

**AERIALY DEPOSITED LEAD (ADL)
INVESTIGATION REPORT**
Barton Road Interchange with the I-215 Freeway
San Bernardino County, California

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1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION AND OBJECTIVES

At the request of AECOM/LAN Engineering Corporation (LAN), Stantec Consulting Corporation (Stantec) conducted an Aerially Deposited Lead (ADL) survey to support proposed realignment and widening of the existing Barton Road Bridge, realignment of the on- and off-ramps, and realignment of adjacent roads to improve the traffic flow in the vicinity of the bridge at the Barton Road Interchange with the I-215 freeway, San Bernardino County, California (Figure 1). All survey work was limited to the existing right-of-way along the unpaved shoulders and medians of I-215/Barton Road Interchange.

The objective of this investigation was to evaluate lead concentrations in the subsurface soil profile within the construction zone and to make recommendations for any special handling or disposal of lead impacted soil. The ADL survey was performed in accordance with Caltrans, District 8 protocol (described in Section 2.1) for similar projects in the area.

1.2 SCOPE-OF-WORK

The scope of the ADL survey consisted of the following general elements:

- Pre-field project assessment and Health and Safety Plan (HASP) development
- Soil sampling
- Laboratory analysis
- Data evaluation and report development

Each of these is discussed in detail in the following subsections.

1.2.1 Pre-Field Activities

Site plans provided by LAN were reviewed and compared to actual field conditions during a drive-by site reconnaissance. From this preliminary site evaluation, and discussions with Ms. Rosanna Roa, Caltrans District 8 Environmental Manager, regarding appropriate horizontal and vertical sampling intervals, potential sample locations were designated on the plans for use by field personnel. In addition, a site-specific HASP was developed in accordance with California Occupational Safety and Health Administration (Cal OSHA) requirements to guide field activities.

1.2.2 Field Sampling Activities

Field sampling activities included the following general tasks:

- Twenty-two (22) shallow hand-auger borings (B-1 through B-22) were advanced along accessible portions of the existing right-of-way along the outside shoulders and medians to a maximum depth of three feet below ground surface (bgs).
- Soil samples (66 total) were collected from each boring at depths of 0.5-1.0, 1.0-1.5, and 2.5-3.0 feet bgs for ADL analysis.

1.2.3 Laboratory Analyses

Soil samples were submitted under chain-of-custody to Pat-Chem Laboratories (Pat-Chem). Pat-Chem is certified by the California Environmental Laboratory Accreditation Program (ELAP) to perform the laboratory tests required in this task order. Selected samples were analyzed for the following analytes:

- Total lead by EPA test method 6010B
- Soluble lead by the California Waste Extraction Test (Cal WET – Citric and Cal WET – DI; EPA method 3010/6010B)
- Toxicity Characteristic Leaching Procedure (TCLP) by EPA extraction method 1311
- pH by EPA test method 9045C

1.2.4 Report Preparation

This report presents the methodology, findings, and recommendations of the ADL survey and investigation. Also included with this are laboratory test results, statistical data evaluations, and recommendations for lead-contaminated soil management during construction. This report was prepared in accordance with the work plan and proposal dated February 26, 2009.

1.3 PREVIOUS SITE INVESTIGATIONS

Additional information was not provided relative to previous environmental studies within the study area.

2.0 ADL SURVEY METHODOLOGY

The field methods used during this sampling and site investigation project were consistent with the work plan submitted to LAN dated February 26, 2009. The proposed borings were located at the Barton Road interchange with the I-215 freeway in San Bernardino County, California. All of the proposed sampling locations were accessible and no weather related restrictions were encountered. As per instruction from Caltrans District 8 Environmental Manager, Rosanna Roa, borings were spaced at approximately 300-foot intervals in order to generate a representative data set along the Barton Road Interchange. As per Caltrans District 8 protocol for similar projects, no samples were collected below areas currently covered by pavement or within 6 feet of the pavement. In addition, no borings were advanced outside of the existing right-of-way or in existing paved areas.

2.1 FIELD INVESTIGATIONS

Twenty-two (22) hand-auger borings for ADL analysis were advanced along accessible portions at the Barton Road interchange with the I-215 freeway (66 total samples). Soil samples were collected at depths ranging from 0.5 to 3.0 feet bgs. The sample depths represent the top depth of a six-inch thick sample collected using a hand-auger. Three soil samples were collected from 22 borings totaling 66 soil samples. Soil samples were discharged directly from the hand-auger bailer into a plastic zipper lock bag and manually homogenized in the field to minimize sample heterogeneity. Each sample was labeled with a specific sample I.D., boring I.D., project I.D., sample date, and sample time. Samples were also recorded on chain-of-custody forms and delivered to an environmental laboratory for analysis in accordance with the methods described in Section 1.2.3.

Prior to sampling at each sample interval, sample equipment was decontaminated in non-phosphate detergent solution and double rinsed with distilled water. Excess soil cuttings were replaced in the borehole.

Following Caltrans District 8 protocol, accessible areas are defined as those areas that allow work vehicles and personnel to work safely at distances no closer than six feet from paved portions of the roadway. No samples were collected from areas that would have required workers to work within six feet of paved shoulders. None of the proposed sample locations fell within inaccessible areas of the proposed construction zones. All sample locations were plotted on an aerial field map with a unique boring identification (I.D.) number to represent each borehole. The sample locations are indicated on Figure 2.

2.2 LABORATORY ANALYSIS

Soil samples were submitted under chain-of-custody to Pat-Chem. Each of the samples was initially analyzed by EPA test method 6010B for total lead. The lab was directed to perform the following additional analyses based on the detected total lead concentrations:

- Cal WET-Citric soluble lead analysis on all samples exhibiting total lead concentrations greater than 25 milligrams per kilogram (mg/kg). Cal WET-Citric is used to assess soluble lead concentrations with respect to California Soluble Threshold Limit Concentrations (STLC).
- TCLP soluble lead analysis on all Cal WET-Citric samples exhibiting soluble lead concentrations greater than 5.0 milligrams per liter (mg/L).
- pH on all TCLP analyzed samples.
- Cal WET-DI analysis in the following order of preference:
 - TCLP samples where the 95 percent upper confidence level of the mean of the TCLP data is greater than 0.5 mg/L; or
 - Ten percent of the sample population biasing the Cal WET-DI analyses to samples that required Cal WET-Citric analysis; or
 - Ten percent of the sample population biasing the Cal WET-DI analyses to samples that exhibited the highest concentrations of total lead.

These analyses were performed for statistical evaluation of data against state and federal hazardous waste limits and with the conditions of Caltrans' variance.

3.0 INVESTIGATIVE RESULTS

3.1 SUBSURFACE CONDITIONS

The soils encountered during sampling were generally fine to course, light brown to brown, silty to clayey sands with fine to course gravel. The soils were relatively dry in the upper half foot to slightly moist in the bottom of the borings at three feet. Groundwater was not encountered in any of the boreholes and not expected to be present in the upper 10 feet.

3.2 ANALYTICAL RESULTS

A summary of the analytical results are presented in Table 1 and statistical data transformations are tabulated in Table 2. Copies of the laboratory reports and chain-of-custody forms are included in Appendix A.

3.2.1 Total Lead

Sixty-six (66) soil samples were analyzed for total lead by EPA test method 6010B. Total lead concentrations ranged from less than 1.0 mg/kg (laboratory reporting limit) to 340 mg/kg with a mean concentration of 19 mg/kg (see Table 1).

Total lead concentrations did not exceed the TTLC of 1,000 mg/kg in any of the samples.

3.2.2 Soluble Lead (Cal WET- Citric)

Soil samples with total lead concentrations in excess of 25 mg/kg were analyzed for soluble lead using the Cal WET soluble lead analysis. Soluble lead concentrations exceeded the STLC of 5 mg/L in two (2) of the 11 soil samples submitted for soluble lead analysis. Soluble lead concentrations ranged from less than 0.20 (laboratory reporting limit) to 17 mg/L with a mean concentration of 1.4 mg/L (see Table 1).

3.2.3 Toxicity Characteristic Leaching Procedure (TCLP)

Soil samples with STLC lead concentrations in excess of 5 mg/L were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) analysis for lead. TCLP concentrations for lead ranged from 0.02 to 0.14 mg/L (see Table 1).

TCLP lead concentrations did not exceed 5 mg/L in either of the two (2) soil samples submitted for analysis.

3.2.4 Soluble Lead (Cal WET- DI)

The Caltrans variance allows for reuse of materials exceeding the STLC and TCLP for lead if the soluble concentrations do not exceed 0.5 mg/L using a less rigorous extraction test that incorporates distilled water as the solvent rather than the Cal WET-citric acid or TCLP acetic acid extractant. This method is often identified as the DHS modified Cal WET-DI test.

Six (6) soil samples were selected for soluble lead analysis by the Cal WET – DI. Soluble lead concentrations were less than 0.20 mg/L (the laboratory reporting limit) in all samples (see Table 1).

3.2.5 pH Results

Soil samples with STLC lead concentrations in excess of 5 mg/L were analyzed for pH using EPA test method 9045C. Analytical data obtained from the two (2) selected soil samples submitted for analysis indicated pH levels of 7.4 and 8.9.

3.3 DATA VALIDATION

Prior to submitting soil samples to the laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness. The laboratory reports were crosschecked with the chain-of-custody forms to confirm accurate transposing of sample information. Laboratory quality assurance and quality control (QA/QC) data (method blanks, laboratory control samples and duplicates, matrix spike samples and duplicates) were also reviewed for compliance with QA/QC objectives. Based on this validation process, the data contained herein are adequate for the purposes of this study. Copies of the laboratory reports and chain-of-custody forms are included as Appendix A.

4.0 STATISTICAL DATA EVALUATION

4.1 CORRELATION BETWEEN TOTAL LEAD AND SOLUBLE LEAD

The correlation coefficient between total lead and Cal WET-Citric soluble lead was calculated in accordance with the methodology presented in Section B 3.2.2.15.2 of Caltrans Contract 08A1542 (see Table 3 and refer to Appendix B). The data showed excellent correlation with a correlation coefficient of 1.0. Caltrans generally considers a correlation coefficient of 0.8 or greater as showing good correlation.

4.2 LINEAR REGRESSION ANALYSIS

The relationship between total lead and Cal WET-Citric soluble lead was evaluated in accordance with Caltrans Contract 08A1542 Section B 3.2.2.15.2. Total lead and soluble lead are bivariate data exhibiting a linear relationship. Table 3 and Figure 4a & 4b show the relationship between total and Cal WET-Citric soluble lead results for this project. Linear regression was used to develop a best-fit line and mathematical formula for the relationship between total lead (TL) and Cal WET-Citric soluble lead (SL) concentrations:

$$TL [mg/kg] = 19.6 (SL [mg/L]) + 11.5, \text{ or}$$

Solving for soluble lead (Cal WET) yields the following:

$$SL [mg/L] = (TL [mg/kg] - 11.5) / 19.6$$

This formula will be used in subsequent statistical evaluations to determine the Cal WET-Citric soluble lead concentration from statistically derived total lead upper confidence limits (UCLs) for various soil layers considered in Section 4.3.

4.3 STATISTICAL DATA EVALUATION

The analytical results were evaluated statistically using Caltrans' protocol utilizing the US EPA's Pro UCL program following the methods described in Section B 3.2.15 of Exhibit A, Caltrans Contract Document Number 08A1542.

Statistical tests were performed on each data set to evaluate whether the total lead data are normally or lognormally distributed. If lognormally distributed, the data were transformed prior to performing any other statistical evaluations. Statistical parameters, such as the mean, standard deviation, and upper confidence level of the mean were calculated for various layers and scenarios. The total lead 80 percent UCL (UCL_{80}) and the 95 percent UCL (UCL_{95}) of the mean were calculated to support decision making with respect to off site disposal and on site re-use as described in Section B 3.2.4.4 of Caltrans Contract 08A1542.

- UCL_{80} : The UCL_{80} was calculated in accordance with requirements promulgated in U.S. Environmental Protection Agency (U.S. EPA) Guidance document SW-846 to characterize the soil for 1) potential off site disposal as nonhazardous, California hazardous or Resource Conservation and Recovery Act (RCRA) hazardous waste, and 2) to assess whether the conditions of the Caltrans Variance should be invoked for on-site reuse.

- **UCL₉₅:** The UCL₉₅ is calculated to support decision making with respect to release of surplus soil material to the possession of the Contractor.

Statistical evaluations were performed using the U.S. EPA statistical program, ProUCL, version 4.00.01. One-half the reporting limit was used for all sample results reported below the reporting limit (nondetect). If the data exhibited normal distribution, Student's-t method was used to determine the UCL. The standard Bootstrap Method was used to evaluate the UCL as required in Caltrans Contract 088A0981 Section B 3.2.2.15.1 for all nonparametric populations.

The histograms for the raw data and the transformed data for all samples are shown on Figures 4a, 4b, 5a, and 5b. From these histograms and based on statistical tests, the total lead and Cal WET-Citric soluble lead data are non-parametric and lognormally distributed, respectively.

To assist in future soil handling and disposition decision-making, statistical evaluations were performed on the below data populations. In each case, the total-lead UCLs were statistically derived from each sample population. The soluble lead (Cal WET-Citric) UCLs were then calculated using the linear regression formulas presented in Section 4.2.

