-7-3		12	12		2-3	SANDY CLAY (SC): gravelly, light brown, slightly moist, low plasticity, no odor	
5	B-7-5		60	30		4-5	SANDY CLAY (SC): light brown, moist, stiff, low plasticity, no odor	
						6-7	BEDROCK (BR): meta-sedimentary, gray, fractured, friable, dry, hard, no odor	
						8		
						9	Boring terminated at 8 feet bsg	
10						10	Groundwater not encountered	
						11-14		
15						15-19		
20						20-24		
25						25-29		
30						30		

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Soil Boring No. B-8

Drilling Company: Penecore
Date Drilled: 2/21/13
Drilling Method: Direct-Push
Sampling Method: metal / plastic sleeve

Project No.: 34094.02
Site: Tesoro Station No. 67094
Location: Placerville, CA
Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
						0	Concrete 4 inches at surface	
	B-8-2	Hand Augered	6	6		1-2	SILTY CLAY (FILL): gravelly, mottled brown, granitic sand <1 inch, crushed rock, roots, slightly moist, dense, no odor	
	B-8-4		6	6		3-4	SANDY CLAY (CL): gravelly, olive brown, 10% meta-sedimentary rock, damp, very stiff, no odor	
5						5	▽ groundwater encountered at 5 feet — *1.5-inch diameter bore hole*	
	B-8-8		36	24		6-8	CLAYEY SAND (SC): yellowish-brown, 10% meta-sedimentary gravel, moist to wet, medium dense, no odor	
10						9-10	Boring terminated at 8 feet bsg	
						11	Groundwater encountered at 5 feet bsg	
15						12-15		
20						16-20		
25						21-25		
30						26-30		

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Soil Boring No. B-9

Drilling Company: Penecore
Date Drilled: 2/21/13
Drilling Method: Direct-Push
Sampling Method: metal / plastic sleeve

Project No.: 34094.02
Site: Tesoro Station No. 67094
Location: Placerville, CA
Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
							Concrete 4 inches at surface	
	B-9-2	Hand Augered	6	6			SANDY CLAY (FILL): gravelly, mottled brown and dark gray, gravel >1 inch, roots, damp, stiff, no odor	
	B-9-4		6	6			CLAYEY SAND (SC): gravelly, grayish-brown, >10% meta-sedimentary coarse sand, damp, medium dense, no odor	
5							*1.5-inch diameter bore hole*	
							▽ groundwater encountered at 6 feet	
	B-9-8		36	24			CLAYEY SAND (SC): gravelly, yellowish-brown, 10% meta-sedimentary coarse sand, weathered bedrock, wet, very dense, no odor	
							Boring terminated at 8 feet bsg	
10							Groundwater encountered at 6 feet bsg	
15								
20								
25								
30								

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Soil Boring No. B-10

Drilling Company: Penecore
Date Drilled: 2/21/13
Drilling Method: Direct-Push
Sampling Method: metal / plastic sleeve

Project No.: 34094.02
Site: Tesoro Station No. 67094
Location: Placerville, CA
Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
						0	Concrete 4 inches at surface	
	B-10-2	Hand Augered	6	6		1-2	SANDY SILT (FILL): gravelly, light brown, 3/4-inch rock, sand lenses, dry, very stiff, no odor	
							1.5-inch diameter bore hole	
	B-10-4		6	6		3-4		
5						5	CLAYEY SAND (SC): brown, meta-sedimentary coarse sand, moist to wet, very dense, no odor	
						6	▽ groundwater encountered at 6 feet	
						7	Same as above	
	B-10-8		36	24		8		
						9	Boring terminated at 8 feet bsg	
10						10	Groundwater encountered at 6 feet bsg	
						11-14		
15						15		
						16-19		
20						20		
						21-24		
25						25		
						26-29		
30						30		

HORIZON ENVIRONMENTAL INC.
4970 Windplay Drive, Suite 5
El Dorado Hills, California 95762
(916) 939-2170 -- Fax: (916) 939-2172

Soil Boring No. B-11

Drilling Company: Penecore
Date Drilled: 2/21/13
Drilling Method: Direct-Push
Sampling Method: metal / plastic sleeve

Project No.: 34094.02
Site: Tesoro Station No. 67094
Location: Placerville, CA
Geologist: Emil Kruck

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading (ppm)	Sampling Interval	Soil Description/ Comments	Boring
						0	Asphalt 2 inches at surface	
		Hand Augered				1	*1.5-inch diameter bore hole*	
	B-11-3		12	12		2-3	SANDY CLAY (SC): gravelly, light brown, damp, low plasticity, no odor	
5	B-11-5		60	48		4-5	SANDY CLAY (SC): reddish-brown, moist, soft, low plasticity, no odor	
						6	▽ groundwater encountered at 5-½ feet	
						7	Rock	
						8		
						9	Boring terminated at 8 feet bsg	
10						10	Groundwater encountered at 5-½ feet bsg	
						11-14		
15						15-19		
20						20-24		
25						25-29		
30						30		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ELD				

REGISTERED ENGINEERING GEOLOGIST

5/30/07
PLANS APPROVAL DATE

REGISTERED GEOLOGIST
DAVID A. KITZMANN
No. 2412
EXP. 12-31-07
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

TABER CONSULTANTS
3911 West Capitol Avenue
West Sacramento, CA 95691-2116

JOB No. 1P1/304/175 LOCATION: 38120-F7: 368N: 175W

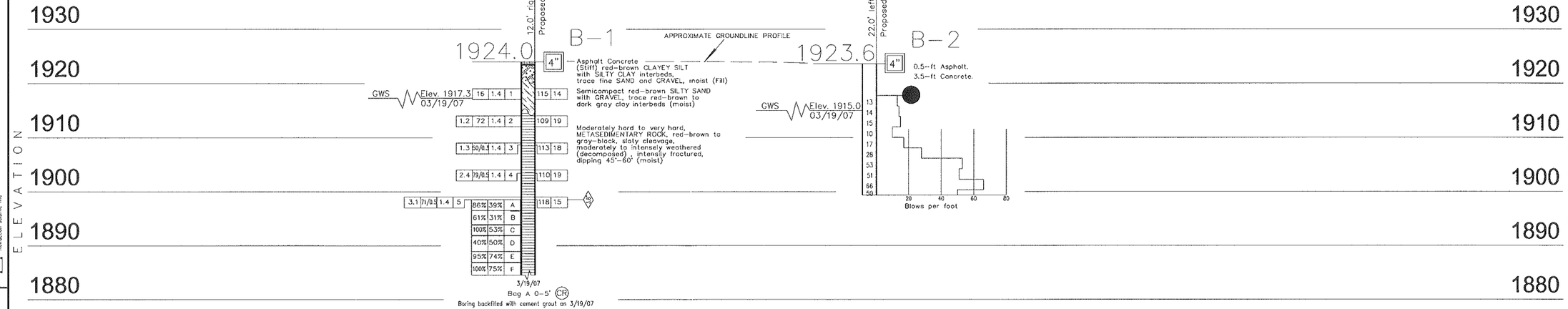
QUINCY ENGINEERING, INC.
3247 Ramos Circle
Sacramento, CA 95827

NOTES:
1. Field classification of soils was in accordance with ASTM D 2488-00 "Description and Identification of Soils (Visual-Manual Procedure)".
2. Standard Penetration tests were performed in accordance with ASTM D 1586-99 using a hammer operated with an automated drop system. Drill rods were 1 5/8-inch diameter "A"-rods; sampler was driven with brass liners.
3. The length of each sampled interval is shown graphically on the boring log. Whole number blow counts ("N") represent the "standard penetration resistance" interval in accordance with ASTM D1586-99. Where less than 1 foot of penetration is achieved, the blow count shown is for that fraction of the "standard penetration resistance" interval actually penetrated.
4. Consistency of soils shown in ( ) where estimated.
5. Rock Quality Designation (RQD), Weathering, Rock Hardness/Strength, Bedding, and Fracture Density, as shown on this sheet, were used to describe all rock core from borings drilled in 2003. Descriptors were determined in the field.
6. REC = Core Recovered (percent).
7. RQD = Rock Quality Designation (percent).
8. Groundwater surface (GWS) elevations in the borings indicated on the Log of Test Boring Sheets reflect the fluid level in the borings on the specified date.
9. Groundwater surface elevations are subject to seasonal fluctuations and may occur at higher or lower elevations depending on the conditions at any particular time.

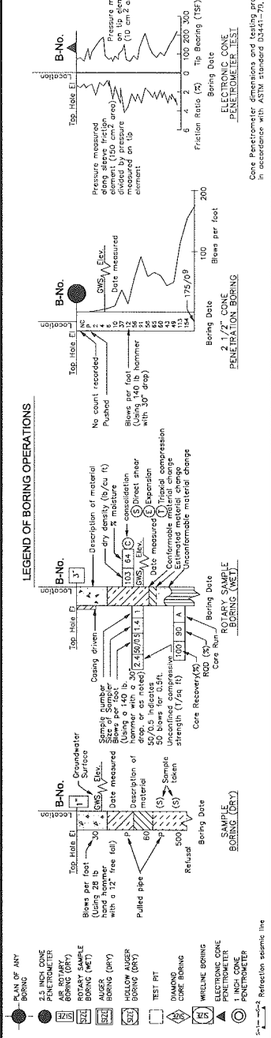
PLAN
1"=20'

ELEVATION REFERENCE
TBM (expansion joint) road center line
Station 106+95, Elevation 1924.0ft
Elevations and locations were provided by Eldorado County.

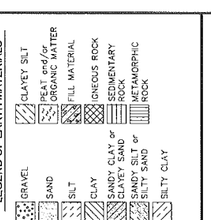
PROFILE
VERT. 1"=10'
HORT. Not to Scale



LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS



CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

Standard Penetration N - Value	Granular	Cohesive
0-5	Very loose	Very soft
6-10	Loose	Soft
11-20	Semicompact	Stiff
21-35	Compact	Very stiff
36-70	Dense	Hard
>70	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT
SIGN OFF DATE

DRAWN BY X. NGUYEN
CHECKED BY DAVE KITZMAN

EVAN HOPSON
FIELD INVESTIGATOR
DATE MARCH 2007

PREPARED FOR
ELDORADO COUNTY
DEPARTMENT OF PUBLIC WORKS

PROJECT ENGINEER

BRIDGE NO.
POST MILE

BLAIR'S LANE BRIDGE AT HANGTOWN CREEK
LOG OF TEST BORINGS

04/07 1P2304175a.dwg

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU
EA

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 1 OF 2

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ELD				

REGISTERED ENGINEERING GEOLOGIST

5-30-07
PLANS APPROVAL DATE

REGISTERED GEOLOGIST
DAVID A. KITZMANN
No. 2412
EXP. 12-31-07
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

TABER CONSULTANTS
3911 West Capitol Avenue
West Sacramento, CA 95691-2116

JOB No. 1P1/304/175 LOCATION: 38120-F7: 368N: 175W

QUINCY ENGINEERING, INC.
3247 Ramos Circle
Sacramento, CA 95827

NOTES:
1. Field classification of soils was in accordance with ASTM D 2488-00 "Description and Identification of Soils (Visual-Manual Procedure)".
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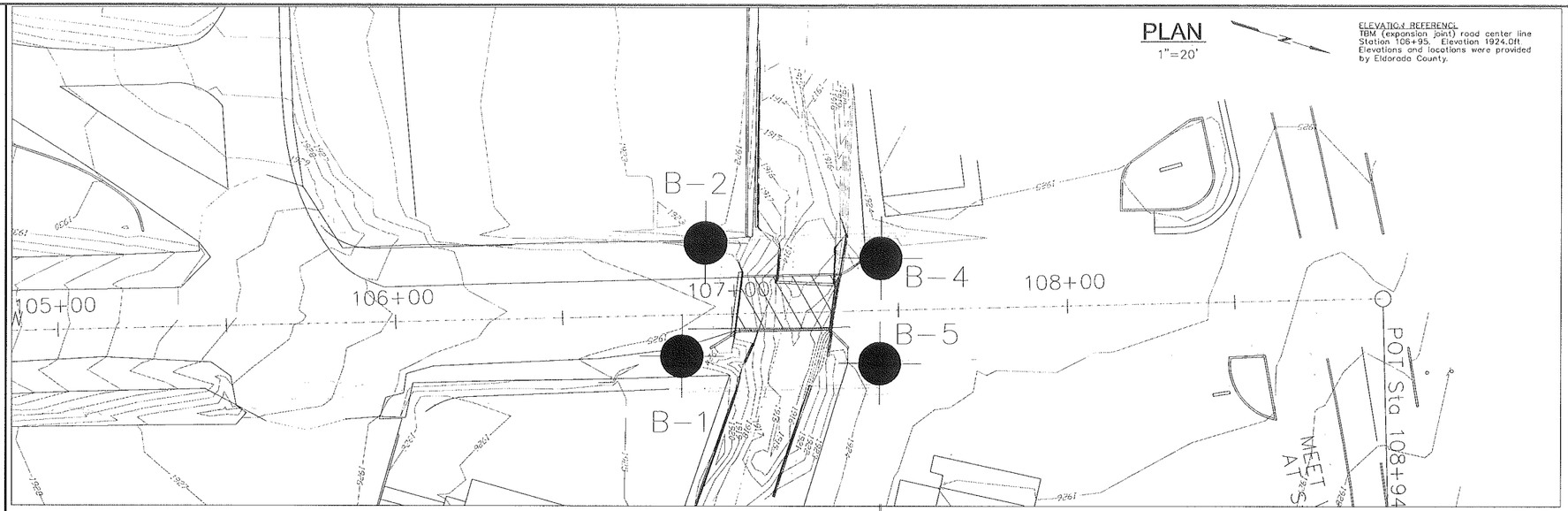
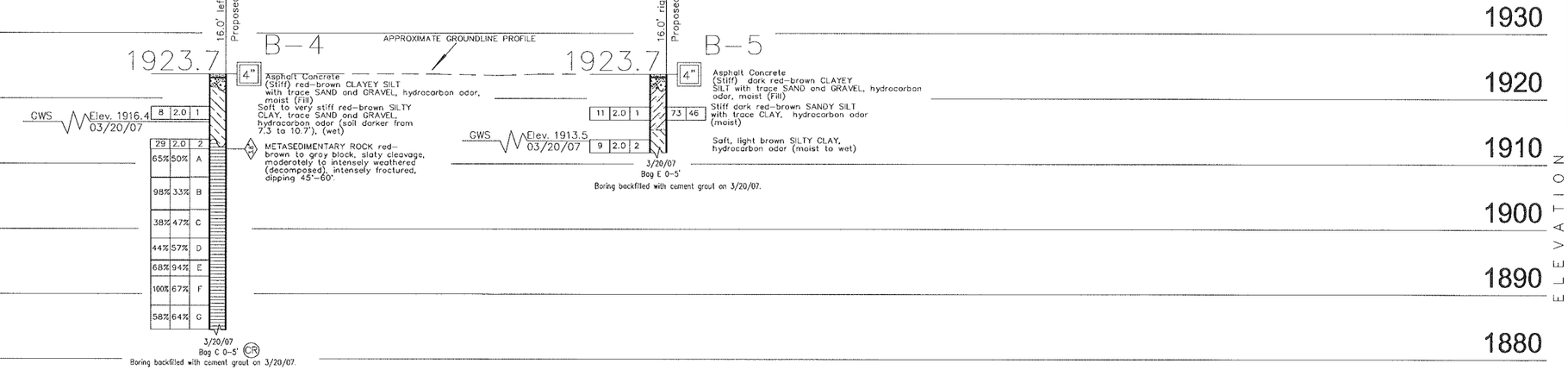
9. Groundwater surface elevations are subject to seasonal fluctuations and may occur at higher or lower elevations depending on the conditions at any particular time.