- *Entire Data Set*—includes all of the total lead data (66 samples) from the surface to approximately three feet bgs. Statistical data for the entire data set are tabulated in Tables 4 and 5 and shown on the block diagrams of Figure 6. The mean total lead concentration for the data set is 19 mg/kg with a standard deviation of 46 mg/kg. The calculated UCL₈₀ and UCL₉₅ are 24 and 29 mg/kg, respectively. The corresponding UCL₈₀ and UCL₉₅ Cal WET-Citric soluble lead concentrations using linear regression analysis are 0.64 and 0.89 mg/L, respectively.
- *Depth Specific Layer*—data for each depth interval were evaluated as three separate and distinct populations. Under these scenarios, all data were included in the population of each depth interval. The results are presented in Table 5 and shown on the block diagrams of Figure 6.
 - 1 foot—total lead UCL₈₀ and UCL₉₅ were calculated at 47 and 58 mg/kg, respectively; with a corresponding Cal WET-Citric soluble lead UCL₈₀ and UCL₉₅ of 1.8 and 2.4 mg/L, respectively.
 - 2 feet—total lead UCL₈₀ and UCL₉₅ were calculated at 22 and 28 mg/kg, respectively; with a corresponding Cal WET-Citric soluble lead UCL₈₀ and UCL₉₅ of 0.54 mg/L and 0.84 mg/L, respectively.
 - 3 feet—total lead UCL₈₀ and UCL₉₅ were calculated at 7.6 and 8.6 mg/kg, respectively; with a corresponding Cal WET-Citric soluble lead UCL₈₀ and UCL₉₅ of less than 0.051 mg/L for both values.
- *Depth Combinations*—three layers were combined into two distinct populations. The two combinations evaluated are indicated below and shown on Table 5 and the block diagrams of Figure 6.
 - 1 and 2 feet—total lead UCL₈₀ and UCL₉₅ were calculated at 32 and 39 mg/kg, respectively; with a corresponding Cal WET-Citric soluble lead UCL₈₀ and UCL₉₅ of 1.0 and 1.4 mg/L, respectively.

- 2 and 3 feet—total lead UCL₈₀ and UCL₉₅ were calculated at 14 and 17 mg/kg, respectively; with a corresponding Cal WET-Citric soluble lead UCL₈₀ and UCL₉₅ of 0.13 and 0.28 mg/L, respectively.

5.0 CONCLUSIONS

Statistical evaluations were performed to evaluate appropriate handling and disposition of ADL in accordance with the following federal and state statutory limits:

TCLP Lead: 5 mg/L (RCRA hazardous waste),
STLC Lead: 5 mg/L (California hazardous waste),
TTLC Lead: 1,000 mg/kg (California hazardous waste), and

In accordance with the conditions of Caltrans Variance (No. 00-H-VAR-04), Modification 2 (September 12, 2003) as stated below:

Section 9.a.1: Lead contaminated soil containing 0.5 mg/L or less soluble lead when extracted by Cal WET-DI and 1,411 mg/kg or less total lead may be placed in the same Caltrans corridor provided that it is buried a minimum of 5 feet (1.5 meters) above the maximum water table elevation and covered with one foot (0.3 meters) of nonhazardous soil. These materials may be used on-site as Type Y-1 Caltrans fill material.

Section 9.a.2: Lead contaminated soil containing less than 50 mg/L soluble lead when extracted by Cal WET-DI and 3,397 mg/kg or less total lead may be placed in the same Caltrans corridor provided that it is buried a minimum of 5 feet above the maximum water table elevation and covered with pavement structure. These materials may be used on-site as Type Y-2 fill material.

In consideration of the data and statistical evaluations presented in previous sections, the following conclusions are developed.

- ADL is present in near surface soils within the proposed construction zone.
- As shown on Figures 4a, 4b, 5a, and 5b the histograms for total lead and Cal WET-Citric soluble lead demonstrate the data are non-parametric and lognormally distributed, respectively.
- Total lead concentrations are well below statutory threshold levels for hazardous waste (TTLC).
- Cal WET-Citric soluble lead levels did not exceed the California STLC for the UCL₉₅.
- TCLP soluble lead levels did not exceed federal hazardous waste levels based on toxicity characteristics.
- Soluble lead was not detected at concentrations above the 0.5 mg/L Caltrans variance criteria when extracted using the DHS Modified Cal WET-DI method.
- Considering the entire data set as a whole (all 66 data points), the UCL₈₀ and UCL₉₅ for total lead does not exceed regulatory thresholds and does not trigger the Caltrans variance.
- Considering the entire data set in depth discrete layers, the UCL₈₀ and UCL₉₅ for total lead does not exceed regulatory thresholds and does not trigger the Caltrans Variance.

6.0 RECOMMENDATIONS

ADL is present at the site. Based on the findings and conclusions presented herein, the following is recommended:

1. A site-specific lead compliance plan should be developed to address health and safety of construction workers.
2. In consideration of total lead concentrations, soil may be managed as non-hazardous or reused onsite without restrictions.
3. Surplus soil within the study zone may be released to the Contractor for disposition.

7.0 LIST OF PREPARERS

This ADL survey report has been prepared under the direction of the following environmental professionals.

Preparers

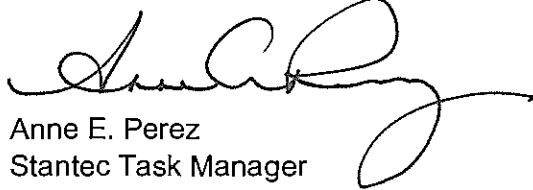
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TABLES

Table 1
Summary of Soil Analytical Test Results
Barton Road Interchange, I-215, San Bernardino County, California

Sample ID	Total Lead ⁽¹⁾ (mg/kg)	Soluble Lead ⁽¹⁾ Cal WET-Citric (mg/L)	Soluble Lead ⁽¹⁾ Cal WET-DI (mg/L)	Soluble Lead ⁽¹⁾ TCLP (mg/L)	pH ⁽²⁾
B-1-0.5	83	2.9	--	--	--
B-1-1.5	8.6	--	--	--	--
B-1-2.5	8.2	--	--	--	--
B-2-0.5	18	--	--	--	--
B-2-1.5	8.3	--	--	--	--
B-2-2.5	3.2	--	--	--	--
B-3-0.5	17	--	--	--	--
B-3-1.5	4.3	--	--	--	--
B-3-2.5	3.8	--	--	--	--
B-4-0.5	10	--	--	--	--
B-4-1.5	11	--	--	--	--
B-4-2.5	3.5	--	--	--	--
B-5-0.5	20	--	--	--	--
B-5-1.5	170	7.7	ND (<0.20)	0.02	8.9
B-5-2.5	6.2	--	--	--	--
B-6-0.5	5.8	--	--	--	--
B-6-1.5	8.4	--	--	--	--
B-6-2.5	6.4	--	--	--	--
B-7-0.5	10	--	--	--	--
B-7-1.5	2.9	--	--	--	--
B-7-2.5	7.5	--	--	--	--
B-8-0.5	26	0.84	ND (<0.20)	--	--
B-8-1.5	9.4	--	--	--	--
B-8-2.5	4.6	--	--	--	--
B-9-0.5	340	17	ND (<0.20)	0.14	7.4
B-9-1.5	25	0.54	--	--	--
B-9-2.5	2.5	--	--	--	--
B-10-0.5	6.4	--	--	--	--
B-10-1.5	4.3	--	--	--	--
B-10-2.5	5.8	--	--	--	--
B-11-0.5	12	--	--	--	--
B-11-1.5	3.8	--	--	--	--
B-11-2.5	4.5	--	--	--	--
B-12-0.5	37	1.4	ND (<0.20)	--	--
B-12-1.5	6.0	--	--	--	--
B-12-2.5	6.0	--	--	--	--
B-13-0.5	39	--	--	--	--
B-13-1.5	3.1	--	--	--	--
B-13-2.5	7.2	--	--	--	--
B-14-0.5	1.4	--	--	--	--
B-14-1.5	ND (<1.0)	--	--	--	--
B-14-2.5	1.8	--	--	--	--
B-15-0.5	22	--	--	--	--
B-15-1.5	3.9	--	--	--	--
B-15-2.5	26	ND (<0.20)	--	--	--

Table 1
Summary of Soil Analytical Test Results
Barton Road Interchange, I-215, San Bernardino County, California

Sample ID	Total Lead ⁽¹⁾ (mg/kg)	Soluble Lead ⁽¹⁾ Cal WET-Citric (mg/L)	Soluble Lead ⁽¹⁾ Cal WET-DI (mg/L)	Soluble Lead ⁽¹⁾ TCLP (mg/L)	pH ⁽²⁾
B-16-0.5	5.8	--	--	--	--
B-16-1.5	4.2	--	--	--	--
B-16-2.5	4.5	--	--	--	--
B-17-0.5	3.6	--	--	--	--
B-17-1.5	5.6	--	--	--	--
B-17-2.5	7.9	--	--	--	--
B-18-0.5	25	0.93	ND (<0.20)	--	--
B-18-1.5	27	0.93	--	--	--
B-18-2.5	22	--	--	--	--
B-19-0.5	26	0.69	--	--	--
B-19-1.5	6.2	--	--	--	--
B-19-2.5	3.9	--	--	--	--
B-20-0.5	16	--	--	--	--
B-20-1.5	9.1	--	--	--	--
B-20-2.5	3.9	--	--	--	--
B-21-0.5	38	1.9	ND (<0.20)	--	--
B-21-1.5	24	--	--	--	--
B-21-2.5	1.0	--	--	--	--
B-22-0.5	6.8	--	--	--	--
B-22-1.5	3.2	--	--	--	--
B-22-2.5	3.5	--	--	--	--

Notes:

(1) Total Lead, Soluble Threshold Limit Concentration (STLC or "Soluble Lead"), and Toxicity Characteristic Leaching Procedure (TCLP) analysis done using EPA method 6010B.

(2) pH determined with EPA method 9045B.

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

ND = not detected, concentration less than reporting limit

Table 2
Frequency Distribution Analysis
Barton Road Interchange, I-215, San Bernardino County, California

Sample ID	Total Lead ⁽¹⁾ (mg/kg)	Total Lead In(x) Transformed	Soluble Lead ⁽¹⁾ Cal WET-Citric (mg/L)	Cal WET-Citric In(x) Transformed
B-1-0.5	83	4.42	2.9	1.06
B-1-1.5	8.6	2.15	--	--
B-1-2.5	8.2	2.10	--	--
B-2-0.5	18	2.89	--	--
B-2-1.5	8.3	2.12	--	--
B-2-2.5	3.2	1.16	--	--
B-3-0.5	17	2.83	--	--
B-3-1.5	4.3	1.46	--	--
B-3-2.5	3.8	1.34	--	--
B-4-0.5	10	2.30	--	--
B-4-1.5	11	2.40	--	--
B-4-2.5	3.5	1.25	--	--
B-5-0.5	20	3.00	--	--
B-5-1.5	170	5.14	7.7	2.04
B-5-2.5	6.2	1.82	--	--
B-6-0.5	5.8	1.76	--	--
B-6-1.5	8.4	2.13	--	--
B-6-2.5	6.4	1.86	--	--
B-7-0.5	10	2.30	--	--
B-7-1.5	2.9	1.06	--	--
B-7-2.5	7.5	2.01	--	--
B-8-0.5	26	3.26	0.84	-0.17
B-8-1.5	9.4	2.24	--	--
B-8-2.5	4.6	1.53	--	--
B-9-0.5	340	5.83	17	2.83
B-9-1.5	25	3.22	0.54	-0.62
B-9-2.5	2.5	0.92	--	--
B-10-0.5	6.4	1.86	--	--
B-10-1.5	4.3	1.46	--	--
B-10-2.5	5.8	1.76	--	--
B-11-0.5	12	2.48	--	--
B-11-1.5	3.8	1.34	--	--
B-11-2.5	4.5	1.50	--	--
B-12-0.5	37	3.61	1.4	0.34
B-12-1.5	6.0	1.79	--	--
B-12-2.5	6.0	1.79	--	--
B-13-0.5	39	3.66	--	--
B-13-1.5	3.1	1.13	--	--
B-13-2.5	7.2	1.97	--	--
B-14-0.5	1.4	0.34	--	--
B-14-1.5	0.50	-0.69	--	--
B-14-2.5	1.8	0.59	--	--
B-15-0.5	22	3.09	--	--
B-15-1.5	3.9	1.36	--	--
B-15-2.5	26	3.26	0.10	-2.30
B-16-0.5	5.8	1.76	--	--
B-16-1.5	4.2	1.44	--	--

Table 2
Frequency Distribution Analysis
Barton Road Interchange, I-215, San Bernardino County, California

Sample ID	Total Lead ⁽¹⁾ (mg/kg)	Total Lead In(x) Transformed	Soluble Lead ⁽¹⁾ Cal WET-Citric (mg/L)	Cal WET-Citric In(x) Transformed
B-16-2.5	4.5	1.50	--	--
B-17-0.5	3.6	1.28	--	--
B-17-1.5	5.6	1.72	--	--
B-17-2.5	7.9	2.07	--	--
B-18-0.5	25	3.22	0.93	-0.07
B-18-1.5	27	3.30	0.93	-0.07
B-18-2.5	22	3.09	--	--
B-19-0.5	26	3.26	0.69	-0.37
B-19-1.5	6.2	1.82	--	--
B-19-2.5	3.9	1.36	--	--
B-20-0.5	16	2.77	--	--
B-20-1.5	9.1	2.21	--	--
B-20-2.5	3.9	1.36	--	--
B-21-0.5	38	3.64	1.9	0.64
B-21-1.5	24	3.18	--	--
B-21-2.5	1.0	0.00	--	--
B-22-0.5	6.8	1.92	--	--
B-22-1.5	3.2	1.16	--	--
B-22-2.5	3.5	1.25	--	--
Min. Value	0.50	-0.69	0.10	-2.30
Max. Value	340	5.83	17	2.83
Mean	19	2.12	3.2	0.30
Median	6.6	1.89	0.93	-0.07
St. Dev.	46	1.11	5.0	1.37
Variance	2,200	1.24	25	1.87

Notes:

For statistical analysis, laboratory analytical results less than the reporting limit are represented as one-half the reporting limit as shown in blue font.

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

STLC = Soluble Threshold Limit Concentration

Table 3
Linear Regression Analysis
Barton Road Interchange, I-215, San Bernardino County, California

Sample ID	Total Lead (mg/kg) (Y)	Soluble Lead STLC/WET- Citric (mg/L) (X)	Product of Total Lead and Soluble Lead (X) x (Y)
B-1-0.5	83	2.9	241
B-5-1.5	170	7.7	1,309
B-8-0.5	26	0.84	22
B-9-0.5	340	17.0	5,780
B-9-1.5	25	0.5	14
B-12-0.5	37	1.4	52
B-18-0.5	25	0.93	23
B-18-1.5	27	0.93	25
B-19-0.5	26	0.7	18
B-21-0.5	38	1.9	72
Mean	80	3.5	756
Standard Deviation	102	5.2	--

Number of Samples	10
Calculated r Value ⁽¹⁾	1.00
r²	1.00
Slope (m) ⁽²⁾	19.6
Intercept (b) ⁽³⁾	11.5
y=mx+b	y=19.6x+ 11.5
	x=(y-11.5)/19.6

Notes:

(1) $r = \frac{\{[(\text{average of the product of Total Lead and Soluble Lead}) - ((\text{Soluble Lead average}) \times (\text{Total Lead average}))]\}}{[(\text{standard deviation of Soluble Lead}) \times (\text{standard deviation of Total Lead})]} \times (\text{number of samples} / (\text{number of samples} - 1))$

(2) Slope (m) = (r value) x (standard deviation of total lead) / (standard deviation of soluble lead)

(3) Intercept (b) = (average total lead concentration) - (slope (a)) x (average soluble lead level)

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

STLC = Soluble Threshold Limit Concentration

Table 4
Summary of Statistical Analysis Results
Total Lead and Soluble Lead by EPA Test Method 6010B
Barton Road Interchange, I-215, San Bernardino County, California

Parameter	Total Lead	Total Lead Corresponding to Soluble Lead (Cal WET-Citric) Data ⁽¹⁾	Soluble Lead Data (Cal WET-Citric)
Number of Data Points	66	10	11
Minimum Value	0.50 (mg/kg)	25 (mg/kg)	0.10 (mg/L)
Maximum Detected Value	340 (mg/kg)	340 (mg/kg)	17 (mg/L)
Mean	19 (mg/kg)	80 (mg/kg)	1.4 (mg/L)
Median	6.6 (mg/kg)	32 (mg/kg)	0.93 (mg/L)
Standard Deviation	46 (mg/kg)	100 (mg/kg)	3.9 (mg/L)
80% UCL	24 (mg/kg) (2)	110 (mg/kg) (2)	1.9 (mg/L) (2)
80% UCL Method ⁽³⁾	Standard Bootstrap (2)	Standard Bootstrap (2)	Student's-t (2)
95% UCL	29 (mg/kg) (2)	130 (mg/kg) (2)	2.9 (mg/L) (2)
95% UCL Method ⁽³⁾	Standard Bootstrap (2)	Standard Bootstrap (2)	Student's-t (2)
Are Data Normal?	No (2)	No (2)	No (2)
Are Data Lognormal?	No (2)	No (2)	Yes (2)

Notes:

(1) A soluble lead test (STLC) was not performed on every sample. As such, a subset of the total data set was created which only includes total lead samples that have both a total lead and soluble lead results.

(2) Taken from the Environmental Protection Agency's statistical program, ProUCL, Version 3.00.02. Student's-t UCL was used if the data were normal. The standard bootstrap UCL was used if the data were non-parametric.

(3) If lognormal, the data were transformed using the natural log function ($\ln[x]$) and the mean and UCLs determined using Student's-t. The mean and UCLs were then transformed using the inverse natural log function (e^x).

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

STLC = Soluble Threshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

Table 5
Statistical Analysis by Depth
Barton Road Interchange, I-215, San Bernardino County, California

Parameter	Total Lead ⁽¹⁾	Soluble Lead Cal WET-Citric ⁽²⁾
All Depths		
Number of Samples	66	
Minimum Result	0.50	
Maximum Result	340	
Mean	19	0.39
Standard Deviation	46	
Variance	2,200	
80% UCL	24	0.64
95% UCL	29	0.89
Distribution	non-parametric	
0.5 Foot Depth		
Number of Samples	22	
Minimum Result	1.4	
Maximum Result	340	
Mean	35	1.2
Standard Deviation	70	
Variance	5,000	
80% UCL	47	1.8
95% UCL	58	2.4
Distribution	non-parametric	
1.5 Foot Depth		
Number of Samples	22	
Minimum Result	0.50	
Maximum Result	170	
Mean	16	0.22
Standard Deviation	35	
Variance	1,200	
80% UCL	22	0.54
95% UCL	28	0.84
Distribution	non-parametric	
2.5 Foot Depth		
Number of Samples	22	
Minimum Result	1.0	
Maximum Result	26	
Mean	6.5	<0.051
Standard Deviation	6.0	
Variance	36	
80% UCL	7.6	<0.051
95% UCL	8.6	<0.051
Distribution	non-parametric	

Table 5
Statistical Analysis by Depth
Barton Road Interchange, I-215, San Bernardino County, California

Parameter	Total Lead ⁽¹⁾	Soluble Lead Cal WET-Citric ⁽²⁾
0.5 + 1.5 Foot Depths		
Number of Samples	44	
Minimum Result	0.50	
Maximum Result	340	
Mean	25	0.71
Standard Deviation	56	
Variance	3,100	
80% UCL	32	1.0
95% UCL	39	1.4
Distribution	non-parametric	
1.5 + 2.5 Foot Depths		
Number of Samples	44	
Minimum Result	0.50	
Maximum Result	170	
Mean	11	<0.051
Standard Deviation	25	
Variance	645	
80% UCL	14	0.13
95% UCL	17	0.28
Distribution	non-parametric	

Notes:

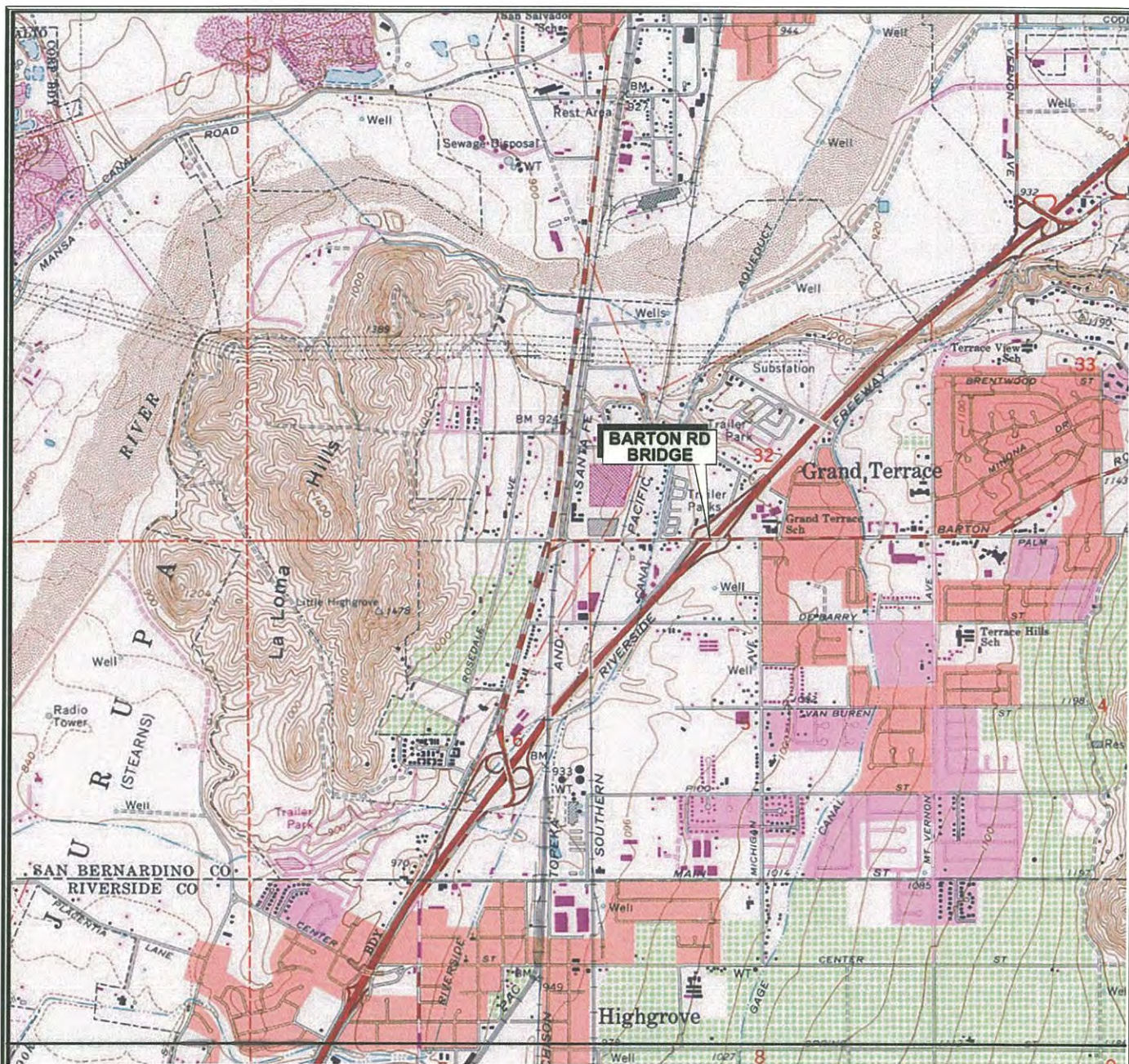
(1) Results for total lead are in milligrams per kilogram (mg/kg).

(2) Soluble Lead Threshold Concentration (STLC) results are in milligrams per liter (mg/L) and were calculated using linear regression analysis (Table 3).

Statistical results were obtained from the Environmental Protection Agency's statistical program, ProUCL, Version 3.00.02. Student's-t UCL was used if the data were normal. The standard bootstrap UCL was used if the data were non-parametric.

If lognormal, the data were transformed using the natural log function (ln[x]) and the mean and UCLs determined using Student's-t. The mean and UCLs were then transformed using the inverse natural log function (e^x).

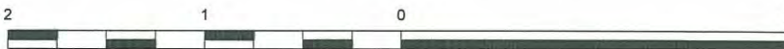
FIGURES



CALIFORNIA




SCALE IN FEET



SCALE IN MILE

REFERENCE: CA Digital Raster Graphics (<http://gis.ca.gov/casil/usgs.gov/>)
7.5 Minute Series, Albers NAD83, Trimmed
Block o34117a3, Dated 1980.