PLAN
1"=20'

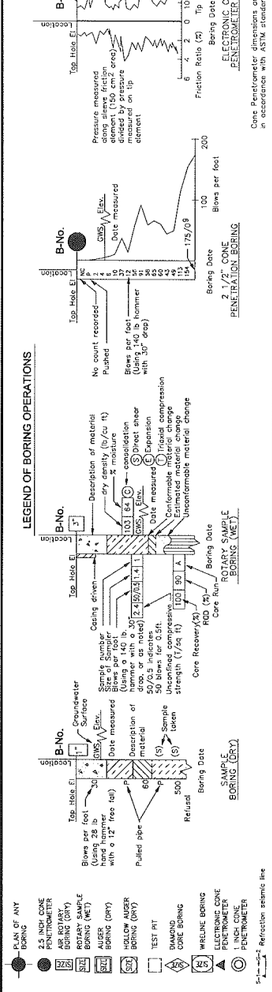
ELEVATION REFERENCE:
TBM (expansion joint) road center line Station 106+95. Elevation 1924.0ft
Elevations and locations were provided by Eldorado County.



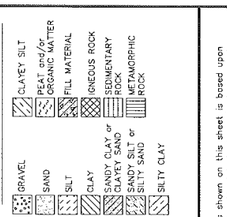
PROFILE
VERT. 1"=10'
HORT. Not to Scale



LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS



CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

Standard Penetration "N"-Value	Granular	Cohesive
0-5	Very loose	Very soft
6-10	Loose	Soft
11-20	Semicompact	Stiff
21-35	Compact	Very stiff
36-70	Dense	Hard
570	Very dense	Very hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DESIGN OVERSIGHT	DRAWN BY	X. NGUYEN	EVAN HOPSON FIELD INVESTIGATOR
SIGN OFF DATE	CHECKED BY	DAVE KITZMAN	DATE MARCH 2007

PREPARED FOR
ELDORADO COUNTY
DEPARTMENT OF PUBLIC WORKS

PROJECT ENGINEER

BRIDGE NO.	BLAIR'S LANE BRIDGE AT HANGTOWN CREEK
POST MILE	**LOG OF TEST BORINGS**

04/07 1P2304175a.dwg

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU
EA

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 2 OF 2

Taber
Since 1954
Taber Consultants
Engineers and Geologists
3911 West Capitol Avenue
West Sacramento, CA 95691-2116
916-371-1690 Fax: 916-371-7265

TEST BORING LOG

Job No. 1P2/304/175

TYPE: 4-INCH AUGER

ELEVATION: 1929.6'

BORING NO 3

UNCONFINED COMPRESSIVE STRENGTH (tsf)	OTHER TESTS	DRY DENSITY (lbs/cu. ft.)	Moisture (%)	BLOWS/FOOT 350 ft-lb	SAMPLE SIZE (inches)	SAMPLE No.	DEPTH IN FEET	MATERIAL SYMBOL	UNIFIED SOIL CLASS
		110	5	30	1.4	B 1	5	GM-ML	

Asphalt Concrete

Very stiff red brown CLAYEY SILT with GRAVEL, moist (Fill)

Bottom of hole at 10.0 feet.

Boring backfilled with cement grout on 3/7/07.

THE BORING LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

LOGGED BY: EMH

DATE: 03-19-2007

LOG OF BORING (SOILS ONLY) 1P2 304 175 BLAIR'S LANE.GPJ LIBRARY.GLB DATATEMPLATE.GDT 5/30/07

Taber
Since 1954
Taber Consultants
Engineers and Geologists
3911 West Capitol Avenue
West Sacramento, CA 95691-2116
916-371-1690 Fax: 916-371-7265

TEST BORING LOG

Job No. 1P2/304/175

TYPE: 4-INCH AUGER

ELEVATION: 1924.4'

BORING NO 6

UNCONFINED COMPRESSIVE STRENGTH (tsf)	OTHER TESTS	DRY DENSITY (lbs/cu. ft.)	Moisture (%)	BLOWS/FOOT 350 ft-lb	SAMPLE SIZE (inches)	SAMPLE No.	DEPTH IN FEET	MATERIAL SYMBOL	UNIFIED SOIL CLASS	
						D	5		GM-ML	Asphalt Concrete (Stiff) gray CLAYEY SILT with GRAVEL, hydrocarbon odor, moist (Fill)
							10			Bottom of hole at 5.0 feet. Boring backfilled with cement grout on 3/9/07.
							15			
							20			
							25			
							30			
							35			
							40			

THE BORING LOGS SHOW SUBSURFACE CONDITIONS AT THE DATES AND LOCATIONS INDICATED AND IT IS NOT WARRANTED THAT THEY ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

LOGGED BY: EMH

DATE: 03-20-2007

LOG OF BORING (SOILS ONLY) 1P2 304 175 BLAIR'S LANE.GPJ LIBRARY.GLB DATATEMPLATE.GDT 5/30/07

APPENDIX F.

SITE PHOTOGRAPHS

SITE PHOTOGRAPHS

Blairs Lane Bridge (Replacement) at Hangtown Creek
El Dorado County California
Existing bridge 25C0012

White paint on treated timber posts. Facing south from northeast corner. Taber Consultants photo 11/14/2014.

Painted steel beams below bridge.
Taber Consultants photo 6/20/2006.

White paint on treated timber posts. Facing west from Blairs Lane centerline. Taber Consultants photo 11/14/2014.

White paint on treated timber posts. Facing northwest from southeast corner. Taber Consultants photo 11/14/2014.

APPENDIX G.

TABER CONSULTANTS LIMITED ENVIRONMENTAL SUBSURFACE SITE INVESTIGATION
2007 SOIL AND GROUNDWATER ANALYTICAL SUMMARY TABLES

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ELD				

REGISTERED ENGINEERING GEOLOGIST

5/30/07
PLANS APPROVAL DATE

REGISTERED GEOLOGIST
DAVID A. KITZMANN
No. 2412
EXP. 12-31-07
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

TABER CONSULTANTS
3911 West Capitol Avenue
West Sacramento, CA 95691-2116

JOB No. 1P1/304/175 LOCATION: 38120-F7: 368N: 175W

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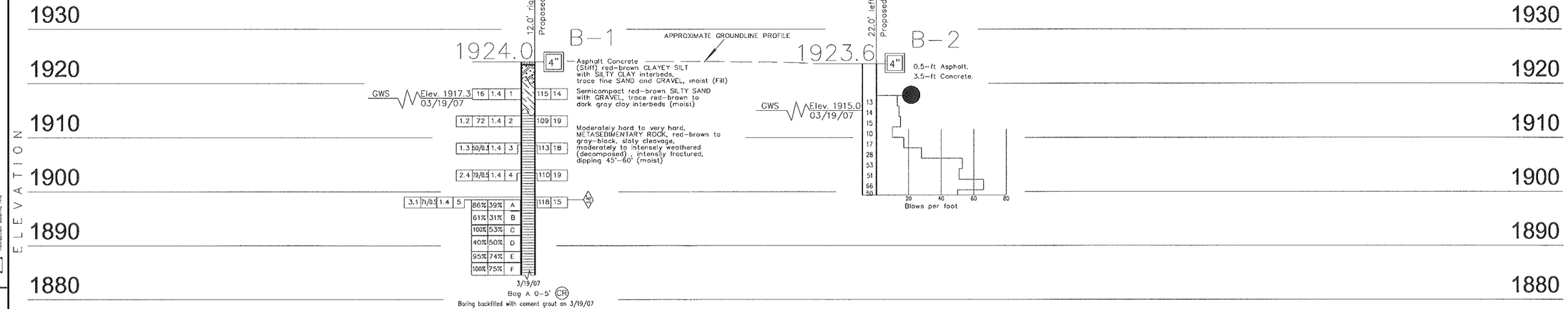
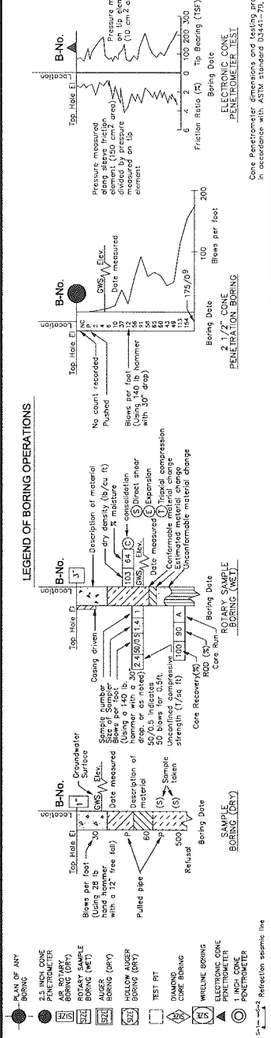


LEGEND OF BORING OPERATIONS



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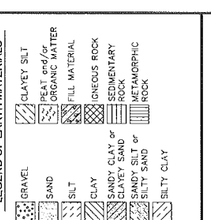

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DESIGN OVERSIGHT
SIGN OFF DATE

DRAWN BY X. NGUYEN
CHECKED BY DAVE KITZMAN

EVAN HOPSON
FIELD INVESTIGATOR
DATE MARCH 2007

PREPARED FOR
ELDORADO COUNTY
DEPARTMENT OF PUBLIC WORKS

PROJECT ENGINEER

BRIDGE NO.
POST MILE

BLAIR'S LANE BRIDGE AT HANGTOWN CREEK
LOG OF TEST BORINGS

04/07 1P2304175a.dwg

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU
EA

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET 1 OF 2

TABLE 1
SOIL ANALYTICAL DATA

Blairs Lane Bridge at Hangtown Creek
Placerville, California

Sample ID	Date	Depth (fbg)	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
			mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
B-4 (10.0')	3/20/2007	10	**9.5**	<1.0	<1.0	<1.0	<1.0	**1.1**
B-5 (10.0')	3/20/2007	10	<0.5	<1.0	**2.2**	**8.0**	**10.0**	<0.5

Explanation:
TPH-G = Total petroleum hydrocarbons, as gasoline, analyzed by EPA Method 8015M.
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B.
MTBE = Methyl tertiary-butyl ether, analyzed by EPA Method 8260B.

Analyses for the fuel oxygenates TBA, DIPE, ETBE and TAME were all below detection limits
Analyses for the fuel additives 1,2-DCA and EDB were all below detection limits

<n = Below laboratory detection limit of n ppm.
fbg = Feet below grade.
mg/kg = miiligrams per kilogram
ug/kg = micrograms per kilogram

TABLE 2
GROUNDWATER ANALYTICAL DATA

Blairs Lane Bridge at Hangtown Creek
Placerville, California

Sample ID	Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	DIPE	Acetone	cis-1,2 DCE	TCE	PCE	Napth-alene	1,2,3-Tri chloro benzene	Isopropyl benzene	n-Propyl benzene	sec-Butyl benzene	n-Butyl benzene
		mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
B-4	3/20/2007	**1,200**	**4.8**	<1.0	**12**	**4.3**	**3.5**	<2.0	**80**	**40**	**440**	**30**	**20**	<2.0	<2.0	<2.0	<2.0
B-5	3/20/2007	**760**	**10**	**4.2**	**3.8**	**10**	<1.0	**120**	**16**	**43**	**26**	**40**	**2.0**	**8.2**	**20**	**2.7**	**4.0**

Explanation:

TPH-G analyzed by EPA Method 8015M, all other constituents analyzed by EPA Method 8260B.

Only detected constituents are listed, see lab report for full list of tested constituents.

<n = Below laboratory detection limit of n ppm.

mg/L = milligrams per liter

ug/L = micrograms per liter

APPENDIX H.

SUNSTAR LABORATORIES ANALYTICAL REPORTS

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

30 December 2014

Ellen Pyatt
Taber Consultants
3911 West Capitol Ave.
West Sacramento, CA 95691

RE: Blairs Lane PSI

Enclosed are the results of analyses for samples received by the laboratory on 12/20/14 08:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1-10	T142634-02	Soil	12/18/14 10:18	12/20/14 08:55
SB-2-5	T142634-04	Soil	12/18/14 12:00	12/20/14 08:55
SB-3-8	T142634-06	Soil	12/18/14 15:15	12/20/14 08:55
SB-4-15	T142634-09	Soil	12/19/14 12:25	12/20/14 08:55
SB-1	T142634-10	Water	12/18/14 10:30	12/20/14 08:55
SB-2	T142634-11	Water	12/18/14 12:40	12/20/14 08:55
SB-3	T142634-12	Water	12/18/14 15:40	12/20/14 08:55
SB-4	T142634-13	Water	12/19/14 10:40	12/20/14 08:55
SB-5	T142634-14	Water	12/19/14 12:35	12/20/14 08:55
SB-5-6	T142634-15	Soil	12/19/14 12:15	12/20/14 08:55

DETECTIONS SUMMARY

Sample ID: SB-1-10 **Laboratory ID:** T142634-02

No Results Detected

Sample ID: SB-2-5 **Laboratory ID:** T142634-04

No Results Detected

Sample ID: SB-3-8 **Laboratory ID:** T142634-06

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Sample ID: SB-4-15 **Laboratory ID:** T142634-09

No Results Detected

Sample ID: SB-1 **Laboratory ID:** T142634-10

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**0.081**	0.050	mg/l	EPA 8015C	
cis-1,2-Dichloroethene	**44**	1.0	ug/l	EPA 8260B	
Tetrachloroethene	**92**	1.0	ug/l	EPA 8260B	
Trichloroethene	**10**	1.0	ug/l	EPA 8260B	

Sample ID: SB-2 **Laboratory ID:** T142634-11

No Results Detected

Sample ID: SB-3 **Laboratory ID:** T142634-12

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**0.057**	0.050	mg/l	EPA 8015C	
Tetrachloroethene	**4.5**	1.0	ug/l	EPA 8260B	

Sample ID: SB-4 **Laboratory ID:** T142634-13

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**3.7**	0.050	mg/l	EPA 8015C	
Diesel Range Hydrocarbons	**1.2**	0.050	mg/l	EPA 8015C	
n-Butylbenzene	**29**	1.0	ug/l	EPA 8260B	
sec-Butylbenzene	**12**	1.0	ug/l	EPA 8260B	
tert-Butylbenzene	**1.5**	1.0	ug/l	EPA 8260B	
Isopropylbenzene	**4.9**	1.0	ug/l	EPA 8260B	
Naphthalene	**9.8**	1.0	ug/l	EPA 8260B	
n-Propylbenzene	**21**	1.0	ug/l	EPA 8260B	
Benzene	**1.9**	0.50	ug/l	EPA 8260B	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Sample ID: SB-4 **Laboratory ID:** T142634-13

Analyte	Result	Reporting Limit	Units	Method	Notes
Toluene	**1.4**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**0.82**	0.50	ug/l	EPA 8260B	
m,p-Xylene	**3.4**	1.0	ug/l	EPA 8260B	
o-Xylene	**1.2**	0.50	ug/l	EPA 8260B	

Sample ID: SB-5 **Laboratory ID:** T142634-14

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**28**	0.050	mg/l	EPA 8015C	
Diesel Range Hydrocarbons	**2.5**	0.050	mg/l	EPA 8015C	
n-Butylbenzene	**110**	1.0	ug/l	EPA 8260B	
sec-Butylbenzene	**28**	1.0	ug/l	EPA 8260B	
tert-Butylbenzene	**4.0**	1.0	ug/l	EPA 8260B	
Isopropylbenzene	**82**	1.0	ug/l	EPA 8260B	
p-Isopropyltoluene	**86**	1.0	ug/l	EPA 8260B	
Naphthalene	**330**	25	ug/l	EPA 8260B	
n-Propylbenzene	**500**	25	ug/l	EPA 8260B	
1,3,5-Trimethylbenzene	**560**	25	ug/l	EPA 8260B	
1,2,4-Trimethylbenzene	**1600**	25	ug/l	EPA 8260B	
Benzene	**82**	0.50	ug/l	EPA 8260B	
Toluene	**16**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**1200**	12	ug/l	EPA 8260B	
m,p-Xylene	**2700**	25	ug/l	EPA 8260B	
o-Xylene	**5.4**	0.50	ug/l	EPA 8260B	

Sample ID: SB-5-6 **Laboratory ID:** T142634-15

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**79**	0.50	mg/kg	EPA 8015C	
Diesel Range Hydrocarbons	**20**	10	mg/kg	EPA 8015C	
n-Butylbenzene	**0.46**	0.0050	mg/kg	EPA 8260B	
sec-Butylbenzene	**0.13**	0.0050	mg/kg	EPA 8260B	
tert-Butylbenzene	**0.012**	0.0050	mg/kg	EPA 8260B	
Isopropylbenzene	**0.26**	0.0050	mg/kg	EPA 8260B	
p-Isopropyltoluene	**0.012**	0.0050	mg/kg	EPA 8260B	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Sample ID: SB-5-6 **Laboratory ID:** T142634-15

Analyte	Result	Reporting Limit	Units	Method	Notes
Naphthalene	**1.2**	0.050	mg/kg	EPA 8260B	
n-Propylbenzene	**0.87**	0.050	mg/kg	EPA 8260B	
1,3,5-Trimethylbenzene	**0.032**	0.0050	mg/kg	EPA 8260B	
1,2,4-Trimethylbenzene	**0.0095**	0.0050	mg/kg	EPA 8260B	
Benzene	**0.13**	0.0050	mg/kg	EPA 8260B	
Toluene	**0.013**	0.0050	mg/kg	EPA 8260B	
Ethylbenzene	**0.61**	0.0050	mg/kg	EPA 8260B	
m,p-Xylene	**0.10**	0.010	mg/kg	EPA 8260B	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-1-10

T142634-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.50	mg/kg	1	4122219	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*122 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	4122216	12/22/14	12/22/14	EPA 8015C	
Surrogate: p-Terphenyl		*90.4 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-1-10

T142634-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloroethane	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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SB-1-10

T142634-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethylbenzene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*86.0 %*	*85.5-116*		"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-2-5

T142634-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.50	mg/kg	1	4122219	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*118 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	4122216	12/22/14	12/22/14	EPA 8015C	
Surrogate: p-Terphenyl		*90.9 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-2-5

T142634-04 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-2-5

T142634-04 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	0.010	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*118 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*87.1 %*	*85.5-116*		"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-3-8

T142634-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.50	mg/kg	1	4122219	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*105 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	4122216	12/22/14	12/22/14	EPA 8015C	
Surrogate: p-Terphenyl		*95.5 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/24/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-3-8

T142634-06 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/24/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-3-8

T142634-06 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	0.010	mg/kg	1	4121933	12/19/14	12/24/14	EPA 8260B	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*121 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*91.0 %*	*85.5-116*		"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-4-15

T142634-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.50	mg/kg	1	4122219	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*110 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	4122216	12/22/14	12/22/14	EPA 8015C	
Surrogate: p-Terphenyl		*88.6 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-4-15

T142634-09 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-4-15

T142634-09 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	0.010	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*124 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*86.2 %*	*85.5-116*		"	"	"	"	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-1

T142634-10 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**0.081**	0.050	mg/l	1	4122218	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*116 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	0.050	mg/l	1	4122215	12/22/14	12/23/14	EPA 8015C	
Surrogate: p-Terphenyl		*89.4 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-1

T142634-10 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
cis-1,2-Dichloroethene	**44**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**92**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**10**	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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SB-1

T142634-10 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*91.6 %*	*88.8-117*		"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-2

T142634-11 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.050	mg/l	1	4122218	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*111 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	0.050	mg/l	1	4122215	12/22/14	12/23/14	EPA 8015C	
Surrogate: p-Terphenyl		*87.8 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-2

T142634-11 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-2

T142634-11 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*124 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*91.0 %*	*88.8-117*		"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-3

T142634-12 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**0.057**	0.050	mg/l	1	4122218	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*122 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	0.050	mg/l	1	4122215	12/22/14	12/23/14	EPA 8015C	
Surrogate: p-Terphenyl		*87.9 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-3

T142634-12 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**4.5**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-3

T142634-12 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*89.2 %*	*88.8-117*		"	"	"	"	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
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SB-4

T142634-13 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**3.7**	0.050	mg/l	1	4122218	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*85.6 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	**1.2**	0.050	mg/l	1	4122215	12/22/14	12/23/14	EPA 8015C	
Surrogate: p-Terphenyl		*85.1 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**29**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**12**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**1.5**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-4

T142634-13 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**4.9**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**9.8**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**21**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**1.9**	0.50	"	"	"	"	"	"	
Toluene	**1.4**	0.50	"	"	"	"	"	"	
Ethylbenzene	**0.82**	0.50	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-4

T142634-13 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	**3.4**	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
o-Xylene	**1.2**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*96.5 %*	*88.8-117*		"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-5

T142634-14 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**28**	0.050	mg/l	1	4122218	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*98.9 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	**2.5**	0.050	mg/l	1	4122215	12/22/14	12/23/14	EPA 8015C	
Surrogate: p-Terphenyl		*86.9 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**110**	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**28**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**4.0**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-5

T142634-14 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**82**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**86**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**330**	25	"	25	"	"	"	"	
n-Propylbenzene	**500**	25	"	"	"	"	"	"	
Styrene	ND	1.0	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**560**	25	"	25	"	"	"	"	
1,2,4-Trimethylbenzene	**1600**	25	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	1	"	"	"	"	
Benzene	**82**	0.50	"	"	"	"	"	"	
Toluene	**16**	0.50	"	"	"	"	"	"	
Ethylbenzene	**1200**	12	"	25	"	"	"	"	
m,p-Xylene	**2700**	25	"	"	"	"	"	"	

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SB-5

T142634-14 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
o-Xylene	**5.4**	0.50	ug/l	1	4122220	12/22/14	12/22/14	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*	*88.8-117*		"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-5-6

T142634-15 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**79**	0.50	mg/kg	1	4122219	12/22/14	12/22/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*119 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	**20**	10	mg/kg	1	4122216	12/22/14	12/22/14	EPA 8015C	
Surrogate: p-Terphenyl		*91.9 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	**0.46**	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	**0.012**	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-5-6

T142634-15 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	**0.26**	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	**0.012**	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	**1.2**	0.050	"	10	"	"	"	"	
n-Propylbenzene	**0.87**	0.050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**0.032**	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**0.0095**	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	**0.13**	0.0050	"	"	"	"	"	"	
Toluene	**0.013**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.61**	0.0050	"	"	"	"	"	"	
m,p-Xylene	**0.10**	0.010	"	"	"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

SB-5-6

T142634-15 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
o-Xylene	ND	0.0050	mg/kg	1	4121933	12/19/14	12/23/14	EPA 8260B	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*122 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*91.5 %*	*85.5-116*		"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122218 - EPA 5030 GC										
Blank (4122218-BLK1)				Prepared & Analyzed: 12/22/14						
C6-C12 (GRO)	ND	0.050	mg/l							
Surrogate: 4-Bromofluorobenzene	*106*		"	*100*		*106*	*65-135*			
LCS (4122218-BS1)				Prepared & Analyzed: 12/22/14						
C6-C12 (GRO)	5.11	0.050	mg/l	5.50		92.9	75-125			
Surrogate: 4-Bromofluorobenzene	*84.6*		"	*100*		*84.6*	*65-135*			
Matrix Spike (4122218-MS1)		**Source: T142634-10**		Prepared & Analyzed: 12/22/14						
C6-C12 (GRO)	5.23	0.050	mg/l	5.50	0.0808	93.6	65-135			
Surrogate: 4-Bromofluorobenzene	*100*		"	*100*		*100*	*65-135*			
Matrix Spike Dup (4122218-MSD1)		**Source: T142634-10**		Prepared & Analyzed: 12/22/14						
C6-C12 (GRO)	5.02	0.050	mg/l	5.50	0.0808	89.8	65-135	4.12	20	
Surrogate: 4-Bromofluorobenzene	*99.2*		"	*100*		*99.2*	*65-135*			
Batch 4122219 - EPA 5030 GC										
Blank (4122219-BLK1)				Prepared & Analyzed: 12/22/14						
C6-C12 (GRO)	ND	0.50	mg/kg							
Surrogate: 4-Bromofluorobenzene	*114*		"	*100*		*114*	*65-135*			
LCS (4122219-BS1)				Prepared & Analyzed: 12/22/14						
C6-C12 (GRO)	13.3	0.50	mg/kg	13.8		97.0	75-125			
Surrogate: 4-Bromofluorobenzene	*90.1*		"	*100*		*90.1*	*65-135*			
Matrix Spike (4122219-MS1)		**Source: T142634-02**		Prepared & Analyzed: 12/22/14						
C6-C12 (GRO)	13.4	0.50	mg/kg	13.8	0.0872	97.2	65-135			
Surrogate: 4-Bromofluorobenzene	*89.1*		"	*100*		*89.1*	*65-135*			

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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122219 - EPA 5030 GC										
Matrix Spike Dup (4122219-MSD1)	**Source: T142634-02**			Prepared & Analyzed: 12/22/14						
C6-C12 (GRO)	13.4	0.50	mg/kg	13.8	0.0872	96.5	65-135	0.731	20	
Surrogate: 4-Bromofluorobenzene	*94.6*		*"*	*100*		*94.6*	*65-135*			

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122215 - EPA 3510C GC										
Blank (4122215-BLK1)				Prepared & Analyzed: 12/22/14						
Diesel Range Hydrocarbons	ND	0.050	mg/l							
Surrogate: p-Terphenyl	*3.50*		*"*	*4.00*		*87.4*	*65-135*			
LCS (4122215-BS1)				Prepared & Analyzed: 12/22/14						
Diesel Range Hydrocarbons	18.1	0.050	mg/l	20.0		90.3	75-125			
Surrogate: p-Terphenyl	*3.59*		*"*	*4.00*		*89.7*	*65-135*			
Matrix Spike (4122215-MS1)		**Source: T142631-02**		Prepared: 12/22/14 Analyzed: 12/23/14						
Diesel Range Hydrocarbons	17.5	0.050	mg/l	20.0	ND	87.6	75-125			
Surrogate: p-Terphenyl	*3.57*		*"*	*4.00*		*89.2*	*65-135*			
Matrix Spike Dup (4122215-MSD1)		**Source: T142631-02**		Prepared: 12/22/14 Analyzed: 12/23/14						
Diesel Range Hydrocarbons	17.8	0.050	mg/l	20.0	ND	89.0	75-125	1.57	20	
Surrogate: p-Terphenyl	*3.62*		*"*	*4.00*		*90.5*	*65-135*			
Batch 4122216 - EPA 3550B GC										
Blank (4122216-BLK1)				Prepared & Analyzed: 12/22/14						
Diesel Range Hydrocarbons	ND	10	mg/kg							
Surrogate: p-Terphenyl	*88.0*		*"*	*100*		*88.0*	*65-135*			
LCS (4122216-BS1)				Prepared & Analyzed: 12/22/14						
Diesel Range Hydrocarbons	440	10	mg/kg	500		88.9	75-125			
Surrogate: p-Terphenyl	*90.4*		*"*	*100*		*90.4*	*65-135*			
Matrix Spike (4122216-MS1)		**Source: T142631-01**		Prepared & Analyzed: 12/22/14						
Diesel Range Hydrocarbons	470	10	mg/kg	500	ND	93.2	75-125			
Surrogate: p-Terphenyl	*91.5*		*"*	*100*		*91.5*	*65-135*			

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122216 - EPA 3550B GC										
Matrix Spike Dup (4122216-MSD1)	**Source: T142631-01**			Prepared & Analyzed: 12/22/14						
Diesel Range Hydrocarbons	450	10	mg/kg	500	ND	90.8	75-125	2.54	20	
Surrogate: p-Terphenyl	*90.2*		*"*	*100*		*90.2*	*65-135*			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4121933 - EPA 5030 GCMS										
Blank (4121933-BLK1)				Prepared: 12/19/14 Analyzed: 12/22/14						
Bromobenzene	ND	0.0050	mg/kg							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							
Bromoform	ND	0.0050	"							
Bromomethane	ND	0.0050	"							
n-Butylbenzene	ND	0.0050	"							
sec-Butylbenzene	ND	0.0050	"							
tert-Butylbenzene	ND	0.0050	"							
Carbon tetrachloride	ND	0.0050	"							
Chlorobenzene	ND	0.0050	"							
Chloroethane	ND	0.0050	"							
Chloroform	ND	0.0050	"							
Chloromethane	ND	0.0050	"							
2-Chlorotoluene	ND	0.0050	"							
4-Chlorotoluene	ND	0.0050	"							
Dibromochloromethane	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.010	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Dibromomethane	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
Dichlorodifluoromethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,1-Dichloroethene	ND	0.0050	"							
cis-1,2-Dichloroethene	ND	0.0050	"							
trans-1,2-Dichloroethene	ND	0.0050	"							
1,2-Dichloropropane	ND	0.0050	"							
1,3-Dichloropropane	ND	0.0050	"							
2,2-Dichloropropane	ND	0.0050	"							
1,1-Dichloropropene	ND	0.0050	"							
cis-1,3-Dichloropropene	ND	0.0050	"							
trans-1,3-Dichloropropene	ND	0.0050	"							
Hexachlorobutadiene	ND	0.0050	"							
Isopropylbenzene	ND	0.0050	"							