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 Stantec 25864-F BUSINESS CENTER DRIVE REDLANDS, CALIFORNIA PHONE: (909) 335-6116 FAX: (909) 335-6120	FOR: AECOM (LAN ENGINEERING) I-215 INTERCHANGE WITH BARTON ROAD GRAND TERRACE, CALIFORNIA		SITE LOCATION MAP		FIGURE: 1
	JOB NUMBER: 185802086	DRAWN BY: JR	CHECKED BY:	APPROVED BY:	DATE: 10/19/09



LEGEND:

- SOIL BORING (HAND AUGER) LOCATION AND NUMBER




 Stantec 25864-F BUSINESS CENTER DRIVE REDLANDS, CALIFORNIA PH (909) 335-6116 FAX (909) 335-6120	FOR: AECOM/LAN ENGINEERING I-215 INTERCHANGE WITH BARTON ROAD COLTON, CALIFORNIA		SITE MAP WITH BORING LOCATIONS		FIGURE: 2
	JOB NUMBER: 185802086	DRAWN BY: KD	CHECKED BY: KD	APPROVED BY: AP	DATE: 1/29/10

Figure 3
Linear Regression Analysis

$$y = 19.6x + 11.5$$
$$R^2 = 1.0$$

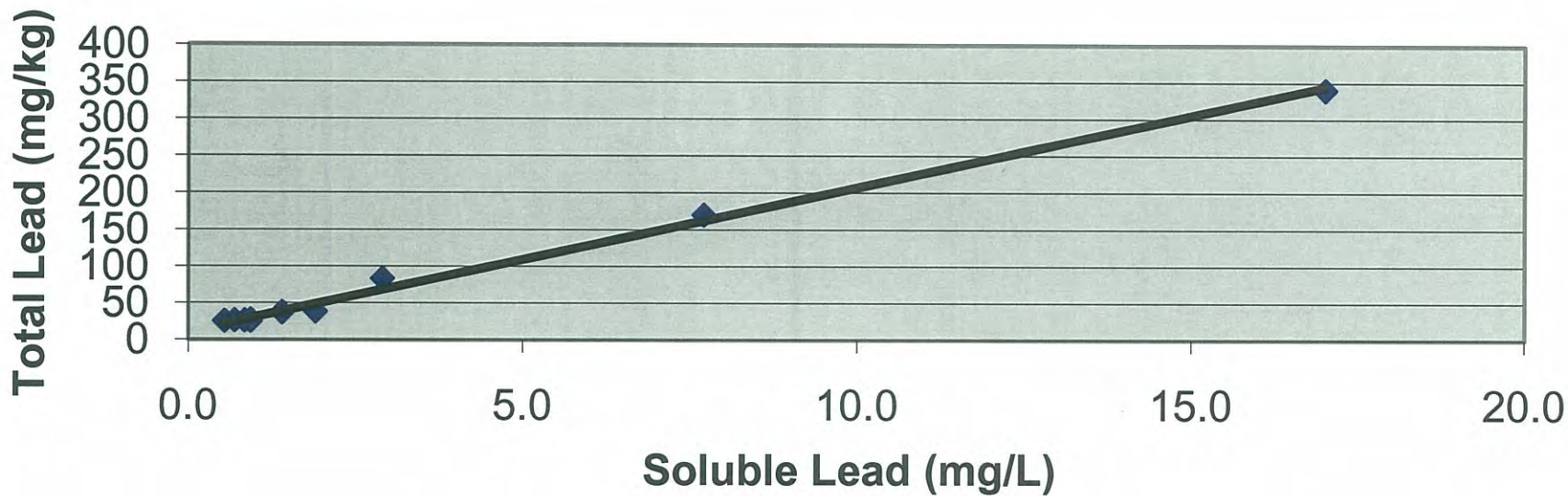


Figure 4a
Histogram - Total Lead (All Samples)

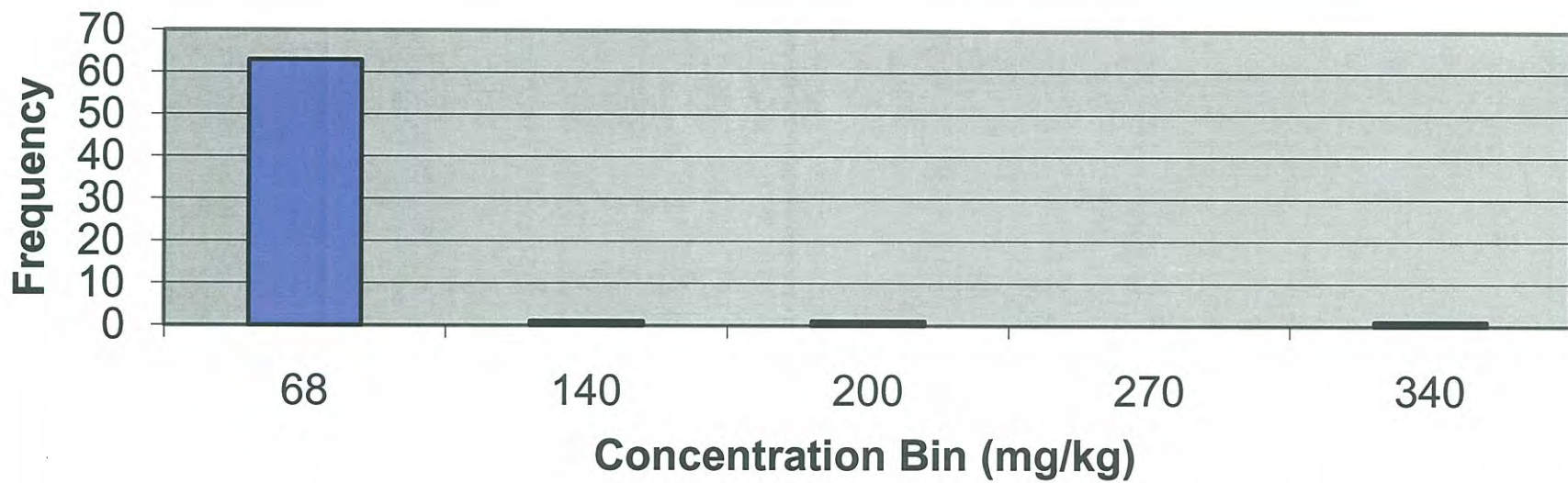


Figure 4b
Histogram - Total Lead (ln(x) Transformed)

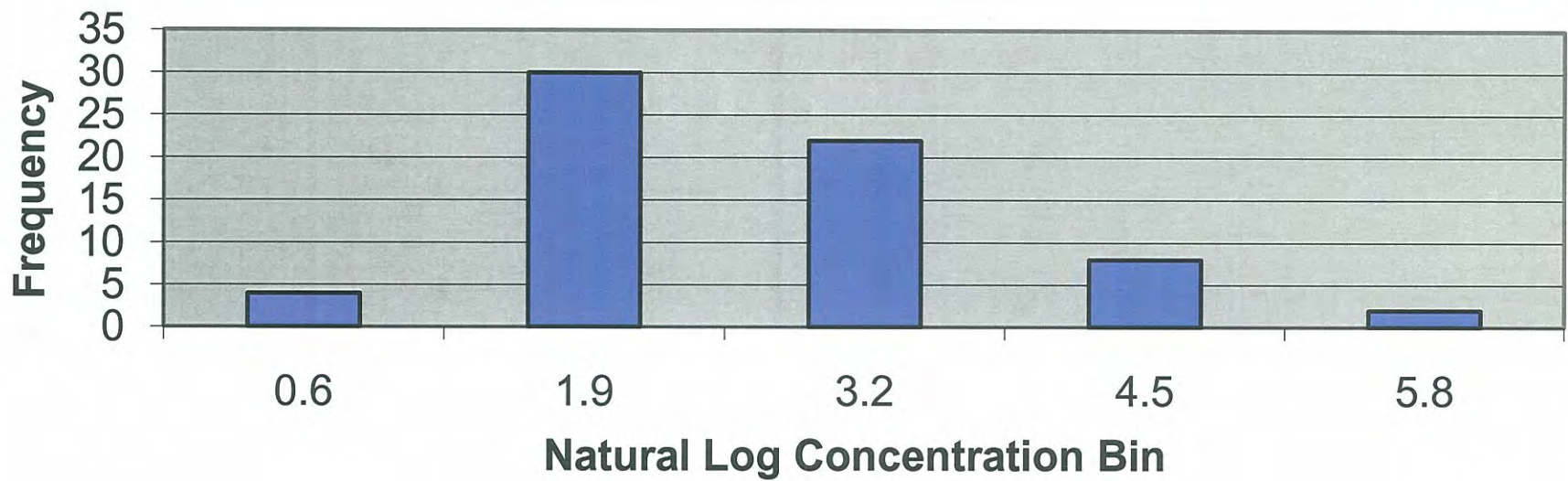


Figure 5a
Histogram - Soluble Lead (Cal WET-Citric)

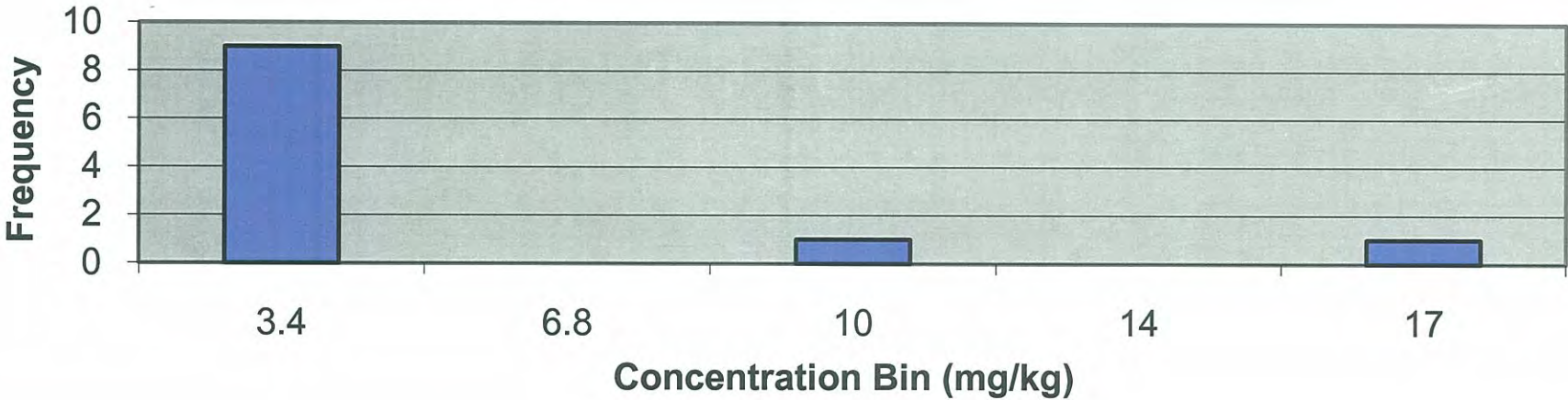
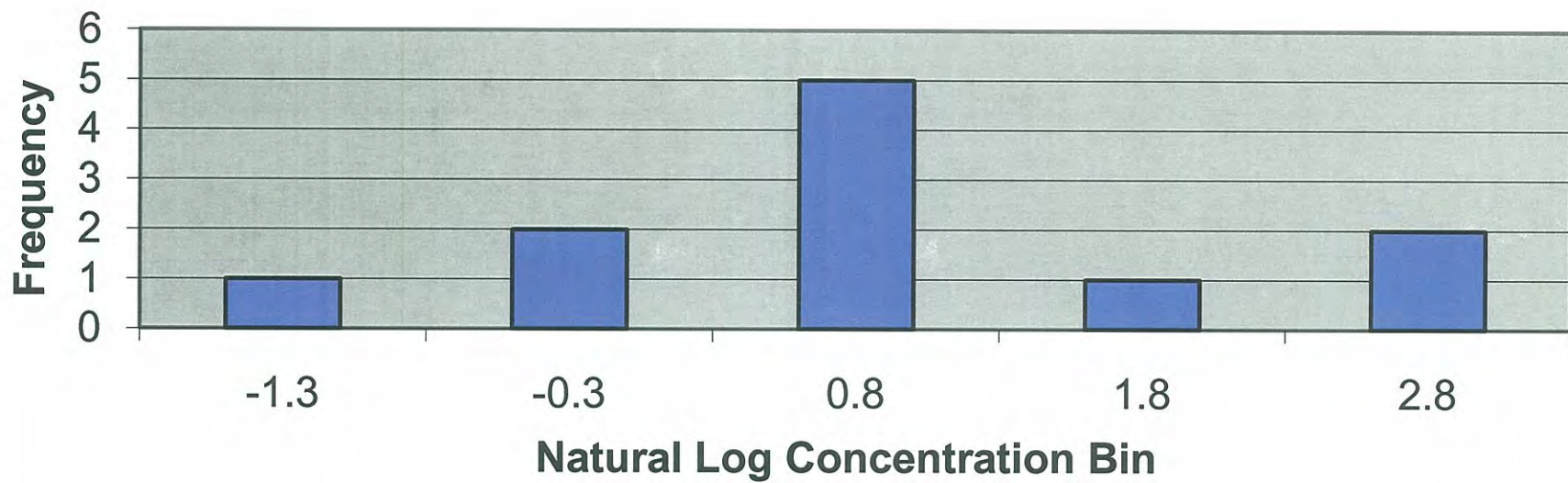


Figure 5b
Histogram - Soluble Lead
(Cal WET-Citric $\ln(x)$ Transformed)



**FIGURE 6
BLOCK DIAGRAMS
80% and 95% UCLs for
All Areas**

Surface Feet	Total Lead	CAL WET-Citric Soluble Lead
1	UCL ₈₀ = 47	UCL ₈₀ = 1.8
	UCL ₉₅ = 58	UCL ₉₅ = 2.4
2	UCL ₈₀ = 22	UCL ₈₀ = 0.54
	UCL ₉₅ = 28	UCL ₉₅ = 0.84
3	UCL ₈₀ = 7.6	UCL ₈₀ = < 0.051
	UCL ₉₅ = 8.6	UCL ₉₅ = < 0.051

The above diagram shows the total (mg/kg) and predicted Cal WET soluble lead (mg/L) concentrations where each layer (0 to 1, 2 to 2, and 2 to 3 feet) is treated independently.