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4121933 - EPA 5030 GCMS										
Blank (4121933-BLK1)				Prepared: 12/19/14 Analyzed: 12/22/14						
p-Isopropyltoluene	ND	0.0050	mg/kg							
Methylene chloride	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0050	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Tert-amyl methyl ether	ND	0.020	"							
Tert-butyl alcohol	ND	0.050	"							
Di-isopropyl ether	ND	0.020	"							
Ethyl tert-butyl ether	ND	0.020	"							
Methyl tert-butyl ether	ND	0.020	"							
Surrogate: 4-Bromofluorobenzene	*0.0486*		"	*0.0400*		*122*	*81.2-123*			
Surrogate: Dibromofluoromethane	*0.0513*		"	*0.0400*		*128*	*95.7-135*			
Surrogate: Toluene-d8	*0.0380*		"	*0.0400*		*94.9*	*85.5-116*			

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4121933 - EPA 5030 GCMS										
LCS (4121933-BS1)				Prepared: 12/19/14 Analyzed: 12/22/14						
Chlorobenzene	0.124	0.0050	mg/kg	0.100		124	75-125			
1,1-Dichloroethene	0.122	0.0050	"	0.100		122	75-125			
Trichloroethene	0.118	0.0050	"	0.100		118	75-125			
Benzene	0.121	0.0050	"	0.100		121	75-125			
Toluene	0.116	0.0050	"	0.100		116	75-125			
Surrogate: 4-Bromofluorobenzene	*0.0414*		*"*	*0.0400*		*104*	*81.2-123*			
Surrogate: Dibromofluoromethane	*0.0498*		*"*	*0.0400*		*124*	*95.7-135*			
Surrogate: Toluene-d8	*0.0373*		*"*	*0.0400*		*93.3*	*85.5-116*			
LCS Dup (4121933-BSD1)				Prepared: 12/19/14 Analyzed: 12/22/14						
Chlorobenzene	0.116	0.0050	mg/kg	0.100		116	75-125	6.78	20	
1,1-Dichloroethene	0.118	0.0050	"	0.100		118	75-125	3.45	20	
Trichloroethene	0.112	0.0050	"	0.100		112	75-125	5.14	20	
Benzene	0.123	0.0050	"	0.100		123	75-125	1.27	20	
Toluene	0.118	0.0050	"	0.100		118	75-125	1.36	20	
Surrogate: 4-Bromofluorobenzene	*0.0418*		*"*	*0.0400*		*104*	*81.2-123*			
Surrogate: Dibromofluoromethane	*0.0480*		*"*	*0.0400*		*120*	*95.7-135*			
Surrogate: Toluene-d8	*0.0372*		*"*	*0.0400*		*93.1*	*85.5-116*			
Batch 4122220 - EPA 5030 GCMS										
Blank (4122220-BLK1)				Prepared & Analyzed: 12/22/14						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122220 - EPA 5030 GCMS										
Blank (4122220-BLK1)				Prepared & Analyzed: 12/22/14						
4-Chlorotoluene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Providing Quality Analytical Services Nationwide

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122220 - EPA 5030 GCMS										
Blank (4122220-BLK1)				Prepared & Analyzed: 12/22/14						
1,2,3-Trichloropropane	ND	1.0	ug/l							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	*8.90*		"	*8.00*		*111*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.36*		"	*8.00*		*117*	*81-136*			
Surrogate: Toluene-d8	*7.40*		"	*8.00*		*92.5*	*88.8-117*			
LCS (4122220-BS1)				Prepared & Analyzed: 12/22/14						
Chlorobenzene	22.2	1.0	ug/l	20.0		111	75-125			
1,1-Dichloroethene	22.1	1.0	"	20.0		111	75-125			
Trichloroethene	23.8	1.0	"	20.0		119	75-125			
Benzene	23.5	0.50	"	20.0		117	75-125			
Toluene	21.2	0.50	"	20.0		106	75-125			
Surrogate: 4-Bromofluorobenzene	*9.05*		"	*8.00*		*113*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.42*		"	*8.00*		*105*	*81-136*			
Surrogate: Toluene-d8	*7.47*		"	*8.00*		*93.4*	*88.8-117*			

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122220 - EPA 5030 GCMS										
LCS Dup (4122220-BSD1)				Prepared & Analyzed: 12/22/14						
Chlorobenzene	22.0	1.0	ug/l	20.0		110	75-125	0.903	20	
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125	4.44	20	
Trichloroethene	22.2	1.0	"	20.0		111	75-125	6.97	20	
Benzene	24.0	0.50	"	20.0		120	75-125	2.15	20	
Toluene	21.6	0.50	"	20.0		108	75-125	2.24	20	
Surrogate: 4-Bromofluorobenzene	*8.71*		"	*8.00*		*109*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.49*		"	*8.00*		*106*	*81-136*			
Surrogate: Toluene-d8	*7.17*		"	*8.00*		*89.6*	*88.8-117*			

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	12/30/14 14:02

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Drive
Lake Forest, Ca 92630
Bill Hannell cell phone 590-304-5525

COC # / Lab No. T142634 Page 1 of 3

Chain-of-Custody Record and Analysis Request

Project Contact (PDF To): **Ellen Pyatt**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Taber Consultants: 3911 West Capitol Ave. West Sacramento, CA 95691**	Sampling Company Log Code: **WRMC**
	Global ID:
Phone #: **916-371-1690** Fax #: **916-371-7265**	Deliver all files to: Epyatt@TaberConsultants.com
Project #: **1P2/304/175** Task #: PSI Analytical PO # 14-0259	Tballard@TaberConsultants.com
Project Name: **Blairs Lane PSI**	Sampler Signature:
Project Address: **Placerville, CA** El Dorado County	

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☑ 1 wk

	Sample ID	Field Pt. Name	Sampling Date	Sampling Time	Container: 40 ml VOA	Metal Tube	Poly	Glass Jar	Tedlar	Summa	Preservative: HCl	HNO_3	Sodium Bisulfate	Methanol	None ICE	Matrix: Water	Soil	Air	Analysis Request: 8260 Full Suite	Gasoline and Diesel EPA Method 8015	PAH EPA Method 8270	Chromatograms and Standards	Total
01	SB-1-6	SB-1	12.18.14	1010		X									X		X						X
02	SB-1-10	SB-1	12.18.14	1018		X									X		X		X	X		X	
03	SB-1-16	SB-1	12.18.14	1025		X									X		X						X
04	SB-2-5	SB-2	12.18.14	1200		X									X		X		X	X		X	
05	SB-2-10	SB-2	12.18.14	1210		X									X		X						X
06	SB-3-8	SB-3	12.18.14	1515		X									X		X		X	X		X	
07	SB-4-6.5	SB-4	12.19.14	0957		X									X		X						X
08	SB-4-11	SB-4	12.19.14	1015		X									X		X						X
09	SB-4-15	SB-4	12.19.14	1225		X									X		X		X	X		X	

Relinquished by:	Date: 12.19.14	Time: 2515	Received by:
Relinquished by: GSO	Date: 12/20/14	Time: 855	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

Remarks: **(THIs is NOT a USTCF Site)**
please save file(s), PDF's, EDF & XLS name as:
sample date year_month_day_ project name_ WO#
EXAMPLE:
2014_12_18 Blairs Lane
Bill to: Invoice@TaberConsultants.com

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time		
1.2	DM	12/20/14	855		

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25712 Commercentre Drive
Lake Forest, Ca 92630
Bill Hannell cell phone 590-304-5525

COC # / Lab No. T142634 Page 2 of 3

Project Contact (PDF To): **Ellen Pyatt**		California EDF Report? ☐ Yes ☑ No
Company / Address: **Taber Consultants: 3911 West Capitol Ave. West Sacramento, CA 95691**		Sampling Company Log Code: **WRMC**
		Global ID:
Phone #: **916-371-1690**	Fax #: **916-371-7265**	Deliver all files to: Epyatt@TaberConsultants.com
Project #: **1P2/304/175**	Task #: PSI Analytical PO # 14-0259	Tballard@TaberConsultants.com
Project Name: **Blairs Lane PSI**		Sampler Signature:
Project Address: **Placerville, CA** El Dorado County		

Chain-of-Custody Record and Analysis Request

	Sampling		Container						Preservative					Matrix			Analysis Request												TAT
Sample ID	Field Pt. Name	Date	Time	40 ml VOA	Metal Tube	Poly	Glass Jar	Tedlar	Summa	HCl	HNO_3	Sodium Bisulfate	Methanol	None	Water	Soil	Air	Full Suite 8260				Gasoline and Diesel EPA Method 8015	PAH EPA Method 8270					Chromatograms and Standards		12 hr / 24 hr / 48 hr / 72 hr / 1 wk
10 SB-1	SB-1	12.18.14	1030	6						X					X			X				X						X		
11 SB-2	SB-2	"	1240	6						X					X			X				X						X		
12 SB-3	SB-3	"	1540	6						X					X			X				X						X		
13 SB-4	SB-4	12.19.14	1040	6						X								X				X						X		
~~SB-5~~	~~SB-5~~	~~12.19.14~~	~~1235~~																											
14 SB-5	SB-5	12.19.14	1235	6						X					X			X				X						X		

Relinquished by:	Date: 12.19.14	Time: 2:15pm	Received by:
Relinquished by: GSO	Date: 12/20/14	Time: 855	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

Remarks: (THIs is NOT a USTCF Site)
please save file(s), PDF's, EDF & XLS name as:
sample date year_month_day_ project name_ WO#

EXAMPLE:
2014_12_18 Blairs Lane

Bill to: Invoice@TaberConsultants.com

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time		
1-2	GM	12/20/14	855		

SunStar Laboratories, Inc.
25712 Commercentre Drive
Lake Forest, Ca 92630
Bill Hannell cell phone 590-304-5525

COC # / Lab No. T142634

Chain-of-Custody Record and Analysis Request

Project Contact (PDF To): **Ellen Pyatt**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Taber Consultants: 3911 West Capitol Ave. West Sacramento, CA 95691**	Sampling Company Log Code: **WRMC**
	Global ID:
Phone #: **916-371-1690** / Fax #: **916-371-7265**	Deliver all files to: Epyatt@TaberConsultants.com
Project #: 1P2/304/175 / Task #: PSI Analytical PO # 14-0259	Tballard@TaberConsultants.com
Project Name: **Blairs Lane PSI**	Sampler Signature:
Project Address: **Placerville, CA** El Dorado County	

Sample ID	Field Pt. Name	Sampling Date	Sampling Time	40 ml VOA	Metal Tube	Poly	Glass Jar	Tedlar	Summa	HCl	HNO_3	Sodium Bisulfate	Methanol	None ICE	Water	Soil	Air	[redacted]	Gasoline and Diesel EPA Method 8015	PAH EPA Method 8270	[redacted]	Full Suite 8260	HOLD	Chromatagrams and Standards
15 SB-5-6	SB-5	12-19-14	1215		X									X		X			X			X		X
16 SB-5-11	SB-5	〃	1231													X							X	
[redacted]																								

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☑ 1 wk

Relinquished by:	Date	Time	Received by:
	12-19-14	0251pm	
GSO	12/20/14	855	
			Received by Laboratory:

Remarks: **(THIs is NOT a USTCF Site)**
please save file(s), PDF's, EDF & XLS name as:
sample date year_month_day_ project name_ WO#
EXAMPLE:
2014_12_18 Blairs Lane
Bill to: Invoice@TaberConsultants.com

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time
1.2	DM	12/20/14	855

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

SAMPLE RECEIVING REVIEW SHEET

BATCH # T142634

Client Name: Taber Consultants Project: Blairs Lane PSI

Received by: Dan M. Date/Time Received: 12/20/14 855

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 1.4 °C +/- the CF (- 0.2°C) = 1.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☒Yes	☐No*	☐N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date DM 12/20/14

Comments:

_____

_____

_____

_____

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
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13 January 2015

Ellen Pyatt
Taber Consultants
3911 West Capitol Ave.
West Sacramento, CA 95691

RE: Blairs Lane PSI

Enclosed are the results of analyses for samples received by the laboratory on 12/24/14 08:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager

SunStar Laboratories, Inc.
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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-6-6.5	T142666-01	Soil	12/22/14 13:00	12/24/14 08:55
SB-6-11	T142666-02	Soil	12/22/14 13:15	12/24/14 08:55
SB-7-6	T142666-03	Soil	12/22/14 16:15	12/24/14 08:55
SB-7-10.5	T142666-04	Soil	12/22/14 16:20	12/24/14 08:55
SB-8-3.5	T142666-05	Soil	12/22/14 10:20	12/24/14 08:55
LBP-1	T142666-06	Soil	12/22/14 17:45	12/24/14 08:55
LBP-2	T142666-07	Soil	12/22/14 17:50	12/24/14 08:55
LBP-3	T142666-08	Soil	12/23/14 14:35	12/24/14 08:55
LBP-4	T142666-09	Soil	12/23/14 15:45	12/24/14 08:55
S-1	T142666-10	Soil	12/23/14 15:30	12/24/14 08:55
SB-6	T142666-11	Water	12/22/14 13:30	12/24/14 08:55
SB-7	T142666-12	Water	12/22/14 16:50	12/24/14 08:55

DETECTIONS SUMMARY

Sample ID: SB-6-6.5 **Laboratory ID:** T142666-01

No Results Detected

Sample ID: SB-6-11 **Laboratory ID:** T142666-02

No Results Detected

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Sample ID: SB-7-6 **Laboratory ID:** T142666-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**0.013**	0.0050	mg/kg	EPA 8260B	

Sample ID: SB-7-10.5 **Laboratory ID:** T142666-04

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**15**	0.50	mg/kg	EPA 8015C	
Diesel Range Hydrocarbons	**190**	10	mg/kg	EPA 8015C	
n-Butylbenzene	**2.2**	0.050	mg/kg	EPA 8260B	
sec-Butylbenzene	**0.29**	0.0050	mg/kg	EPA 8260B	
tert-Butylbenzene	**0.033**	0.0050	mg/kg	EPA 8260B	
Isopropylbenzene	**0.13**	0.0050	mg/kg	EPA 8260B	
p-Isopropyltoluene	**0.0060**	0.0050	mg/kg	EPA 8260B	
Naphthalene	**1.1**	0.050	mg/kg	EPA 8260B	
n-Propylbenzene	**1.8**	0.050	mg/kg	EPA 8260B	

Sample ID: SB-8-3.5 **Laboratory ID:** T142666-05

No Results Detected

Sample ID: LBP-1 **Laboratory ID:** T142666-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	**9.9**	3.0	mg/kg	EPA 6010B	

Sample ID: LBP-2 **Laboratory ID:** T142666-07

Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	**86**	3.0	mg/kg	EPA 6010B	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Sample ID: LBP-3 **Laboratory ID:** T142666-08

Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	**6200**	3.0	mg/kg	EPA 6010B	

Sample ID: LBP-4 **Laboratory ID:** T142666-09

Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	**23000**	30	mg/kg	EPA 6010B	

Sample ID: S-1 **Laboratory ID:** T142666-10

Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	**110**	3.0	mg/kg	EPA 6010B	
Lead	**17**	0.10	mg/l	STLC Waste Extractio	

Sample ID: SB-6 **Laboratory ID:** T142666-11

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**0.061**	0.050	mg/l	EPA 8015C	

Sample ID: SB-7 **Laboratory ID:** T142666-12

Analyte	Result	Reporting Limit	Units	Method	Notes
C6-C12 (GRO)	**26**	0.050	mg/l	EPA 8015C	
n-Butylbenzene	**290**	25	ug/l	EPA 8260B	
sec-Butylbenzene	**86**	25	ug/l	EPA 8260B	
tert-Butylbenzene	**22**	1.0	ug/l	EPA 8260B	
cis-1,2-Dichloroethene	**1.6**	1.0	ug/l	EPA 8260B	
Isopropylbenzene	**66**	1.0	ug/l	EPA 8260B	
p-Isopropyltoluene	**2.8**	1.0	ug/l	EPA 8260B	
Naphthalene	**88**	1.0	ug/l	EPA 8260B	
n-Propylbenzene	**340**	25	ug/l	EPA 8260B	
Benzene	**2.6**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**3.6**	0.50	ug/l	EPA 8260B	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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West Sacramento CA, 95691	Project Manager:	Ellen Pyatt	01/13/15 15:49

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-6-6.5

T142666-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.50	mg/kg	1	4122415	12/24/14	12/30/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*119 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	4122601	12/26/14	12/27/14	EPA 8015C	
Surrogate: p-Terphenyl		*97.7 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-6-6.5

T142666-01 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloroethane	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
1,1-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-6-6.5

T142666-01 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethylbenzene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*126 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*92.6 %*	*85.5-116*		"	"	"	"	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-6-11

T142666-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.50	mg/kg	1	4122415	12/24/14	12/30/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*109 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	4122601	12/26/14	12/27/14	EPA 8015C	
Surrogate: p-Terphenyl		*94.2 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-6-11

T142666-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-6-11

T142666-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	0.010	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*124 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*85.5-116*		"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-7-6

T142666-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.50	mg/kg	1	4122415	12/24/14	12/30/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*112 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	4122601	12/26/14	12/27/14	EPA 8015C	
Surrogate: p-Terphenyl		*99.3 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-7-6

T142666-03 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	**0.013**	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-7-6

T142666-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	0.010	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.1 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*123 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*89.6 %*	*85.5-116*		"	"	"	"	

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SB-7-10.5

T142666-04 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**15**	0.50	mg/kg	1	4122415	12/24/14	12/30/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*75.6 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	**190**	10	mg/kg	1	4122601	12/26/14	12/27/14	EPA 8015C	
Surrogate: p-Terphenyl		*97.2 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	**2.2**	0.050	"	10	"	"	"	"	
sec-Butylbenzene	**0.29**	0.0050	"	1	"	"	"	"	
tert-Butylbenzene	**0.033**	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-7-10.5

T142666-04 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	**0.13**	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	**0.0060**	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	**1.1**	0.050	"	10	"	"	"	"	
n-Propylbenzene	**1.8**	0.050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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SB-7-10.5

T142666-04 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	0.010	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*128 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*85.5-116*		"	"	"	"	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-8-3.5

T142666-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	ND	0.50	mg/kg	1	4122415	12/24/14	12/30/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*113 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	10	mg/kg	1	4122601	12/26/14	12/27/14	EPA 8015C	
Surrogate: p-Terphenyl		*94.5 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

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T142666-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	0.0050	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0050	"	"	"	"	"	"	
Isopropylbenzene	ND	0.0050	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0050	"	"	"	"	"	"	
Methylene chloride	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0050	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0050	"	"	"	"	"	"	
Trichloroethene	ND	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-8-3.5

T142666-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA Method 8260B									
m,p-Xylene	ND	0.010	mg/kg	1	4122414	12/24/14	12/25/14	EPA 8260B	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	"	"	
Tert-butyl alcohol	ND	0.050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.020	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*	*85.5-116*		"	"	"	"	
PAH compounds by Semivolatile GCMS									
Acenaphthene	ND	0.30	mg/kg	1	4122914	12/29/14	12/31/14	EPA 8270C	
Acenaphthylene	ND	0.30	"	"	"	"	"	"	
Anthracene	ND	0.30	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.30	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.30	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.30	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.30	"	"	"	"	"	"	
Chrysene	ND	0.30	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.30	"	"	"	"	"	"	
Fluoranthene	ND	0.30	"	"	"	"	"	"	
Fluorene	ND	0.30	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.30	"	"	"	"	"	"	
Naphthalene	ND	0.30	"	"	"	"	"	"	
Phenanthrene	ND	0.30	"	"	"	"	"	"	
Pyrene	ND	0.30	"	"	"	"	"	"	
Surrogate: Terphenyl-dl4		*97.2 %*	*29.1-130*		"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

LBP-1

T142666-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Lead	**9.9**	3.0	mg/kg	1	4122925	12/29/14	12/29/14	EPA 6010B	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

LBP-2

T142666-07 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Lead	**86**	3.0	mg/kg	1	4122925	12/29/14	12/29/14	EPA 6010B	

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LBP-3

T142666-08 (Soil)

SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	**6200**	3.0	mg/kg	1	4122925	12/29/14	12/30/14	EPA 6010B	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

LBP-4

T142666-09 (Soil)

SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	**23000**	30	mg/kg	10	4122925	12/29/14	12/31/14	EPA 6010B	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

S-1

T142666-10 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Lead	**110**	3.0	mg/kg	1	4122925	12/29/14	12/30/14	EPA 6010B	
STLC Metals by 6000/7000 Series Methods									
Lead	**17**	0.10	mg/l	1	5010202	01/02/15	01/05/15	STLC Waste Extraction Test	

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SB-6

T142666-11 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**0.061**	0.050	mg/l	1	4122411	12/24/14	12/29/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*127 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	0.050	mg/l	1	4122915	12/29/14	12/29/14	EPA 8015C	
Surrogate: p-Terphenyl		*87.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	4122409	12/24/14	12/25/14	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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Katherine RunningCrane

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-6

T142666-11 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	4122409	12/24/14	12/25/14	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-6

T142666-11 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	1.0	ug/l	1	4122409	12/24/14	12/25/14	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*96.6 %*	*88.8-117*		"	"	"	"	

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-7

T142666-12 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purgeable Petroleum Hydrocarbons by EPA 8015C									
C6-C12 (GRO)	**26**	0.050	mg/l	1	4122411	12/24/14	12/29/14	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		*122 %*	*65-135*		"	"	"	"	
Extractable Petroleum Hydrocarbons by 8015C									
Diesel Range Hydrocarbons	ND	0.050	mg/l	1	4122915	12/29/14	12/29/14	EPA 8015C	
Surrogate: p-Terphenyl		*92.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	4122409	12/24/14	12/25/14	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	**290**	25	"	25	"	"	"	"	
sec-Butylbenzene	**86**	25	"	"	"	"	"	"	
tert-Butylbenzene	**22**	1.0	"	1	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	

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SB-7

T142666-12 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	ND	1.0	ug/l	1	4122409	12/24/14	12/25/14	EPA 8260B	
cis-1,2-Dichloroethene	**1.6**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**66**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**2.8**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	**88**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**340**	25	"	25	"	"	"	"	
Styrene	ND	1.0	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	**2.6**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	**3.6**	0.50	"	"	"	"	"	"	

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Taber Consultants	Project: Blairs Lane PSI	
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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

SB-7

T142666-12 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	1.0	ug/l	1	4122409	12/24/14	12/25/14	EPA 8260B	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.6 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*110 %*	*88.8-117*		"	"	"	"	

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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122411 - EPA 5030 GC										
Blank (4122411-BLK1)				Prepared: 12/24/14 Analyzed: 12/29/14						
C6-C12 (GRO)	ND	0.050	mg/l							
Surrogate: 4-Bromofluorobenzene	*110*		*"*	*100*		*110*	*65-135*			
LCS (4122411-BS1)				Prepared: 12/24/14 Analyzed: 12/29/14						
C6-C12 (GRO)	5.12	0.050	mg/l	5.50		93.1	75-125			
Surrogate: 4-Bromofluorobenzene	*84.4*		*"*	*100*		*84.4*	*65-135*			
Matrix Spike (4122411-MS1)		**Source: T142666-11**		Prepared: 12/24/14 Analyzed: 12/29/14						
C6-C12 (GRO)	5.02	0.050	mg/l	5.50	0.0612	90.2	65-135			
Surrogate: 4-Bromofluorobenzene	*105*		*"*	*100*		*105*	*65-135*			
Matrix Spike Dup (4122411-MSD1)		**Source: T142666-11**		Prepared: 12/24/14 Analyzed: 12/29/14						
C6-C12 (GRO)	5.05	0.050	mg/l	5.50	0.0612	90.7	65-135	0.638	20	
Surrogate: 4-Bromofluorobenzene	*96.5*		*"*	*100*		*96.5*	*65-135*			
Batch 4122415 - EPA 5030 GC										
Blank (4122415-BLK1)				Prepared: 12/24/14 Analyzed: 12/30/14						
C6-C12 (GRO)	ND	0.50	mg/kg							
Surrogate: 4-Bromofluorobenzene	*114*		*"*	*100*		*114*	*65-135*			
LCS (4122415-BS1)				Prepared: 12/24/14 Analyzed: 12/30/14						
C6-C12 (GRO)	12.9	0.50	mg/kg	13.8		94.0	75-125			
Surrogate: 4-Bromofluorobenzene	*98.9*		*"*	*100*		*98.9*	*65-135*			
Matrix Spike (4122415-MS1)		**Source: T142660-01**		Prepared: 12/24/14 Analyzed: 12/30/14						
C6-C12 (GRO)	11.8	0.50	mg/kg	13.8	0.0632	85.2	65-135			
Surrogate: 4-Bromofluorobenzene	*71.9*		*"*	*100*		*71.9*	*65-135*			

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122415 - EPA 5030 GC										
Matrix Spike Dup (4122415-MSD1)	**Source: T142660-01**			Prepared: 12/24/14	Analyzed: 12/30/14					
C6-C12 (GRO)	11.8	0.50	mg/kg	13.8	0.0632	85.6	65-135	0.467	20	
Surrogate: 4-Bromofluorobenzene	*76.9*		*"*	*100*		*76.9*	*65-135*			

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122601 - EPA 3550B GC										
Blank (4122601-BLK1)				Prepared: 12/26/14 Analyzed: 12/27/14						
Diesel Range Hydrocarbons	ND	10	mg/kg							
Surrogate: p-Terphenyl	*96.3*		*"*	*100*		*96.3*	*65-135*			
LCS (4122601-BS1)				Prepared: 12/26/14 Analyzed: 12/27/14						
Diesel Range Hydrocarbons	490	10	mg/kg	500		97.3	75-125			
Surrogate: p-Terphenyl	*94.1*		*"*	*100*		*94.1*	*65-135*			
Matrix Spike (4122601-MS1)		**Source: T142667-01**		Prepared: 12/26/14 Analyzed: 12/27/14						
Diesel Range Hydrocarbons	490	10	mg/kg	500	ND	98.8	75-125			
Surrogate: p-Terphenyl	*96.6*		*"*	*100*		*96.6*	*65-135*			
Matrix Spike Dup (4122601-MSD1)		**Source: T142667-01**		Prepared: 12/26/14 Analyzed: 12/27/14						
Diesel Range Hydrocarbons	470	10	mg/kg	500	ND	94.7	75-125	4.25	20	
Surrogate: p-Terphenyl	*93.0*		*"*	*100*		*93.0*	*65-135*			
Batch 4122915 - EPA 3510C GC										
Blank (4122915-BLK1)				Prepared & Analyzed: 12/29/14						
Diesel Range Hydrocarbons	ND	0.050	mg/l							
Surrogate: p-Terphenyl	*3.28*		*"*	*4.00*		*82.0*	*65-135*			
LCS (4122915-BS1)				Prepared & Analyzed: 12/29/14						
Diesel Range Hydrocarbons	18.0	0.050	mg/l	20.0		90.2	75-125			
Surrogate: p-Terphenyl	*3.36*		*"*	*4.00*		*84.1*	*65-135*			
Matrix Spike (4122915-MS1)		**Source: T142650-17**		Prepared & Analyzed: 12/29/14						
Diesel Range Hydrocarbons	20.1	0.050	mg/l	20.0	ND	100	75-125			
Surrogate: p-Terphenyl	*3.92*		*"*	*4.00*		*98.0*	*65-135*			

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122915 - EPA 3510C GC										
Matrix Spike Dup (4122915-MSD1)	**Source: T142650-17**			Prepared & Analyzed: 12/29/14						
Diesel Range Hydrocarbons	20.1	0.050	mg/l	20.0	ND	101	75-125	0.287	20	
Surrogate: p-Terphenyl	*4.57*		*"*	*4.00*		*114*	*65-135*			

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122925 - EPA 3051										
Blank (4122925-BLK1)				Prepared & Analyzed: 12/29/14						
Lead	ND	3.0	mg/kg							
LCS (4122925-BS1)				Prepared: 12/29/14 Analyzed: 12/30/14						
Lead	94.1	3.0	mg/kg	100		94.1	75-125			
Matrix Spike (4122925-MS1)	**Source: T142662-27**			Prepared & Analyzed: 12/29/14						
Lead	105	3.0	mg/kg	100	6.27	98.7	75-125			
Matrix Spike Dup (4122925-MSD1)	**Source: T142662-27**			Prepared & Analyzed: 12/29/14						
Lead	107	3.0	mg/kg	100	6.27	101	75-125	2.11	20	

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West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

STLC Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5010202 - STLC Metals										
Blank (5010202-BLK1)				Prepared: 01/02/15 Analyzed: 01/05/15						
Lead	ND	0.10	mg/l							
LCS (5010202-BS1)				Prepared: 01/02/15 Analyzed: 01/05/15						
Lead	11.3	0.10	mg/l	10.0		113	75-125			
Matrix Spike (5010202-MS1)	**Source: T142666-10**			Prepared: 01/02/15 Analyzed: 01/05/15						
Lead	30.5	0.10	mg/l	10.0	17.2	133	75-125			QM-05
Matrix Spike Dup (5010202-MSD1)	**Source: T142666-10**			Prepared: 01/02/15 Analyzed: 01/05/15						
Lead	30.6	0.10	mg/l	10.0	17.2	134	75-125	0.393	30	QM-05

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122409 - EPA 5030 GCMS										
Blank (4122409-BLK1)				Prepared: 12/24/14 Analyzed: 12/25/14						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122409 - EPA 5030 GCMS										
Blank (4122409-BLK1)				Prepared: 12/24/14 Analyzed: 12/25/14						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	*7.69*		"	*8.00*		*96.1*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.77*		"	*8.00*		*97.1*	*81-136*			
Surrogate: Toluene-d8	*8.05*		"	*8.00*		*101*	*88.8-117*			