Surface Feet	Total Lead	CAL WET-Citric Soluble Lead
1	UCL ₈₀ = 47	UCL ₈₀ = 1.8
	UCL ₉₅ = 58	UCL ₉₅ = 2.4
2	UCL ₈₀ = 14	UCL ₈₀ = 0.13
	UCL ₉₅ = 17	UCL ₉₅ = 0.28
3		

The above diagram shows the total (mg/kg) and predicted Cal WET soluble lead (mg/L) concentrations where the upper 1 foot is treated independently of an underlying layer ranging from 1 to 3 feet.

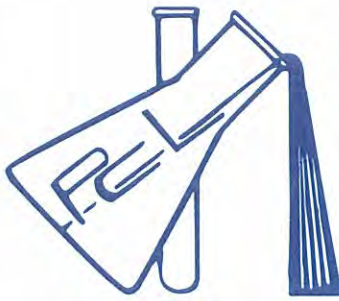
Surface Feet	Total Lead	CAL WET-Citric Soluble Lead
1	UCL ₈₀ = 32	UCL ₈₀ = 1.0
	UCL ₉₅ = 39	UCL ₉₅ = 1.4
2	UCL ₈₀ = 7.6	UCL ₈₀ = < 0.051
	UCL ₉₅ = 8.6	UCL ₉₅ = < 0.051
3		

The above diagram shows the total (mg/kg) and predicted Cal WET soluble lead (mg/L) concentrations where the upper 2 feet is treated independently of an underlying layer ranging from 2 to 3 feet.

Surface Feet	Total Lead	CAL WET-Citric Soluble Lead
1	UCL ₈₀ = 24	UCL ₈₀ = 0.64
	UCL ₉₅ = 29	UCL ₉₅ = 0.89
2		
3		

The above diagram shows the total (mg/kg) and predicted Cal WET soluble lead (mg/L) concentrations where the entire zone of investigation is treated as a single layer from 0 to 3 feet.

APPENDIX A
ANALYTICAL LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS



PAT-CHEM LABORATORIES

11990 Discovery Ct. • Moorpark, CA 93021 • Ph. (805) 532-0012 • Fax (805) 532-0016

Customer: **Stantec**
25864 F Business Center Drive
Redlands CA, 92374

Page 1 of 13

Attention: Anne Perez
Report Date: 12-Aug-09 10:21
Subject: Soil Samples

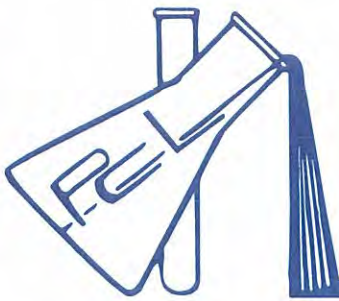
Project/P.O.#: 1858020XX, Barton Road

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
-1-0.5 (Sample I.D.# : 0907362-01) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	83 mg/kg	
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	2.9 mg/l	
-1-1.5 (Sample I.D.# : 0907362-02) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	8.6 mg/kg	
B-1-2.5 (Sample I.D.# : 0907362-03) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	8.2 mg/kg	
B-2-0.5 (Sample I.D.# : 0907362-04) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	18 mg/kg	
-2-1.5 (Sample I.D.# : 0907362-05) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	8.3 mg/kg	
B-2-2.5 (Sample I.D.# : 0907362-06) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.2 mg/kg	
B-3-0.5 (Sample I.D.# : 0907362-07) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	17 mg/kg	
-3-1.5 (Sample I.D.# : 0907362-08) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	4.3 mg/kg	
B-3-2.5 (Sample I.D.# : 0907362-09) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.8 mg/kg	
B-4-0.5 (Sample I.D.# : 0907362-10) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	10 mg/kg	
-4-1.5 (Sample I.D.# : 0907362-11) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	11 mg/kg	
B-4-2.5 (Sample I.D.# : 0907362-12) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.5 mg/kg	
B-5-0.5 (Sample I.D.# : 0907362-13) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	20 mg/kg	
-5-1.5 (Sample I.D.# : 0907362-14) Collected: 27-Jul-09 By Stantec						

Respectfully Submitted,

Pat Brueckner
Laboratory Director

8/12/2009



PAT-CHEM LABORATORIES

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25864 F Business Center Drive
Redlands CA, 92374

Page 2 of 13

Attention: Anne Perez
Report Date: 12-Aug-09 10:21
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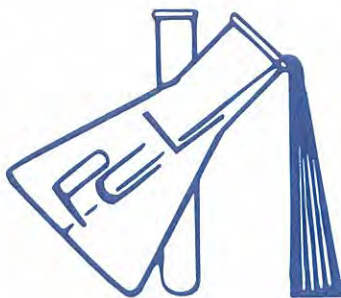
Project/P.O.#: 1858020XX, Barton Road

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
5-1.5 (Sample I.D.# : 0907362-14) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	170 mg/kg	
Lead	EPA 6010B(TCLP)	AH91101	0.02	11-Aug-09 (AF)	0.02 mg/l	
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	7.7 mg/l	
pH	EPA 9040	AH90903	0.1	09-Aug-09 (EA)	8.9 pH Units	
B-5-2.5 (Sample I.D.# : 0907362-15) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	6.2 mg/kg	
6-0.5 (Sample I.D.# : 0907362-16) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	5.8 mg/kg	
6-1.5 (Sample I.D.# : 0907362-17) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	8.4 mg/kg	
B-6-2.5 (Sample I.D.# : 0907362-18) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	6.4 mg/kg	
7-0.5 (Sample I.D.# : 0907362-19) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	10 mg/kg	
7-1.5 (Sample I.D.# : 0907362-20) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	2.9 mg/kg	
B-7-2.5 (Sample I.D.# : 0907362-21) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	7.5 mg/kg	
8-0.5 (Sample I.D.# : 0907362-22) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	26 mg/kg	

Respectfully Submitted,

Pat Brueckner
Laboratory Director

8/12/2009



PAT-CHEM LABORATORIES

11990 Discovery Ct. • Moorpark, CA 93021 • Ph. (805) 532-0012 • Fax (805) 532-0016

Customer: **Stantec**
25864 F Business Center Drive
Redlands CA, 92374

Page 3 of 13

Attention: Anne Perez
Report Date: 12-Aug-09 10:21
Subject: Soil Samples

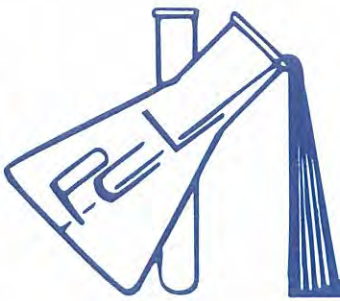
Project/P.O.#: 1858020XX, Barton Road

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
8-0.5 (Sample I.D.# : 0907362-22) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	0.84 mg/l	
B-8-1.5 (Sample I.D.# : 0907362-23) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	9.4 mg/kg	
B-8-2.5 (Sample I.D.# : 0907362-24) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	4.6 mg/kg	
9-0.5 (Sample I.D.# : 0907362-25) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	340 mg/kg	
Lead	EPA 6010B(TCLP)	AH91101	0.02	11-Aug-09 (AF)	0.14 mg/l	
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	17 mg/l	
pH	EPA 9040	AH90903	0.1	09-Aug-09 (EA)	7.4 pH Units	
B-9-1.5 (Sample I.D.# : 0907362-26) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	25 mg/kg	
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	0.54 mg/l	
B-9-2.5 (Sample I.D.# : 0907362-27) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	2.5 mg/kg	
10-0.5 (Sample I.D.# : 0907362-28) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	6.4 mg/kg	
10-1.5 (Sample I.D.# : 0907362-29) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	4.3 mg/kg	
B-10-2.5 (Sample I.D.# : 0907362-30) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	5.8 mg/kg	
11-0.5 (Sample I.D.# : 0907362-31) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	12 mg/kg	
11-1.5 (Sample I.D.# : 0907362-32) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.8 mg/kg	
B-11-2.5 (Sample I.D.# : 0907362-33) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	4.5 mg/kg	

Respectfully Submitted,

Pat Brueckner
Laboratory Director

8/12/2009



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Customer: **Stantec**
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Attention: Anne Perez
Report Date: 12-Aug-09 10:21
Subject: Soil Samples

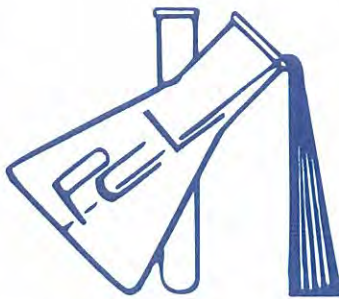
Project/P.O.#: 1858020XX, Barton Road

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
12-0.5 (Sample I.D.# : 0907362-34) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	37 mg/kg	
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	1.4 mg/l	
12-1.5 (Sample I.D.# : 0907362-35) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	6.0 mg/kg	
B-12-2.5 (Sample I.D.# : 0907362-36) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	6.0 mg/kg	
B-13-0.5 (Sample I.D.# : 0907362-37) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	39 mg/kg	
13-1.5 (Sample I.D.# : 0907362-38) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.1 mg/kg	
B-13-2.5 (Sample I.D.# : 0907362-39) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	7.2 mg/kg	
B-14-0.5 (Sample I.D.# : 0907362-40) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	1.4 mg/kg	
14-1.5 (Sample I.D.# : 0907362-41) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	<	1.0 mg/kg
B-14-2.5 (Sample I.D.# : 0907362-42) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	1.8 mg/kg	
B-15-0.5 (Sample I.D.# : 0907362-43) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	22 mg/kg	
15-1.5 (Sample I.D.# : 0907362-44) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.9 mg/kg	
B-15-2.5 (Sample I.D.# : 0907362-45) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	26 mg/kg	

Respectfully Submitted,

Pat Brueckner
Laboratory Director

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Attention: Anne Perez
Report Date: 12-Aug-09 10:21
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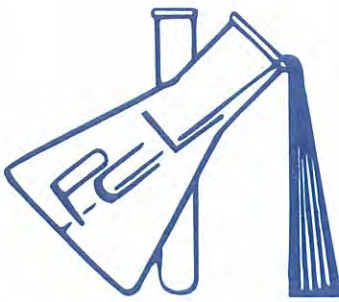
Project/P.O.#: 1858020XX, Barton Road

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
P-15-2.5 (Sample I.D.# : 0907362-45) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	<	0.20 mg/l
P-16-0.5 (Sample I.D.# : 0907362-46) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		5.8 mg/kg
B-16-1.5 (Sample I.D.# : 0907362-47) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		4.2 mg/kg
P-16-2.5 (Sample I.D.# : 0907362-48) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		4.5 mg/kg
P-17-0.5 (Sample I.D.# : 0907362-49) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		3.6 mg/kg
B-17-1.5 (Sample I.D.# : 0907362-50) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		5.6 mg/kg
P-17-2.5 (Sample I.D.# : 0907362-51) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		7.9 mg/kg
P-18-0.5 (Sample I.D.# : 0907362-52) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		25 mg/kg
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)		0.93 mg/l
B-18-1.0 (Sample I.D.# : 0907362-53) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		27 mg/kg
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)		0.93 mg/l
B-18-2.5 (Sample I.D.# : 0907362-54) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		22 mg/kg
B-19-0.5 (Sample I.D.# : 0907362-55) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)		26 mg/kg

Respectfully Submitted,

Pat Brueckner
Laboratory Director

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Attention: Anne Perez
Report Date: 12-Aug-09 10:21
Subject: Soil Samples

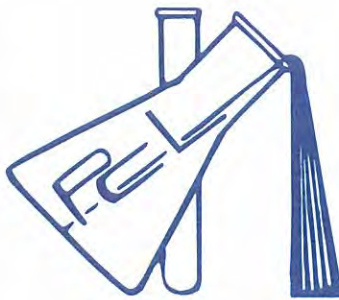
Project/P.O.#: 1858020XX, Barton Road

PARAMETER	METHOD	QC BATCH	REPORTING LIMIT	ANALYZED (ANALYST)	RESULT	NOTE
-19-0.5 (Sample I.D.# : 0907362-55) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	0.69 mg/l	
-19-1.5 (Sample I.D.# : 0907362-56) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	6.2 mg/kg	
B-19-2.5 (Sample I.D.# : 0907362-57) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.9 mg/kg	
-20-0.5 (Sample I.D.# : 0907362-58) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	16 mg/kg	
-20-1.5 (Sample I.D.# : 0907362-59) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	9.1 mg/kg	
B-20-2.5 (Sample I.D.# : 0907362-60) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.9 mg/kg	
-21-0.5 (Sample I.D.# : 0907362-61) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	38 mg/kg	
Lead	EPA 6010B(STLC)	AH90708	0.20	07-Aug-09 (AF)	1.9 mg/l	
-21-1.0 (Sample I.D.# : 0907362-62) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	24 mg/kg	
P-21-2.5 (Sample I.D.# : 0907362-63) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	1.0 mg/kg	
B-22-0.5 (Sample I.D.# : 0907362-64) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	6.8 mg/kg	
-22-1.5 (Sample I.D.# : 0907362-65) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.2 mg/kg	
P-22-2.5 (Sample I.D.# : 0907362-66) Collected: 28-Jul-09 By Stantec						
Lead	EPA 6010B	AG93108	1.0	03-Aug-09 (AF)	3.5 mg/kg	
EBQC-1 (Sample I.D.# : 0907362-67) Collected: 27-Jul-09 By Stantec						
Lead	EPA 6010B	AH90401	0.02	04-Aug-09 (AF)	< 0.02 mg/l	