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122409 - EPA 5030 GCMS										
LCS (4122409-BS1)				Prepared: 12/24/14 Analyzed: 12/25/14						
Chlorobenzene	17.3	1.0	ug/l	20.0		86.4	75-125			
1,1-Dichloroethene	16.8	1.0	"	20.0		83.8	75-125			
Trichloroethene	15.6	1.0	"	20.0		77.8	75-125			
Benzene	16.6	0.50	"	20.0		82.8	75-125			
Toluene	16.8	0.50	"	20.0		84.0	75-125			
Surrogate: 4-Bromofluorobenzene	*8.34*		"	*8.00*		*104*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.15*		"	*8.00*		*102*	*81-136*			
Surrogate: Toluene-d8	*7.56*		"	*8.00*		*94.5*	*88.8-117*			
Matrix Spike (4122409-MS1)		**Source: T142661-01**		Prepared: 12/24/14 Analyzed: 12/25/14						
Chlorobenzene	16.2	1.0	ug/l	20.0	ND	81.0	75-125			
1,1-Dichloroethene	16.7	1.0	"	20.0	ND	83.5	75-125			
Trichloroethene	24.3	1.0	"	20.0	7.58	83.8	75-125			
Benzene	16.5	0.50	"	20.0	ND	82.6	75-125			
Toluene	17.2	0.50	"	20.0	ND	86.0	75-125			
Surrogate: 4-Bromofluorobenzene	*8.32*		"	*8.00*		*104*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.75*		"	*8.00*		*109*	*81-136*			
Surrogate: Toluene-d8	*7.28*		"	*8.00*		*91.0*	*88.8-117*			
Matrix Spike Dup (4122409-MSD1)		**Source: T142661-01**		Prepared: 12/24/14 Analyzed: 12/25/14						
Chlorobenzene	17.1	1.0	ug/l	20.0	ND	85.6	75-125	5.52	20	
1,1-Dichloroethene	18.1	1.0	"	20.0	ND	90.4	75-125	7.88	20	
Trichloroethene	23.5	1.0	"	20.0	7.58	79.8	75-125	3.30	20	
Benzene	17.0	0.50	"	20.0	ND	84.8	75-125	2.51	20	
Toluene	17.4	0.50	"	20.0	ND	87.0	75-125	1.16	20	
Surrogate: 4-Bromofluorobenzene	*8.08*		"	*8.00*		*101*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.61*		"	*8.00*		*108*	*81-136*			
Surrogate: Toluene-d8	*7.46*		"	*8.00*		*93.2*	*88.8-117*			

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122414 - EPA 5030 GCMS										
Blank (4122414-BLK1)				Prepared: 12/24/14 Analyzed: 12/25/14						
Bromobenzene	ND	0.0050	mg/kg							
Bromochloromethane	ND	0.0050	"							
Bromodichloromethane	ND	0.0050	"							
Bromoform	ND	0.0050	"							
Bromomethane	ND	0.0050	"							
n-Butylbenzene	ND	0.0050	"							
sec-Butylbenzene	ND	0.0050	"							
tert-Butylbenzene	ND	0.0050	"							
Carbon tetrachloride	ND	0.0050	"							
Chlorobenzene	ND	0.0050	"							
Chloroethane	ND	0.0050	"							
Chloroform	ND	0.0050	"							
Chloromethane	ND	0.0050	"							
2-Chlorotoluene	ND	0.0050	"							
4-Chlorotoluene	ND	0.0050	"							
Dibromochloromethane	ND	0.0050	"							
1,2-Dibromo-3-chloropropane	ND	0.010	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Dibromomethane	ND	0.0050	"							
1,2-Dichlorobenzene	ND	0.0050	"							
1,3-Dichlorobenzene	ND	0.0050	"							
1,4-Dichlorobenzene	ND	0.0050	"							
Dichlorodifluoromethane	ND	0.0050	"							
1,1-Dichloroethane	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,1-Dichloroethene	ND	0.0050	"							
cis-1,2-Dichloroethene	ND	0.0050	"							
trans-1,2-Dichloroethene	ND	0.0050	"							
1,2-Dichloropropane	ND	0.0050	"							
1,3-Dichloropropane	ND	0.0050	"							
2,2-Dichloropropane	ND	0.0050	"							
1,1-Dichloropropene	ND	0.0050	"							
cis-1,3-Dichloropropene	ND	0.0050	"							
trans-1,3-Dichloropropene	ND	0.0050	"							
Hexachlorobutadiene	ND	0.0050	"							
Isopropylbenzene	ND	0.0050	"							

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3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122414 - EPA 5030 GCMS										
Blank (4122414-BLK1)				Prepared: 12/24/14 Analyzed: 12/25/14						
p-Isopropyltoluene	ND	0.0050	mg/kg							
Methylene chloride	ND	0.0050	"							
Naphthalene	ND	0.0050	"							
n-Propylbenzene	ND	0.0050	"							
Styrene	ND	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0050	"							
Tetrachloroethene	ND	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050	"							
1,1,2-Trichloroethane	ND	0.0050	"							
1,1,1-Trichloroethane	ND	0.0050	"							
Trichloroethene	ND	0.0050	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Tert-amyl methyl ether	ND	0.020	"							
Tert-butyl alcohol	ND	0.050	"							
Di-isopropyl ether	ND	0.020	"							
Ethyl tert-butyl ether	ND	0.020	"							
Methyl tert-butyl ether	ND	0.020	"							
Surrogate: 4-Bromofluorobenzene	*0.0382*		"	*0.0400*		*95.4*	*81.2-123*			
Surrogate: Dibromofluoromethane	*0.0424*		"	*0.0400*		*106*	*95.7-135*			
Surrogate: Toluene-d8	*0.0372*		"	*0.0400*		*92.9*	*85.5-116*			

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122414 - EPA 5030 GCMS										
LCS (4122414-BS1)				Prepared: 12/24/14 Analyzed: 12/25/14						
Chlorobenzene	0.0864	0.0050	mg/kg	0.100		86.4	75-125			
1,1-Dichloroethene	0.0838	0.0050	"	0.100		83.8	75-125			
Trichloroethene	0.0778	0.0050	"	0.100		77.8	75-125			
Benzene	0.0828	0.0050	"	0.100		82.8	75-125			
Toluene	0.0840	0.0050	"	0.100		84.0	75-125			
Surrogate: 4-Bromofluorobenzene	*0.0417*		"	*0.0400*		*104*	*81.2-123*			
Surrogate: Dibromofluoromethane	*0.0408*		"	*0.0400*		*102*	*95.7-135*			
Surrogate: Toluene-d8	*0.0378*		"	*0.0400*		*94.5*	*85.5-116*			
Matrix Spike (4122414-MS1)		**Source: T142663-03**		Prepared: 12/24/14 Analyzed: 12/25/14						
Chlorobenzene	0.0856	0.0050	mg/kg	0.100	ND	85.6	75-125			
1,1-Dichloroethene	0.0768	0.0050	"	0.100	ND	76.8	75-125			
Trichloroethene	0.110	0.0050	"	0.100	ND	110	75-125			
Benzene	0.0780	0.0050	"	0.100	ND	78.0	75-125			
Toluene	0.0778	0.0050	"	0.100	0.00370	74.2	75-125			QM-07
Surrogate: 4-Bromofluorobenzene	*0.0436*		"	*0.0400*		*109*	*81.2-123*			
Surrogate: Dibromofluoromethane	*0.0487*		"	*0.0400*		*122*	*95.7-135*			
Surrogate: Toluene-d8	*0.0368*		"	*0.0400*		*92.0*	*85.5-116*			
Matrix Spike Dup (4122414-MSD1)		**Source: T142663-03**		Prepared: 12/24/14 Analyzed: 12/25/14						
Chlorobenzene	0.0772	0.0050	mg/kg	0.100	ND	77.2	75-125	10.3	20	
1,1-Dichloroethene	0.0774	0.0050	"	0.100	ND	77.4	75-125	0.778	20	
Trichloroethene	0.112	0.0050	"	0.100	ND	112	75-125	1.84	20	
Benzene	0.0812	0.0050	"	0.100	ND	81.2	75-125	4.02	20	
Toluene	0.0788	0.0050	"	0.100	0.00370	75.0	75-125	1.15	20	
Surrogate: 4-Bromofluorobenzene	*0.0437*		"	*0.0400*		*109*	*81.2-123*			
Surrogate: Dibromofluoromethane	*0.0480*		"	*0.0400*		*120*	*95.7-135*			
Surrogate: Toluene-d8	*0.0367*		"	*0.0400*		*91.8*	*85.5-116*			

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

PAH compounds by Semivolatile GCMS - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4122914 - EPA 3550 ECD/GCMS										
Blank (4122914-BLK1)				Prepared: 12/29/14 Analyzed: 12/31/14						
Acenaphthene	ND	0.30	mg/kg							
Acenaphthylene	ND	0.30	"							
Anthracene	ND	0.30	"							
Benzo (a) anthracene	ND	0.30	"							
Benzo (b) fluoranthene	ND	0.30	"							
Benzo (k) fluoranthene	ND	0.30	"							
Benzo (g,h,i) perylene	ND	1.0	"							
Benzo (a) pyrene	ND	0.30	"							
Chrysene	ND	0.30	"							
Dibenz (a,h) anthracene	ND	0.30	"							
Fluoranthene	ND	0.30	"							
Fluorene	ND	0.30	"							
Indeno (1,2,3-cd) pyrene	ND	0.30	"							
Naphthalene	ND	0.30	"							
Phenanthrene	ND	0.30	"							
Pyrene	ND	0.30	"							
Surrogate: Terphenyl-dl4	*1.72*		*"*	*1.67*		*103*	*29.1-130*			
LCS (4122914-BS1)				Prepared: 12/29/14 Analyzed: 12/31/14						
Acenaphthene	1.26	0.30	mg/kg	1.67		75.5	38.9-79.4			
Pyrene	1.22	0.30	"	1.67		73.1	25-85.2			
Surrogate: Terphenyl-dl4	*1.62*		*"*	*1.67*		*97.4*	*29.1-130*			
LCS Dup (4122914-BSD1)				Prepared: 12/29/14 Analyzed: 12/31/14						
Acenaphthene	1.21	0.30	mg/kg	1.67		72.7	38.9-79.4	3.86	31	
Pyrene	1.19	0.30	"	1.67		71.5	25-85.2	2.13	31	
Surrogate: Terphenyl-dl4	*1.66*		*"*	*1.67*		*99.5*	*29.1-130*			

Katherine RunningCrane

Katherine RunningCrane, Project Manager

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Taber Consultants	Project: Blairs Lane PSI	
3911 West Capitol Ave.	Project Number: 1P2/304/175	**Reported:**
West Sacramento CA, 95691	Project Manager: Ellen Pyatt	01/13/15 15:49

Notes and Definitions

QM-07	The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.
25712 Commercentre Drive
Lake Forest, Ca 92630
Bill Hannell cell phone 590-304-5525

COC # / Lab No. 1142666 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (PDF To): **Ellen Pyatt**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Taber Consultants: 3911 West Capitol Ave. West Sacramento, CA 95691**	Sampling Company Log Code: **WRMC**
	Global ID:
Phone #: **916-371-1690** Fax #: **916-371-7265**	Deliver all files to: Epyatt@TaberConsultants.com
Project #: **1P2/304/175** Task #: PSI Analytical PO # 14-0259	Tballard@TaberConsultants.com
Project Name: **Blairs Lane PSI**	Sampler Signature:
Project Address: **Placerville, CA** El Dorado County	

Sample ID	Field Pt. Name	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: Metal Tube	Container: Glass Jar	Container: Tedlar	Container: Summa	Preservative: HCl	Preservative: HNO_3	Preservative: Sodium Bisulfate	Preservative: Methanol	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: Multimedia Full 8260	Gasoline and Diesel EPA Method 8015	PAH EPA Method 8270	EPA 6010 LEAD	Chromatograms and Standards	TAT
SB-6-6.5	SB-6	12.22.14	1300		X								X	X			X	X			X	01
SB-6-11	SB-6	12.22.14	1315		X								X	X			X	X			X	02
SB-7-6	SB-7	12.22.14	1615		X								X	X			X	X			X	03
SB-7-11.5	SB-7	12.22.14	1620		X								X	X			X	X			X	04
SB-8-3.5	SB-8	12.22.14	1020		X								X	X			X	X	X		X	05
LBP-1	LBP-1	12.22.14	1745			X							X			X				X		06
LBP-2	LBP-2	12.22.14	1750			X							X			X				X		07
LBP-3	LBP-3	12.23.14	1455			X							X			X				X		08
LBP-4	LBP-4	12.23.14	1545			X							X			X				X		09
S-1	S-1	12.23.14	1530			X							X			X				X		10

Relinquished by:	Date	Time	Received by:
	12.23.14	17:30	
Relinquished by:	Date	Time	Received by:
GSC	12.24.14	8:55	
Relinquished by:	Date	Time	Received by Laboratory:

Remarks: **(THIs is NOT a USTCF Site)**
please save file(s), PDF's, EDF & XLS name as:
sample date year_month_day_ project name_ WO#
EXAMPLE:
2014_12_18 Blairs Lane
Bill to: Invoice@TaberConsultants.com

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time		
3.8	BC	12.24.14	8:55		

SunStar Laboratories, Inc.
25712 Commercentre Drive
Lake Forest, Ca 92630
Bill Hannell cell phone 590-304-5525

COC # / Lab No. T142666

Chain-of-Custody Record and Analysis Request

Project Contact (PDF To): **Ellen Pyatt**

Company / Address: **Taber Consultants: 3911 West Capitol Ave. West Sacramento, CA 95691**

Phone #: **916-371-1690** Fax #: **916-371-7265**

Project #: 1P2/304/175 Task #: PSI Analytical PO # 14-0259

Project Name: **Blairs Lane PSI**

Project Address: **Placerville, CA** El Dorado County

California EDF Report? ☐ Yes ☑ No

Sampling Company Log Code: **WRMC**

Global ID:

Deliver all files to: Epyatt@TaberConsultants.com

Tballard@TaberConsultants.com

Sampler Signature:

Sample ID	Field Pt. Name	Sampling Date	Sampling Time	Container: 40 ml VOA	Metal Tube	Poly	Glass Jar	Tedlar	Summa	Preservative: HCl	HNO_3	Sodium Bisulfate	Methanol	None	Matrix: Water	Soil	Air	Analysis Request: Full Suite 8260	[redacted]	Gasoline and Diesel EPA Method 8015	[redacted]	PAH 8270	Chromatagrams and Standards	TAT	
SB-6	SB-6	12-22-14	1330	6						X					X			X		X			X		11
SB-7	SB-7	↓	1650	8						X					X			X		X		X	X		12

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☑ 1 wk

Relinquished by:	Date	Time	Received by:
	12-23-14	AM	
Relinquished by: GSO	12-24-14	8:55	Received by:
Relinquished by:	Date	Time	Received by Laboratory:

Remarks: **(THIs is NOT a USTCF Site)**
please save file(s), PDF's, EDF & XLS name as:
sample date year_month_day_ project name_ WO#
EXAMPLE: **2014_12_18 Blairs Lane** Note - PAHs for SB-7 - use water
Bill to: Invoice@TaberConsultants.com

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time		
3.8	BC	1			

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T192666

Client Name: TABER

Project: BLAIRS LANE DSI

Received by: BRIAN

Date/Time Received: _____

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 9.0 °C +/- the CF (- 0.2°C) = 3.8 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒ Yes	☐ No*	☐ N/A
Custody Seals Intact on Cooler/Sample	☒ Yes	☐ No*	☐ N/A
Sample Containers Intact	☒ Yes	☐ No*	
Sample labels match COC ID's	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☒ Yes	☐ No*	☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date BC 12/24/14

Comments:

_____

_____

_____

_____

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

February 23, 2015

Attn: Ellen Pyatt
Project Geologist
Taber Consultants

Re: Blairs Lane PSI

In sample S-1 from Blairs Lane PSI, the soluble Lead concentration was 17mg/l, while the total Lead Concentration was 110mg/kg. Theoretically, the soluble Lead concentration is supposed to be ten percent of the total Lead concentration, so the soluble result is 6mg/l higher than expected.

The theoretical value for the soluble concentration is more of a guideline than a rule. Although the samples are homogenized at the lab, slight deviations from theoretical values are common, and a deviation of 6mg/l is no cause for concern. The soil used for the STLC extraction is sieved, and the finer particles in soil tend to be more concentrated with the analytes we test for compared to the larger chunks. This is especially the case when samples contain paint chips, because they easily pass through the sieve. This most likely accounts for the higher than expected soluble concentration.

Sincerely,

Katherine RunningCrane
Project Manager
SunStar Laboratories, Inc.

APPENDIX I.

CALTRANS 2010 SPECIAL STANDARD PROVISIONS AND NON-STANDARD SPECIAL PROVISIONS

Replace section 7-1.02K(6)(j)(iii) with:

7-1.02K(6)(j)(iii) Earth Material Containing Lead

Section 7-1.02K(6)(j)(iii) includes specifications for handling, removing, and disposing of earth material containing lead.

Submit a lead compliance plan.

Lead is present in earth material on the job site. The average lead concentrations are below 1,000 mg/kg total lead and below 5 mg/L soluble lead. The material on the job site:

1. Is not a hazardous waste
2. Does not require disposal at a permitted landfill or solid waste disposal facility

Lead is typically found within the top 2 feet of material in unpaved areas of the highway. Reuse all of the excavated material on the right-of-way. Haul and place the surplus excavated material on the right-of-way at _____.

Lead has been detected in material to a depth of _____ in unpaved areas of the highway. Levels of lead found on the job site range from less than ____ to ____ mg/kg total lead with an average concentration of _____ mg/kg total lead as analyzed by EPA test method 6010 or EPA test method 7000 series and based upon a 95 percent upper confidence limit. Levels of lead found within the project limits have a predicted average soluble concentration of ____ mg/L as analyzed by the California Waste Extraction Test and based upon a 95 percent upper confidence limit.

Handle the material under all applicable laws, rules, and regulations, including those of the following agencies:

1. Cal/OSHA
2. CA RWQCB, Region__—_____
3. CA Department of Toxic Substances Control
4. _____

Manage the material as shown in the following table.

Earth Material Management

Location	Depth	Management requirements

If the material is disposed of:

1. Disclose the lead concentration of the material to the receiving property owner when obtaining authorization for disposal on the property
2. Obtain the receiving property owner's acknowledgment of lead concentration disclosure in the written authorization for disposal
3. You are responsible for any additional sampling and analysis required by the receiving property owner

If you choose to dispose of the material at a commercial landfill:

1. Transport it to a Class III or Class II landfill appropriately permitted to receive the material
2. You are responsible for identifying the appropriately permitted landfill to receive the material and for all associated trucking and disposal costs, including any additional sampling and analysis required by the receiving landfill

Add to section 14-9.02A

Notify the following agencies as required by the National Emission Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR Part 61, Subpart M, and California Health and Safety Code section 39658(b)(1). Notification must take place not less than 10 days before starting demolition or renovation activities as defined in the NESHAP regulations. Notification forms and other information are available from the California Air Resources Board web site at: http://www.arb.ca.gov/enf/oasse.htm#asb.

The contractor must mail the original notification form with any necessary attachments to:

U.S. EPA, REGION IX
ASBESTOS NESHAP NOTIFICATION (AIR-5)
75 HAWTHORNE STREET
SAN FRANCISCO, CA 94105

Mail a copy or send a fax of the notification form and any necessary attachments to:

CALIFORNIA AIR RESOURCES BOARD
ENFORCEMENT DIVISION
ASBESTOS NESHAP NOTIFICATION
POST OFFICE BOX 2815
SACRAMENTO, CA 95812
Fax: (916) 445-7986

Notify other local permit agencies and utility companies before starting any demolition activities. Submit a copy of the notification form and attachments as an informational submittal before starting demolition or renovation activities.

Add to section 14-9.02A

http://www.arb.ca.gov/capcoa/roster.htm.

Notify the Air Pollution Control District (APCD)or Air Quality Management District (AQMD) identified below as required by the National Emission Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR Part 61, Subpart M, and California Health and Safety Code section 39658(b)(1). Notification must take place no less than 14 days before starting demolition or renovation activities as defined in the NESHAP regulations. Notification forms and other information are available from:

6Forms and information may also be obtained from the air district's web site at: http://www.aqmd.gov.

Mail or otherwise deliver the original notification form with any necessary attachments to:

Notify other local permit agencies and utility companies before starting any demolition activities. Submit a copy of the notification form and attachments as an informational submittal before starting demolition or renovation activities.

Replace "Reserved" in section 14-11.08 with:

14-11.08A General

Section 14-11.08 includes specifications relating to the disturbance of existing paint systems.

The existing paint system on bridge number _____ contains _____. Any work that disturbs the existing paint system exposes workers to health hazards and produces:

1. Debris containing heavy metal in amounts that exceed the thresholds established in 8 CA Code of Regs and 22 CA Code of Regs. This debris is a Department-generated hazardous waste.
2. Toxic fumes when heated.

Grime and detritus already on the bridge before the start of work may also contain lead. Consider this grime and detritus part of the existing paint system. The Department is the hazardous waste generator if the Engineer accepts waste-characterization test results demonstrating that the debris is a hazardous waste.

Contain all debris produced when the existing paint system is disturbed. If containment measures are inadequate to contain and collect debris produced when the existing paint system is disturbed, stop the work and do not perform additional work until:

1. Revised debris containment and collection plan has been authorized
2. Released material has been collected and contained

Handle, store, transport, and dispose of debris produced when the existing paint system is disturbed under applicable federal, state, and local hazardous waste laws.

14-11.08B Submittals

14-11.08B(1) General

Not Used

14-11.08B(2) Debris Containment and Collection Plan

Submit a debris containment and collection plan. The plan must:

1. Identify materials, equipment, and methods to be used when the existing paint system is disturbed
2. Include shop drawings of:
   2.1. Containment systems complying with section 59-2.03B(3)
   2.2. Components that provide ventilation, air movement, and visibility for worker safety
3. Include the name and location of the analytical laboratory that will perform the analyses
4. Identify the hazardous waste transporter that will haul the debris and provide documentation of
   4.1 Current DTSC registration
   4.2 Compliance with the CA Highway Patrol Biennial Inspection of Terminals Program
5. Include the name and location of the disposal facility that will accept the hazardous waste

Allow 20 days for review.

If required, submit a revised debris containment and collection plan.

14-11.08B(3) Lead Compliance Plan

Submit a lead compliance plan under section 7-1.02K(6)(j)(ii).

14-11.08B(4) Air Monitoring Reports

Air monitoring reports, including test results for samples taken after corrective action, must be prepared by the CIH and submitted:

1. Verbally within 48 hours after sampling
2. As an informational submittal within 5 days after sampling

Air monitoring reports must include:

1. Date and location of sample collection, sample number, contract number, bridge number, full name of the structure, and District-County-Route-Post mile

2. Name and address of the certified laboratory that performed the analyses
3. Chain of custody documentation
4. List of emission control measures in place when air samples were taken
5. Air sample results compared to the appropriate permissible exposure limit (PEL)
6. Corrective action recommended by the CIH to ensure exposure to airborne metals outside containment systems and work areas is within specified limits
7. Signature of the CIH who reviewed the data and made recommendations

Not Used

14-11.08B(5) Soil Sampling Results for Debris Containment Verification

Submit test results of soil analysis verifying debris containment, including results for soil samples taken after corrective action:

1. Verbally within 48 hours after sampling
2. Within 5 days after sampling

Soil sampling results must include:

1. Date and location of sample collection, sample number, contract number, bridge number, full name of the structure and District-County-Route-Post mile
2. Concentrations of heavy metals expressed in mg/kg and mg/L
3. Name and address of the certified laboratory that performed the analyses
4. Chain of custody documentation

Not Used

14-11.08B(6) Waste-Characterization Test Results

Submit waste-characterization test results for the debris and chain of custody documentation before:

1. Requesting the Engineer’s signature on the disposal facility's waste profile document
2. Requesting a generator's EPA Identification Number
3. Removing the debris from the site

14-11.08B(7) Request for U.S. Environmental Protection Agency Identification Number

Submit a request for the generator's EPA Identification Number when the Engineer accepts waste-characterization test results documenting that the debris is a hazardous waste.

14-11.08B(8) Disposal Documentation

Submit documentation from the receiving landfill or recycling facility confirming proper disposal within 5 business days of transporting debris from the project.

14-11.08C Safety and Health Provisions

14-11.08C(1) General

Comply with 8 CA Code of Regs, including § 1532.1.

14-11.08C(2) Protective Work Clothing and Washing Facilities

Supply clean protective work clothing for 5 Department personnel:

1. Whenever there is possible exposure to heavy metals or silica dust
2. During application of paint undercoats

Replace protective work clothing as needed.

Protective work clothing and washing facilities must be inspected and authorized for use by Department personnel before starting any activity with the potential for lead exposure.

Protective work clothing remains your property upon completion of the Contract.

14-11.08D Work Area Monitoring

14-11.08D(1) General

Monitor the ambient air and soil in and around the work area to verify the effectiveness of the containment system. Work area monitoring includes:

1. Collecting, analyzing, and reporting air and soil test results
2. Recommending corrective action when specified air or soil concentrations are exceeded

Collect air and soil samples at locations designated by the Engineer.

Not Used

14-11.08D(2) Air Monitoring

Air monitoring must be performed under the direction of a CIH.

Collect and analyze air samples to detect lead under the National Institute of Occupational Safety and Health (NIOSH) Method 7082 using a detection limit of at least 0.05 $\mu g/m^3$. Collect and analyze air samples to detect other metals under NIOSH Method 7300 using a detection limit of at least 1 percent of the appropriate PEL specified by Cal/OSHA. You may use alternative methods of sampling and analysis with equivalent detection limits.

Concentrations of airborne metals outside containment systems and work areas must not exceed any of the following:

1. Average of 1.5 $\mu g/m^3$ of air per day and 0.15 $\mu g/m^3$ per day on a rolling 90-day basis. Calculate average daily concentrations based on monitoring to date and projections based on monitoring trends for the next 90 days or to the end of work subject to the lead compliance plan if less than the specified averaging period.
2. 10 percent of the action level specified for lead by 8 CA Code of Regs §1532.1.
3. 10 percent of the appropriate PELs specified for other metals by Cal/OSHA.

Collect air samples daily during work activities that disturb the existing paint system. Air samples must be analyzed within 48 hours by a facility accredited by the Environmental Lead Laboratory Accreditation Program of the American Industrial Hygiene Association. If concentrations of airborne metals exceed allowable levels, modify the containment system or work activities to prevent further release of metals. If the CIH recommends corrective action, collect and analyze additional samples after implementing the corrective action unless directed otherwise.

Not Used

14-11.08D(3) Soil Sampling for Debris Containment

Collect ___ soil samples before starting work and collect ____ soil samples within 36 hours after cleaning existing steel. A soil sample consists of 5 plugs, each 3/4 inch in diameter and 1/2 inch deep, taken at each corner and center of a 1 sq yd area. Analyze soil samples for:

1. Total _____ by US EPA Method 6010B or US EPA Method 7000 Series
2. Soluble _____ by California Waste Extraction Test (CA WET)

The laboratory that analyzes the samples must be certified by CDPH's Environmental Laboratory Accreditation Program (ELAP) for all analyses to be performed.

Concentrations of heavy metals in the work area soil must not increase when the existing paint system is disturbed. If soil sampling shows an increase in the concentrations of heavy metals after completing the work:

1. Clean the affected area
2. Resample until soil sampling and testing shows concentrations of heavy metals less than or equal to the concentrations collected before the start of work

In areas without exposed soil, the concentrations of heavy metals in the work area must not increase when the existing paint system is disturbed. Any visible increase in the concentrations of heavy metals must be removed.

14-11.08E Debris Management

14-11.08E(1) Debris Storage

Debris produced when the existing paint system is disturbed must not be temporarily stored on the ground. Before the end of each work shift, remove accumulated debris from the containment system. Store the debris as a hazardous waste.

14-11.08E(2) Debris Waste Characterization

Perform waste characterization testing on the debris as required by the disposal facility including:

1. Total _____ by US EPA Method 6010B
2. Soluble _____ by California Waste Extraction Test (CA WET)
3. Soluble _____ by Toxicity Characteristic Leaching Procedure (TCLP)

From the first 220 gal of hazardous waste or portion thereof, if less than 220 gal of hazardous waste are produced, a minimum of 4 randomly selected samples must be taken and analyzed individually. Samples must not be composited. From each additional 880 gal of hazardous waste or portion thereof, if less than 880 gal are produced, a minimum of 1 additional random sample must be taken and analyzed.

Use chain of custody procedures consistent with chapter 9 of US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) while transporting samples from the job site to the analytical laboratory. The laboratory must be certified by the CDPH's Environmental Laboratory Accreditation Program (ELAP) for all analyses to be performed.

Before performing the analyses, the laboratory must homogenize each sample. The homogenization process must not include grinding of the samples. A sample aliquot must be:

1. Obtained in an amount large enough for all analyses to be performed
2. Homogenized a 2nd time
3. Used for the total and soluble analyses after the 2nd homogenization

14-11.08E(3) Debris Transport and Disposal

14-11.08E(3)(a) General

For bidding purposes, assume the debris is a hazardous waste.

14-11.08E(3)(b) Hazardous Waste Debris

After the Engineer accepts the waste-characterization test results, dispose of the debris:

1. Within __ days after accumulating 220 lb of debris
2. At an appropriately permitted Class I facility located in California

Make all arrangements with the operator of the disposal facility.