Respectfully Submitted,

Pat Brueckner
Laboratory Director

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Attention: Anne Perez
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Project/P.O.#: 1858020XX, Barton Road

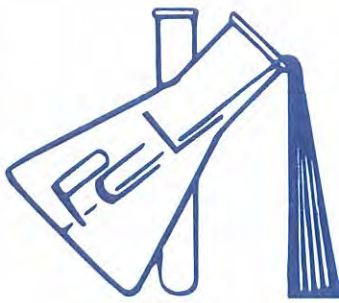
Metals by EPA 6000/7000 Series Methods - Quality Control

Parameter	Result	Rep. Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Note
Batch AG93108 - EPA 3050B										
Blank (AG93108-BLK1)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	ND	1.0	mg/kg							
Blank (AG93108-BLK2)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	ND	1.0	mg/kg							
Blank (AG93108-BLK3)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	ND	1.0	mg/kg							
Blank (AG93108-BLK4)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	ND	1.0	mg/kg							
LCS (AG93108-BS1)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	28.5	1.0	mg/kg	25.0		114	80-120			
LCS (AG93108-BS2)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	28.4	1.0	mg/kg	25.0		114	80-120			
LCS (AG93108-BS3)										Prepared: 31-Jul-09 Analyzed: 04-Aug-09
Lead	23.8	1.0	mg/kg	25.0		95.2	80-120			
LCS (AG93108-BS4)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	28.3	1.0	mg/kg	25.0		113	80-120			
LCS Dup (AG93108-BSD1)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	27.2	1.0	mg/kg	25.0		109	80-120	4.62	20	
LCS Dup (AG93108-BSD2)										Prepared: 31-Jul-09 Analyzed: 03-Aug-09
Lead	27.2	1.0	mg/kg	25.0		109	80-120	4.27	20	

Respectfully Submitted,

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Laboratory Director

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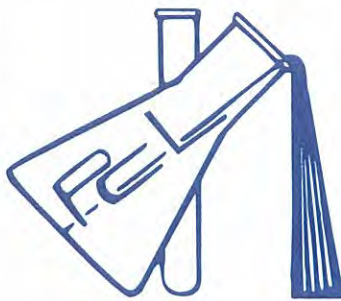
Metals by EPA 6000/7000 Series Methods - Quality Control

Parameter	Result	Rep. Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note
Batch AG93108 - EPA 3050B										
CS Dup (AG93108-BSD3)				Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	27.6	1.0	mg/kg	25.0		111	80-120	14.9	20	
LCS Dup (AG93108-BSD4)				Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	27.0	1.0	mg/kg	25.0		108	80-120	4.64	20	
Duplicate (AG93108-DUP1)				Source: 0907362-01 Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	85.9	1.0	mg/kg		83.0			3.37	20	
Duplicate (AG93108-DUP2)				Source: 0907362-02 Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	8.12	1.0	mg/kg		8.56			5.23	20	
Duplicate (AG93108-DUP3)				Source: 0907362-03 Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	8.23	1.0	mg/kg		8.21			0.259	20	
Duplicate (AG93108-DUP4)				Source: 0907362-04 Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	18.6	1.0	mg/kg		18.3			1.69	20	
Matrix Spike (AG93108-MS1)				Source: 0907362-01 Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	196	1.0	mg/kg	125	83.0	90.3	75-125			
Matrix Spike (AG93108-MS2)				Source: 0907362-02 Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	114	1.0	mg/kg	125	8.56	84.1	75-125			
Matrix Spike (AG93108-MS3)				Source: 0907362-03 Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	126	1.0	mg/kg	125	8.21	94.4	75-125			
Matrix Spike (AG93108-MS4)				Source: 0907362-04 Prepared: 31-Jul-09 Analyzed: 03-Aug-09						
Lead	112	1.0	mg/kg	125	18.3	75.3	75-125			

Respectfully Submitted,

Pat Brueckner
Laboratory Director

8/12/2009



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Attention: Anne Perez
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Project/P.O.#: 1858020XX, Barton Road

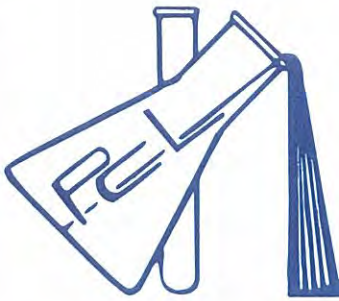
Metals by EPA 6000/7000 Series Methods - Quality Control

Parameter	Result	Rep. Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Note
Batch AG93108 - EPA 3050B										
Matrix Spike Dup (AG93108-MSD1)	Source: 0907362-01		Prepared: 31-Jul-09 Analyzed: 03-Aug-09							
Lead	180	1.0	mg/kg	125	83.0	77.4	75-125	8.56	20	
Matrix Spike Dup (AG93108-MSD2)	Source: 0907362-02		Prepared: 31-Jul-09 Analyzed: 03-Aug-09							
Lead	122	1.0	mg/kg	125	8.56	91.0	75-125	7.35	20	
Matrix Spike Dup (AG93108-MSD3)	Source: 0907362-03		Prepared: 31-Jul-09 Analyzed: 03-Aug-09							
Lead	132	1.0	mg/kg	125	8.21	99.0	75-125	4.45	20	
Matrix Spike Dup (AG93108-MSD4)	Source: 0907362-04		Prepared: 31-Jul-09 Analyzed: 03-Aug-09							
Lead	123	1.0	mg/kg	125	18.3	83.7	75-125	8.89	20	
Batch AH90401 - EPA 200 Series										
Blank (AH90401-BLK1)	Prepared & Analyzed: 04-Aug-09									
Lead	ND	0.02	mg/l							
LCS (AH90401-BS1)	Prepared & Analyzed: 04-Aug-09									
Lead	0.500	0.02	mg/l	0.500		100	80-120			
LCS Dup (AH90401-BSD1)	Prepared & Analyzed: 04-Aug-09									
Lead	0.508	0.02	mg/l	0.500		102	80-120	1.61	20	
Duplicate (AH90401-DUP1)	Source: 0907362-67		Prepared & Analyzed: 04-Aug-09							
Lead	ND	0.02	mg/l		ND				20	
Matrix Spike (AH90401-MS1)	Source: 0907362-67		Prepared & Analyzed: 04-Aug-09							
Lead	0.933	0.02	mg/l	1.00	ND	93.3	80-120			

Respectfully Submitted,

Pat Brueckner
Laboratory Director

8/12/2009



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Project/P.O.#: 1858020XX, Barton Road

Metals by EPA 6000/7000 Series Methods - Quality Control

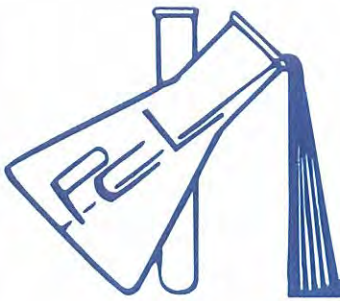
Parameter	Result	Rep. Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note
Batch AH90401 - EPA 200 Series										
Matrix Spike Dup (AH90401-MSD1)										
Lead	0.938	0.02	mg/l	1.00	ND	93.8	80-120	0.502	20	

Source: 0907362-67 Prepared & Analyzed: 04-Aug-09

Respectfully Submitted,

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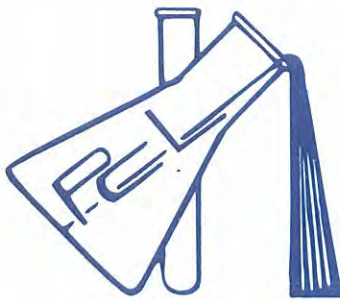
TCLP Metals by 6000/7000 Series Methods - Quality Control

Parameter	Result	Rep. Limit	Units	Spike Level	Source Result	%REC %REC	RPD	RPD Limit	Note
Batch AH91101 - TCLP Metals									
Blank (AH91101-BLK1) Prepared & Analyzed: 11-Aug-09									
Lead	ND	0.02	mg/l						
LCS (AH91101-BS1) Prepared & Analyzed: 11-Aug-09									
Lead	0.509	0.02	mg/l	0.500		102		80-120	
CS Dup (AH91101-BSD1) Prepared & Analyzed: 11-Aug-09									
Lead	0.500	0.02	mg/l	0.500		100	1.71	80-120	20
Duplicate (AH91101-DUP1) Source: 0907362-14 Prepared & Analyzed: 11-Aug-09									
Lead	0.0179	0.02	mg/l		0.0200		11.3		20
Matrix Spike (AH91101-MS1) Source: 0907362-14 Prepared & Analyzed: 11-Aug-09									
Lead	0.940	0.02	mg/l	1.00	0.0200	92.0		75-125	
Matrix Spike Dup (AH91101-MSD1) Source: 0907362-14 Prepared & Analyzed: 11-Aug-09									
Lead	0.931	0.02	mg/l	1.00	0.0200	91.1	0.943	75-125	20

Respectfully Submitted,

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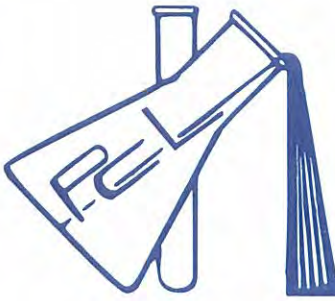
STLC Metals by 6000/7000 Series Methods - Quality Control

Parameter	Result	Rep. Limit	Units	Spike Level	Source Result	%REC %REC	RPD	RPD Limit	Note
Batch AH90708 - Title 22-STLC									
Blank (AH90708-BLK1) Prepared & Analyzed: 07-Aug-09									
Lead	ND	0.02	mg/l						
LCS (AH90708-BS1) Prepared & Analyzed: 07-Aug-09									
Lead	0.526	0.02	mg/l	0.500		105 80-120			
LCS Dup (AH90708-BSD1) Prepared & Analyzed: 07-Aug-09									
Lead	0.537	0.02	mg/l	0.500		107 80-120	2.14	20	
Duplicate (AH90708-DUP1) Source: 0907362-45 Prepared & Analyzed: 07-Aug-09									
Lead	0.108	0.20	mg/l		0.110		1.96	20	
Matrix Spike (AH90708-MS1) Source: 0907362-45 Prepared & Analyzed: 07-Aug-09									
Lead	9.07	0.20	mg/l	10.0	0.110	89.6 80-120			
Matrix Spike Dup (AH90708-MSD1) Source: 0907362-45 Prepared & Analyzed: 07-Aug-09									
Lead	9.33	0.20	mg/l	10.0	0.110	92.2 80-120	2.85	20	

Respectfully Submitted,

Pat Brueckner
Laboratory Director

8/12/2009



PAT-CHEM LABORATORIES

11990 Discovery Ct. • Moorpark, CA 93021 • Ph. (805) 532-0012 • Fax (805) 532-0016

Customer: **Stantec**
25864 F Business Center Drive
Redlands CA, 92374

Page 13 of 13

Attention: Anne Perez
Report Date: 12-Aug-09 10:21
Subject: Soil Samples

Project/P.O.#: 1858020XX, Barton Road

General Inorganic Nonmetallic Chemistry by Standard Methods/EPA Methods - Quality Control

Parameter	Result	Rep. Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Note
Batch AH90903 - General Preparation										
Duplicate (AH90903-DUP2)										
Source: 0907362-14										
Prepared & Analyzed: 09-Aug-09										
pH	9.05	0.1	pH Units		8.93			1.33	15	

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

Respectfully Submitted,

Pat Brueckner
Laboratory Director

8/12/2009

0401:202

STANTEC CHAIN-OF-CUSTODY RECORD							COC#						
FIELD OFFICE INFORMATION			PROJECT INFORMATION				ANALYSES / METHOD			REMARKS/ PRECAUTIONS			
OFFICE: 004			Project No.: 1858020XX		Task: 0001		REQUEST			REPORT REQUIREMENTS			
Send Report to: Anne Perez 25864 F Business Center Dr. Redlands CA Telephone: (909) 335-6116 Fax/E-Mail: (909) 335-6120 / anne.perez@stantec.com			Project Name: Barton Road		Project Manager: Anne Perez		6010 Total Pb 3010 Soluble Pb TCLP VOCs pH 8081 Pesticides			TAT Normal Rush Other:		MB & SURGS Dup/MS/MSD CLP R pt EDD Other	
			Laboratory: PatChem										
Sample No / Identification	Date	Time	Matrix	Container & Size	Preservative	6010 Total Pb	3010 Soluble Pb	TCLP	VOCs	pH	8081 Pesticides	REMARKS/ PRECAUTIONS	
01 B-1-0.5	7/27/2009	9:10	soil	1 Grab		X						1. Run STLC for samples	
02 B-1-1.5	7/27/2009	9:10	soil	1 Grab		X						exceeding 85 mg/kg of TTLC	
03 B-1-2.5	7/27/2009	9:10	soil	1 Grab		X						2. STLC samples exceeding 5mg/L	
04 B-2-0.5	7/27/2009	9:15	soil	1 Grab		X						run pH and TCLP analysis	
05 B-2-1.5	7/27/2009	9:15	soil	1 Grab		X							
06 B-2-2.5	7/27/2009	9:15	soil	1 Grab		X							
07 B-3-0.5	7/27/2009	9:15	soil	1 Grab		X							
08 B-3-1.5	7/27/2009	9:15	soil	1 Grab		X							
09 B-3-2.5	7/27/2009	9:15	soil	1 Grab		X							
10 B-4-0.5	7/27/2009	9:40	soil	1 Grab		X							
11 B-4-1.5	7/27/2009	9:40	soil	1 Grab		X							
Possible Hazard Identification Non-Hazardous: _____ Flammable: _____ Skin Irritant: _____ Poison B. Unknown: _____						Sample Disposal Disposal By Lab: X Archive For _____ Months Return to Client: _____							

Sampled By: RC

Shipping Method: Courier

Airbill Number:

Signature:	Print Name:	Company Name:	Date:	Time:
	Anne Perez	Stantec	7/30/09	10:45
Relinquished by:				
	L. Lara	PCL	7/30/09	1045
Received by:				
	L. Lara	PCL	7/30/09	1045

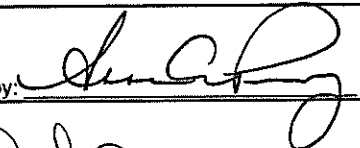
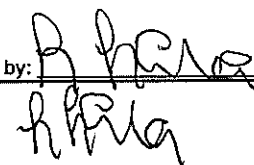

0907302

STANTEC CHAIN-OF-CUSTODY RECORD							COC#							
FIELD OFFICE INFORMATION			PROJECT INFORMATION				ANALYSES / METHOD			REMARKS / PRECAUTIONS				
OFFICE: 004			Project No.: 1858020XX		Task: 0001		REQUEST			REPORT REQUIREMENTS				
Send Report to: Anne Perez 25864 F Business Center Dr. Redlands CA Telephone: (909) 335-6116 Fax/E-Mail: (909) 335-6120 / anne.perez@stantec.com			Project Name: Barton Road		Project Manager: Anne Perez		6010 Total Pb 3010 Soluble Pb TCLP VOCs pH 8081 Pesticides			TAT				
			Laboratory: PatChem							Normal		MB & SURGS Dup/MS/MSD GLP R pt EDD Other		
Sample No. / Identification		SAMPLE			Container & Size **	Preservative								
		Date	Time	Matrix										
12 B-4-2.5		7/27/2009	9:40	soil	1 Grab		X						1. Run STLC for samples	
13 B-5-0.5		7/27/2009	10:10	soil	1 Grab		X						exceeding 35 mg/kg of TTLC	
14 B-5-1.5		7/27/2009	10:10	soil	1 Grab		X						2. STLC samples exceeding 5mg/L	
15 B-5-2.5		7/27/2009	10:10	soil	1 Grab		X						run pH and TCLP analysis	
16 B-6-0.5		7/27/2009	10:20	soil	1 Grab		X							
17 B-6-1.5		7/27/2009	10:20	soil	1 Grab		X							
18 B-6-2.5		7/27/2009	10:20	soil	1 Grab		X							
19 B-7-0.5		7/27/2009	10:30	soil	1 Grab		X							
20 B-7-1.5		7/27/2009	10:30	soil	1 Grab		X							
21 B-7-2.5		7/27/2009	10:30	soil	1 Grab		X							
22 B-8-0.5		7/27/2009	10:50	soil	1 Grab		X							
Possible Hazard Identification						Sample Disposal								
Non-Hazardous: _____		Flammable: _____		Skin Irritant: _____		Poison B. Unknown: _____		Disposal By Lab: X		Archive For _____ Months		Return to Client _____		

Sampled By:

Shipping Method: Courier

Airbill Number:

Signature:	Print Name:	Company Name:	Date:	Time:
Relinquished by: 	Anne Perez	Stantec	7/30/09	1045
Received by: 	R. Howard	PCL	7:30:9	1045
	L. Ward	PCL	7:30:9	

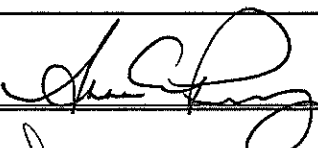
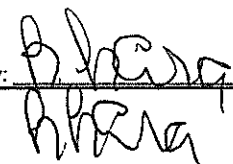
0401302

STANTEC CHAIN-OF-CUSTODY RECORD							COC # 3 OF 7 Pages						
FIELD OFFICE INFORMATION		PROJECT INFORMATION			ANALYSES / METHOD					REMARKS / PRECAUTIONS			
OFFICE: 004		Project No.: 1858020XX		Task: 0001			REQUEST					REPORT REQUIREMENTS	
Send Report to: Anne Perez 25864 F Business Center Dr. Redlands CA Telephone: (909) 335-6116 Fax/E-Mail: (909) 335-6120 / anne.perez@stantec.com		Project Name: Barton Road Project Manager: Anne Perez Laboratory: PatChem								TAT Normal Rush Other:		MB & SURGS Dup/MS/MSD GLP R pt EDD Other:	
Sample No. / Identification	SAMPLE			Container & Size **	Preservative	6010 Total Pb	3010 Soluble Pb	TCLP	VOCs	pH	8081 Pesticides		
23	B-8-1.5	7/27/2009	10:50	soil	1 Grab		X					1. Run STLC for samples	
24	B-8-2.5	7/27/2009	10:50	soil	1 Grab		X					exceeding 25 mg/kg of TTLC	
25	B-9-0.5	7/27/2009	10:55	soil	1 Grab		X					2. STLC samples exceeding 5mg/L	
26	B-9-1.5	7/27/2009	10:55	soil	1 Grab		X					run pH and TCLP analysis	
27	B-9-2.5	7/27/2009	10:55	soil	1 Grab		X						
28	B-10-0.5	7/27/2009	11:10	soil	1 Grab		X						
29	B-10-1.5	7/27/2009	11:10	soil	1 Grab		X						
30	B-10-2.5	7/27/2009	11:10	soil	1 Grab		X						
31	B-11-0.5	7/27/2009	11:23	soil	1 Grab		X						
32	B-11-1.5	7/27/2009	11:23	soil	1 Grab		X						
Possible Hazard Identification Non-Hazardous ___ Flammable ___ Skin Irritant ___ Poison B: Unknown ___						Sample Disposal Disposal By Lab: X Archive For ___ Months Return to Client: ___							

Sampled By:

Shipping Method: Courier

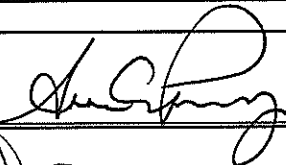
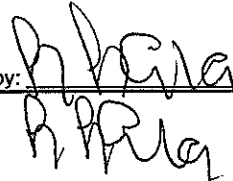

Airbill Number:

Signature:	Print Name:	Company Name:	Date:	Time:
Relinquished by: 	Anne Perez	Stantec	7/30/09	1045
Received by: 	L. Lopez	PCL	7-30-09	1045

041502

STANTEC CHAIN-OF-CUSTODY RECORD							COC # 4 OF 7 Pages						
FIELD OFFICE INFORMATION		PROJECT INFORMATION			ANALYSES / METHOD				REMARKS/ PRECAUTIONS				
OFFICE: 004		Project No.: 1858020XX		Task: 0001			REQUEST				TAT Normal Rush Other	REPORT REQUIREMENTS MB & SURGS Dup/MS/MSD GLP R pt EDD Other	
Send Report to: Anne Perez 25864 F Business Center Dr. Redlands CA Telephone: (909) 335-6116 Fax/E-Mail: (909) 335-6120 / anne.perez@stantec.com		Project Name: Barton Road		Project Manager: Anne Perez									
		Laboratory: PatChem											
Sample No. / Identification	SAMPLE			Container & Size **	Preservative	6010 Total Pb	3010 Soluble Pb	TCLP	VOCs	pH	8081 Pesticides		
33	B-11-2.5	7/27/2009	11:23	soil	1 Grab		X						1. Run STLC for samples
34	B-12-0.5	7/27/2009	12:50	soil	1 Grab		X						exceeding 25 mg/kg of TTLC
35	B-12-1.5	7/27/2009	12:50	soil	1 Grab		X						2. STLC samples exceeding 5mg/L
36	B-12-2.5	7/27/2009	12:50	soil	1 Grab		X						run pH and TCLP analysis
37	B-13-0.5	7/27/2009	12:55	soil	1 Grab		X						
38	B-13-1.5	7/27/2009	12:55	soil	1 Grab		X						
39	B-13-2.5	7/27/2009	12:55	soil	1 Grab		X						
40	B-14-0.5	7/27/2009	13:10	soil	1 Grab		X						
41	B-14-1.5	7/27/2009	13:10	soil	1 Grab		X						
42	B-14-2.5	7/27/2009	13:10	soil	1 Grab		X						
43	B-15-0.5	7/28/2009	8:10	soil	1 Grab		X						
Possible Hazard Identification Non-Hazardous: <input type="checkbox"/> Flammable: <input type="checkbox"/> Skin Irritant: <input type="checkbox"/> Poison B: <input type="checkbox"/> Unknown: <input type="checkbox"/>						Sample Disposal Disposal By Lab: <input checked="" type="checkbox"/> Archive For: <input type="checkbox"/> Months Return to Client: <input type="checkbox"/>							

Sampled By: Shipping Method: Courier Airbill Number:

Signature:	Print Name:	Company Name:	Date:	Time:
	Anne Perez	Stantec	7/30/09	1045
	L. Lard	REL odl	7:30 9	1045
	L. Lard		7:30 9	

0101342

STANTEC CHAIN-OF-CUSTODY RECORD							COC #						
FIELD OFFICE INFORMATION			PROJECT INFORMATION				ANALYSES / METHOD			REMARKS / PRECAUTIONS			
OFFICE: 004		Project No.: 1858020XX		Task: 0001			REQUEST			REPORT REQUIREMENTS			
Send Report to: Anne Perez		Project Name: Barton Road			6010 Total Pb 3010 Soluble Pb TCLP VOCs pH 8081 Pesticides			TAT		MB & SURGS			
25864 F Business Center Dr. Redlands CA		Project Manager: Anne Perez						Normal		Dup/MS/MSD			
Telephone: (909) 335-6116								Rush		GLP Rpt			
Fax/E-Mail: (909) 335-6120 / anne.perez@stantec.com		Laboratory: PatChem			Other:		EDD		Other:				
Sample No. / Identification	SAMPLE			Container & Size	Preservative								
Date	Time	Matrix											
44	B-15-1.5	7/28/2009	8:10	soil	1 Grab		X						1. Run STLC for samples
45	B-15-2.5	7/28/2009	8:10	soil	1 Grab		X						exceeding 35 mg/kg of TTLC
46	B-16-0.5	7/28/2009	8:07	soil	1 Grab		X						2. STLC samples exceeding 5mg/L
47	B-16-1.5	7/28/2009	8:07	soil	1 Grab		X						run pH and TCLP analysis
48	B-16-2.5	7/28/2009	8:07	soil	1 Grab		X						
49	B-17-0.5	7/28/2009	8:45	soil	1 Grab		X						
50	B-17-1.5	7/28/2009	8:45	soil	1 Grab		X						
51	B-17-2.5	7/28/2009	8:45	soil	1 Grab		X						
52	B-18-0.5	7/28/2009	8:50	soil	1 Grab		X						
53	B-18-1.0	7/28/2009	8:50	soil	1 Grab		X						
54	B-18-2.5	7/28/2009	8:50	soil	1 Grab		X						
Possible Hazard Identification						Sample Disposal							
Non-Hazardous		Flammable		Skin Irritant		Poison B: Unknown		Disposal By Lab: X		Archive For		Months Return to Client:	

Sampled By: Shipping Method: Courier Airbill Number:

Signature:	Print Name:	Company Name:	Date:	Time:
Relinquished by:	Anne Perez	Stantec	7/30/09	1045
Received by:	L. L. L.	PCL	7.30.9	1045
	L. L. L.	PCL	7.30.9	

041342

STANTEC CHAIN-OF-CUSTODY RECORD

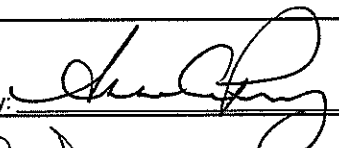
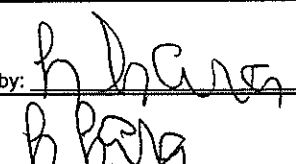
COC #
6 OF 7 Pages