If less than 220 lb of hazardous waste is generated in total, dispose of it within __ days after the start of accumulation of the debris.

Use a hazardous waste manifest and a transporter using vehicles with current DTSC registration certificate when transporting hazardous waste. The Engineer provides the generator's EPA Identification Number and signs all manifests as the hazardous waste generator within 2 business days of accepting the waste-characterization test results and receiving your request for the generator's EPA Identification Number.

14-11.08E(3)(c) Nonhazardous Waste Debris

If waste characterization test results demonstrate that the debris is a nonhazardous waste and the Engineer accepts the results, dispose of the debris at an appropriately permitted CA Class II or CA Class III facility or recycle it. Make all arrangements with the operator of the disposal facility and comply with the facility's requirements.

You may dispose of nonhazardous debris at a facility equipped to recycle the debris if:

1. Copper slag abrasive blended by the supplier with a calcium silicate compound is used for blast cleaning.
2. You make all arrangements with the recycling facility's operator and perform any facility-required testing of the debris.

The Department does not adjust payment for disposal of nonhazardous debris at a recycling facility.

Replace section 14-11.09 with:

14-11.09 TREATED WOOD WASTE

14-11.09A General

14-11.09A(1) Summary

Section 14-11.09 includes specifications for handling, storing, transporting, and disposing of treated wood waste (TWW).

Wood removed from _____ is TWW. Manage TWW under 22 CA Code of Regs, Div. 4.5, Chp. 34.

14-11.09A(2) Submittals

For disposal of TWW, submit as an informational submittal a copy of each completed shipping record and weight receipt within 5 business days.

14-11.09B Materials

Not Used

14-11.09C Construction

14-11.09C(1) General

Not Used

14-11.09C(2) Training

Provide training to personnel who handle TWW or may come in contact with TWW. Training must include:

1. Applicable requirements of 8 CA Code of Regs
2. Procedures for identifying and segregating TWW
3. Safe handling practices
4. Requirements of 22 CA Code of Regs, Div. 4.5, Chp. 34
5. Proper disposal methods

Maintain records of personnel training for 3 years.

14-11.09C(3) Storage

Store TWW before disposal using the following methods:

1. Elevate on blocks above a foreseeable run-on elevation and protect from precipitation for no more than 90 days.
2. Place on a containment surface or pad protected from run-on and precipitation for no more than 180 days.
3. Place in water-resistant containers designed for shipping or solid waste collection for no more than 1 year.
4. Place in a storage building as defined in 22 CA Code of Regs, Div. 4.5, Chp. 34, § 67386.6(a)(2)(C).

Prevent unauthorized access to TWW using a secured enclosure such as a locked chain-link-fenced area or a lockable shipping container located within the job site.

Resize and segregate TWW at a location where debris from the operation including sawdust and chips can be contained. Collect and manage the debris as TWW.

Provide water-resistant labels that comply with 22 CA Code of Regs, Div. 4.5, Chp. 34, §67386.5, to clearly mark and identify TWW and accumulation areas. Labels must include:

1. Caltrans, District number, Construction, Construction Contract number
2. District office address
3. Engineer's name, address, and telephone number
4. Contractor's contact name, address and telephone number
5. Date placed in storage

14-11.09C(4) Transporting and Disposal

Before transporting TWW, obtain an agreement from the receiving facility that the TWW will be accepted. Protect shipments of TWW from loss and exposure to precipitation. For projects with 10,000 lb or more of TWW, request a generator's EPA Identification Number at least 5 business days before the 1st shipment. Each shipment must be accompanied by a shipping record such as a bill of lading or invoice that includes:

1. Caltrans with district number
2. Construction Contract number
3. District office address
4. Engineer's name, address, and telephone number
5. Contractor's contact name and telephone number
6. Receiving facility name and address
7. Waste description: Treated Wood Waste with preservative type if known or unknown/mixture
8. Project location
9. Estimated quantity of shipment by weight or volume
10. Date of transport
11. Date of receipt by the receiving TWW facility
12. Weight of shipment as measured by the receiving TWW facility
13. Generator's EPA Identification Number for projects with 10,000 lb or more of TWW

The shipping record must be at least a 4-part carbon or carbonless 8-1/2-by-11-inch form to allow retention of copies by the Engineer, transporter, and disposal facility.

Dispose of TWW at an approved TWW facility. A list of currently approved TWW facilities is available at:

http://www.dtsc.ca.gov/HazardousWaste/upload/lanfillapr11pdated1.pdf

Dispose of TWW within:

1. 90 days of generation if stored on blocks
2. 180 days of generation if stored on a containment surface or pad
3. 1 year of generation if stored in a water-resistant container or within 90 days after the container is full, whichever is shorter
4. 1 year of generation if storing in a storage building as defined in 22 CA Code of Regs, Div. 4.5, Chp. 34, § 67386.6(a)(2)(C)

14-11.09D Payment

Not Used

Replace section 14-11.11 with:

14-11.11 MANAGEMENT OF ASBESTOS CONTAINING MATERIALS

14-11.11A General

14-11.11A(1) Summary

Section 14-11.11 includes specifications for surveying and sampling or, removal, and disposal of asbestos-containing material (ACM). Friable ACM generated as part of this work is Department-generated hazardous waste under 14-11.02F.

14-11.11A(2) Definitions

asbestos: Includes chrysotile, amosite, crocidolite, tremolite, anthrophyllite, actinolite and any of these minerals that has been chemically treated and/or altered.

asbestos-containing material (ACM): Any building material, including asbestos cement pipe containing commercial asbestos in an amount greater than 1% by weight, area, or count.

certified asbestos consultant (CAC): An asbestos consultant certified by Cal/OSHA under 8 CA Code of Regs § 341.15 and 1529.

regulated asbestos-containing material (RACM): any material containing more than one percent friable asbestos as determined using Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Includes Category I non-friable ACM which has become friable, or will be subjected to sanding, grinding, cutting or abrading; or Category II non-friable ACM which may become or has become friable.

friable ACM: Any material containing more than 1 percent asbestos by area that hand pressure can crumble, pulverize or reduce to powder when dry".

non-friable ACM: Asbestos fibers are tightly bound into the matrix of the material and should not become an airborne hazard as long as the material remains intact and undamaged, and is not sawed, sanded, drilled or otherwise abraded during removal (Asbestos Hazard Emergency Response Act (AHERA).

14-11.11A(3) Asbestos Survey Results

Asbestos was detected at _____ in _____ Portions of the survey report are included in the “Information Handout.” The complete report entitled “_____” is available at the Department of Transportation, Construction Office, located at _____

14-11.11A(4) Submittals

14-11.11A(4)(a) Asbestos Surveying Work Plan for Sampling

Before starting removal or renovation, submit an asbestos inspection work plan that establishes the procedures to comply with requirements for asbestos surveying and sampling. The plan must be prepared and signed by a CAC and include:

1. Sampling procedures. ACM sampling methods must meet USEPA, SW-846, "Test Methods for Evaluating Solid Waste," Volume II: Field Manual, Physical/Chemical, Chapter Nine Section 9.1. Include the name of the laboratory that will perform the asbestos analyses and a copy of the laboratory’s Environmental Laboratory Accreditation Program (ELAP) certification.
2. Analytical method for analyses. Samples must be analyzed for asbestos according to Analytical Method 600/R-93-116 under 40 CFR Part 763 Subpart F, Appendix A (Polarized Light Microscopy).
3. Sample handling and preservation. Transport samples under chain of custody to the laboratory within 24 hours of sampling. The laboratory must test the samples within 48 hours. Submit laboratory results as soon as they are available. Supply a summary report of sampling protocols, photographs of the structures and of the locations where samples were taken, chain of custody, analysis and laboratory data sheets to the Engineer within 10 days of completion of sampling.

Under 40 CFR §61.145(a), thoroughly inspect regulated facility, including the concrete and any other suspect material is required before demolition or renovation. Do not start sampling and analysis work until the work plan is authorized by the Engineer. If the work plan is unacceptable, it will be returned to you

within 5 business days of the submittal for revision. Revise the plan within 5 business days and resubmit. The Engineer has 5 days to review and authorize or reject the revised plan from the date the revised plan is received. Sampling and analysis must comply with USEPA "Asbestos/NESHAP Regulated Asbestos Containing Materials Guidance."

Collect a minimum of 1 sample for each suspected ACM location. For pipes and other linear components of suspected ACM, collect samples sufficient to determine suspected asbestos content of the material. Sample all exposed suspected ACM on the structure. If bridge concrete will be disturbed, sample concrete based on color, texture and the type of structure portion to be impacted (deck, railing, etc.) Sample suspected ACM encapsulated in concrete when exposed during demolition.

14-11.11A(4)(b) Asbestos Sampling and Analysis Report

Submit a report on the asbestos inspection within 10 days after completion of the inspection. The report must include:

1. Sampling protocols
2. Photographs of the structures and of the locations where samples were taken
3 Assessment of condition of ACM (friable/non-friable)
4. Quantification of ACM
5. Recommendations for removal and disposal of confirmed ACM.
6. Chain of custody
7. Laboratory data
8. Documentation that report was prepared by Cal-OSHA Certified CAC.

Allow 5 business days for the Engineer to review and authorize the report. Make any changes requested for acceptance within business 5 days. Submit 2 copies of the final report.

14-11.11A(4)(c) Air Quality Management District (AQMD) or Air Pollution Control District (APCD) Notification of Demolition

Submit a copy of the NESHAP notification form and attachments to Engineer, required under section 14-9.02, before submittal to the AQMD or APCD under 40 CFR §61.145(b).

14-11.11A(4)(d) Asbestos Compliance Plan

Prepare an Asbestos Compliance Plan (ACP) to prevent or minimize exposure to asbestos during removal work. The ACP must be signed by a CIH before submission to the Engineer for review and authorization. Submit the ACP to the Engineer at least 15 business days before beginning removal work in areas containing or suspected to contain asbestos. The ACP must contain:

1. Identification of key personnel for the project
2. Scope of work and equipment that will be used
3. Job hazard analysis for work assignments
4. Summary of risk assessment
5. Personal protective equipment
6. Delineation of work zones on-site
7. Decontamination procedures
8. General safe work practices
9. Security measures
10. Emergency response plans
11. Worker training
12. Certification of completion of safety training for all trained personnel before starting work in areas containing or suspected to contain asbestos.

14-11.11A(4)(e) Removal Work Plan

Prepare a work plan for the removal, storage, transportation and disposal of ACM. Allow up to 10 days for Engineer to review and authorize.

The work plan must include:

1. Installing asbestos warning signs at perimeters of abatement work areas

2. Summary of methods and techniques for handling, packaging, labeling, storing, transporting and disposing of waste materials
3. Wetting asbestos materials with sprayers
4. Containing large volumes of asbestos materials in disposal bins for temporary storage until removed from the site
5. Providing manifests for disposal upon completion for the Engineer to sign
6. Providing transporters registered to transport hazardous waste in the state of California under the Health and Safety Code Ch 6.5, Div 20 and 22 CA Code of Regs, Div 4.5
7. Disposing of asbestos materials at an appropriately permitted disposal facility in California
8. Compliance with federal, state, and local requirements for asbestos work, transport, and disposal

14-11.11A(4)(f) ACM Removal Report

Submit ACM Removal Report to Engineer and APCD or AQMD within 30 days after ACM is removed from job site. ACM Removal Report must address all items in work plan.

14-11.11A(5) Quality Control and Assurance

14-11.11A(5)(a) Qualifications

The person in charge of asbestos removal and abatement planning must be a CAC.

The CAC in charge of asbestos removal must be registered under Labor Code § 6501.5 and certified under Bus & Prof Code § 7058.6.

Laboratories used to perform asbestos analysis must be certified by the CDPH Environmental Laboratory Accreditation Program for all analyses to be performed.

14-11.11A(5)(b) Regulatory Requirements

Codes which govern removal and disposal of materials containing asbestos include:

1. CA Health and Safety Code, Division 20, Chapter 6.5, Hazardous Waste Control
2. 8 CA Code of Regs, General Industry Safety Order 5208 Asbestos
3. 8 CA Code of Reg, § 1529 and 341
4. 22 CA Code of Regs, Division 4.5
5. Cal/OSHA, Part 26 (amended), of 29 CFR
6. 40 CFR, Part 61, subpart M

14-11.11B Materials

Not used

14-11.11C Construction

14-11.11C(1) General

Notify the APCD or AQMD of changes in work locations or conditions.

Before starting work in areas containing or suspected to contain asbestos, provide safety training to State personnel who may enter the work area that meets the requirements of 8 CA Code of Regs § 1529.

Provide training, personal protective equipment, and medical surveillance required by the Asbestos Compliance Plan to __ State personnel.

14-11.11C(2) Unanticipated Suspected ACM discovered During Demolition or Excavation

If unanticipated ACM is discovered during demolition, stop portion of work in ACM area and notify the Engineer. ACM will be removed by the State.

Notify the APCD or the AQMD of changes to removal or demolition plans, including discovery of ACM during demolition, within 2 business days of the change.

Removal and disposal of ACM not identified in the ACM survey prior to demolition or renovation is change order work.

14-11.11C(3) Removal

Comply with 8 CA Code of Regs § 1529 and § 341. Remove friable ACM using the wetting method. Remove and handle all non-friable ACM to prevent breakage. The removal of ACM encased in concrete or other similar structural material is not required before demolition, but the ACM must be adequately wetted whenever exposed during demolition. Prevent visible emissions from all ACM removal activities.

Mark all regulated work areas with the following or equivalent warning:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY

14-11.11C(4) Packaging

Comply with 22 CA Code of Regs, Div 4.5, Chapter 12, Article 3 requirements for packaging and labeling removed ACM. Place removed ACM in approved containers (double ply, 0.06-inch minimum thickness, plastic bags) with caution labels affixed to bags. Caution labels must have conspicuous, legible lettering, that spells out the following or equivalent warning:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

Place removed materials containing asbestos directly into a covered, lockable roll off or drop box that has the same caution label affixed on all sides.

If hazardous waste is removed, submit a copy of the hazardous waste manifest for each shipment of hazardous waste. The Engineer will sign all manifests as the generator.

14-11.11C(5) Transportation

All haulers of friable ACM must have current registration with DTSC for transporting hazardous waste and must have a U.S. Environmental Protection Agency Identification Number (U.S. EPA I.D. Number). All vehicles used to transport hazardous waste material must carry a valid registration during transport. Transport non-friable (non-hazardous waste) ACM to the disposal facility with a shipping document or waste shipment record.

14-11.11C(6) Disposal

Dispose of friable and non-friable waste containing asbestos at a disposal facility permitted to accept the waste and that meets all the requirements specified by federal, state and local regulations. Notify the proper authorities at the disposal site in advance of delivery of ACM.

Submit documentation from disposal facility indicating proper disposal of all hazardous ACM waste and nonhazardous ACM waste within 5 days of transporting the waste from the job site.

14-11.11D Payment

Not Used