FIELD OFFICE INFORMATION		PROJECT INFORMATION					ANALYSES / METHOD							REMARKS / PRECAUTIONS	
OFFICE: 004		Project No.: 1858020XX			Task: 0001		REQUEST							REPORT REQUIREMENTS	
Send Report to: Anne Perez		Project Name: Barton Road			Project Manager: Anne Perez		6010 Total Pb	3010 Soluble Pb	TCLP	VOCs	pH	8081 Pesticides	MB & SURGS Dip/MS/MSD CLP R pt EDD Other		
25864 F Business Center Dr. Redlands CA Telephone: (909) 335-6116 Fax/E-Mail: (909) 335-6120 / anne.perez@stantec.com		Laboratory: PatChem													
Sample No. / Identification	Date	Time	Matrix *	Container & Size **	Preservative	6010 Total Pb	3010 Soluble Pb	TCLP	VOCs	pH	8081 Pesticides				
55 B-19-0.5	7/28/2009	9:20	soil	1 Grab		X						1. Run STLC for samples			
56 B-19-1.5	7/28/2009	9:20	soil	1 Grab		X						exceeding 35 mg/kg of TTLC			
57 B-19-2.5	7/28/2009	9:20	soil	1 Grab		X						2. STLC samples exceeding 5mg/L			
58 B-20-0.5	7/28/2009	9:25	soil	1 Grab		X						run pH and TCLP analysis			
59 B-20-1.5	7/28/2009	9:25	soil	1 Grab		X									
60 B-20-2.5	7/28/2009	9:25	soil	1 Grab		X									
61 B-21-0.5	7/28/2009	10:00	soil	1 Grab		X									
62 B-21-1.0	7/28/2009	10:00	soil	1 Grab		X									
63 B-21-2.5	7/28/2009	10:00	soil	1 Grab		X									
64 B-22-0.5	7/28/2009	10:05	soil	1 Grab		X									
65 B-22-1.5	7/28/2009	10:05	soil	1 Grab		X									
Possible Hazard Identification Non-Hazardous: _____ Flammable: _____ Skin Irritant: _____ Poison B: _____ Unknown: _____					Sample Disposal Disposal By Lab: X Archive For _____ Months Return to Client: _____										

Sampled By:

Shipping Method: Courier

Airbill Number:

Signature:	Print Name:	Company Name:	Date:	Time:
	Anne Perez	Stantec	7/30/09	1045
	R. Lora	PCL	7309	1045
	L-Lora	PCL	7309	

0401302

STANTEC CHAIN-OF-CUSTODY RECORD

COC# 7 OF 7 Pages

FIELD OFFICE INFORMATION						PROJECT INFORMATION						ANALYSES / METHOD						REMARKS / PRECAUTIONS							
OFFICE: 004			Project No.: 1858020XX			Task: 0001			REQUEST						REPORT REQUIREMENTS										
Send Report to: Anne Perez			Project Name: Barton Road			<table border="1"> <tr> <td>6010 Total Pb</td> <td>3010 Soluble Pb</td> <td>TCLP</td> <td>VOCs</td> <td>pH</td> <td>8081 Pesticides</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						6010 Total Pb	3010 Soluble Pb	TCLP			VOCs	pH	8081 Pesticides						
6010 Total Pb	3010 Soluble Pb	TCLP	VOCs	pH	8081 Pesticides																				
25864 F Business Center Dr. Redlands CA						Project Manager: Anne Perez						Normal		MB & SURGS Dup/MSMSD CLP R pt EDD Other											
Telephone: (909) 335-6116						Laboratory: PatChem						Rush													
Fax/E-Mail: (909) 335-6120 / anne.perez@stantec.com												Other													
Sample No. / Identification		SAMPLE			Container & Size		Preservative																		
Date	Time	Matrix *	& Size **																						
Lolo B-22-2.5	7/28/2009	10:05	soil	1 Grab							X	1. Run STLC for samples													
Lol EBQC-1	7/27/2009	9:00	water	1 Bottle							X	exceeding 15 mg/kg of TLC													
										2. STLC samples exceeding 5mg/L															
										run pH and TCLP analysis															

Possible Hazard Identification				Sample Disposal			
Non-Hazardous: _____	Flammable: _____	Skin Irritant: _____	Poison B. Unknown: _____	Disposal By Lab: X	Archive For: _____ Months	Return to Client: _____	

Sampled By: Shipping Method: Courier Airbill Number:

Signature:	Print Name:	Company Name:	Date:	Time:
Relinquished by:	Anne Perez	Stantec	7/30/09	1045
Received by:	L. Lopez	PCL	7:30 9	1045
	L. Lopez	PCL	7:30 9	

**APPENDIX B
DATA EVALUATION PROTOCOL**

$$r = \frac{(\overline{XY}) - X \times Y}{S_x \times S_y} \times \frac{n}{n-1}$$

Where: \overline{XY} = the average of products or the average of each soluble lead level multiplied by the matching total lead level.

X = the soluble lead average.

Y = the total lead average.

Sx = the standard deviation of soluble lead.

Sy = the standard deviation of total lead.

n = the number of samples.

If the analysis indicates a correlation coefficient below 0.8, this must be explained in the report or the sample procedures adjusted and the sample reanalyzed for both total and soluble lead (see Laboratory: Laboratory Sampling Handling Procedures for Aerially-Deposited Lead Investigation Samples). The best time to look at this data is at the lab where problems can be resolved quickly and within the task order schedule.

For the linear regression analysis the soluble levels vs. the total levels will be graphed and a best fit line plotted for the data. A least squares method shall be used to estimate a straight line. This estimate is easily (and routinely) done by computer. The formula to be used for determining the least squares straight line shall be:

The slope of the line = (correlation) x (standard deviation of the total lead)/(standard deviation of the soluble lead).

The intercept of the line = (average total lead concentration) - (line slope) x (average soluble lead level).

Once the slope and the intercept are found, the line itself is known and can be drawn in the bivariate plot of the data. This graph can be used to approximate the expected solubility concentration from the average total concentrations.

Block Diagrams:

The Consultant shall provide block diagrams depicting the statistically determined concentrations of lead in the soil. The block diagrams shall depict the soil from surface to total depth of soil sampling. The block diagrams shall show a cross-section of the soil along with the total lead UCL concentration and the soluble lead UCL concentration for stratified layers of soil. The layers of soil to analyze shall be the top 0.5 foot, the top 1 foot, and the top 2 feet, unless otherwise specified in the Task Order.

B 3.2.2.16 Water Sampling

Water samples may be taken from surface sources, undeveloped borings, by direct push or CPT systems or from monitoring wells. Samples taken from undeveloped borings shall be obtained with clean stainless steel or Teflon ballers within the hollow stem auger. Water samples may also be obtained from monitoring wells after the well has been developed and purged. Well water shall be monitored for temperature, pH, and conductivity during purging. A minimum of 3 well volumes shall be purged prior to sampling. Purging shall continue until measurements of temperature, pH, and conductivity have stabilized (reproducible within 10%). This information shall be documented on a well purge log. These requirements may be

laboratory for analysis within 24 hours of sampling unless specified otherwise in the Task Order. Soil samples to be analyzed for volatile organic compounds shall be preserved with dry ice. For metals analysis of soil samples, when the total metal concentration (TTL) is greater than ten times the soluble threshold limit concentration (STLC) the laboratory shall contact the Consultant, who shall contact the Department Contract or Task Manager for approval before proceeding with the waste extraction test (WET).

In some cases soil samples will be obtained using EPA Method 5035, the Closed-System Purge-and Trap and Extraction for Volatile Organics in Soil and Waste Sample. Consultant will be directed in the task order to collect samples using this procedure and shall be responsible for supplying all equipment and trained personnel for performing Method 5035.

B 3.2.2.15 Aerially Deposited Lead Investigation Data Evaluation

The aerially deposited lead data is nonparametric. The Consultant shall use the Nonparametric Bootstrap Method to evaluate aerially deposited lead survey data:

B 3.2.2.15.1 Normalizing Data and Handling Non-Detects

The presence of non-detects in the lead analysis data can strongly skew sample data toward low values. Classical statistical methods do not work properly in these cases. A natural log ($\ln(x)$) transformation of the data allows calculation of upper confidence intervals for the mean. A histogram of the data set shall be developed to determine if the data are skewed and if transformation is necessary. If a data set is skewed, the data will be transformed using a $\ln(x)$ transformation and a new histogram developed to document the transformation.

Please note: analytical results for total and soluble lead will have results below the method detection limits. Nondetect results should be numerically set at one half the detection limit and all results used in calculations.

Total lead levels are often below 50mg/kg and a follow up WET analysis may not be necessary for all samples. Consequently, a project may have, for example, 30 total lead analysis and five (5) WET analysis. Of the five (5) WET analysis, three (3) may have lead levels which exceed the regulatory limit for hazardous waste of 5 mg/l. In this case, three (3) out of 30 samples would not necessarily make the sediment next to the road a hazardous waste. On the other hand, a single very high lead level out of many samples may not be representative of the concentrations of lead in sediment at a project and would not be considered representative of the waste. Good judgment and documentation of the data and how it is used are very important. In general, all sample data should be considered and used when evaluating lead levels and determining if a material is hazardous, triggers the Variance, and consequently which cover controls are necessary. The Consultant shall confer with the task order manager prior to and during the statistical analysis if clarification is needed.

B 3.2.2.15.2 Correlation of Total and Soluble Lead

Total lead and soluble lead (California WET) are bivariate data with a linear structure. The plot of the data shows basically a straight line trend except for some randomness. A lack of correlation usually means that the total and soluble lead samples were not pulled from the same sample aliquot. The correlation coefficient can be used as a quality check of the data. A correlation/regression analysis shall be performed on the data comparing soluble lead levels to total lead levels.

The following correlation coefficient formula (or equivalent) shall be used:

DRAFT

ENVIRONMENTAL SITE ASSESSMENT REPORT

**I-215 BI-COUNTY HOV GAP CLOSURE PROJECT:
BNSF RAILWAY SOIL, LBP, AND ACM INVESTIGATIONS
SAN BERNARDINO COUNTY, CALIFORNIA**

Prepared for:

AECOM/LAN Engineering Corporation
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1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION AND OBJECTIVES

At the request of AECOM (formerly LAN Engineering Corporation) and pursuant to the scope work outlined in the work plan dated March 23, 2009, Stantec Consulting Corporation (Stantec) has prepared this report to present the results, findings, and conclusions of a Phase II Environmental Site Assessment (ESA). This report was conducted to investigate potential recognized environmental concerns identified within the BNSF railroad right of way for the I-215 Bi-County HOV Gap Closure project (HOV project). The HOV Project limits extend along I-215 from approximately State Route 60/State Route 91/I-215 system interchange in the city of Riverside to Orange Show Road in the city of San Bernardino. The project includes paving of the inside median, outside widening of the freeway, the widening of several structures, and the replacement of two railroad underpasses to accommodate one new HOV lane in each direction.

The two railroad underpasses to be replaced will be removed and reconstructed to improve the vertical clearance over the freeway. The underpasses include: 1) the BNSF underpass over I-215 in Highgrove, in the county of San Bernardino, at MP 5.84; and, 2) the Union Pacific Railroad underpass over I-215 in the city of Grand Terrace, county of San Bernardino, Riverside subdivision, at MP 541.5. The two underpasses will be demolished and replaced with new structures. During construction shoo-fly structures will be constructed to provide continuous access for the railroads.

As part of due diligence activities under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and under the direction of AECOM, a limited ESA was conducted to evaluate potential environmental concerns and conditions in support of the proposed construction activities along the proposed construction zone, including:

- Impacted soils along the railway;
- Lead-based paint used on railway bridges; and
- Asbestos containing materials used as bridge structural components.

The following sections describe the methodology, findings, and conclusions of the ESA performed at each railway to assess potential environmental concerns. Also included is a summary of field sampling activities, laboratory test results, and recommendations for soil management during construction activities.

1.2 SCOPE-OF-WORK

The scope of the ESA consisted of the following general elements:

- Pre-field project assessment and Health and Safety Plan (HASP) development
- Hand augering and soil sampling
- Painted surface sampling
- Suspect asbestos containing materials sampling
- Laboratory analysis
- Data evaluation and report development

Each of the individual tasks is discussed in detail in the following subsections.

1.2.1 Pre-Field Activities

Site plans provided by AECOM were reviewed and compared to actual field conditions during the site reconnaissance. From this preliminary site evaluation and through discussions with AECOM engineers, sample locations were designated on site plans to guide field investigation activities. In addition, a site-specific HASP was developed in accordance with California Occupational Safety and Health Administration (Cal OSHA) requirements to guide field activities.

1.2.2 Field Sampling Activities

The field methods used for this site investigation were consistent with those proposed in the work plan submitted to AECOM dated March 26, 2009. The proposed sampling locations at each railroad site were accessible and no deviations were necessary. Field sampling is summarized in the following paragraphs.

- **Metals in soils**
 - Six (6) shallow hand-auger borings (HA-1 through HA-6) were advanced along accessible portions of the unpaved railway shoulder to a maximum depth of two feet below the ground surface (bgs).
 - Samples were collected at depths of 0.5-1, and 1.5-2 feet bgs.
 - The two samples collected from each boring were submitted for analysis of Title 22 Metals and the top sample was also submitted for polychlorinated biphenyl (PCB) and semi-volatile organic compounds (SVOC) analysis.
- **LBP**
 - Ten (10) paint chip samples (PC-1 through PC-10) were collected from the various painted surfaces associated with the railroad bridge.
 - Samples were submitted for analysis of total lead.
- **ACMS**
 - Ten (10) suspect ACM samples (01 through 10) were collected from shims, concrete, and expansion joint felt associated with the railroad bridge.
 - Samples were submitted for bulk asbestos analysis by polarized light microscopy (PLM) techniques.

Soil Sampling

At each location, soil samples were collected directly from the hand auger bailer, manually homogenized in the field, and discharged into glass jars with tight fitting caps and sealed with inert tape. All sample jars were labeled with a unique sample identification (ID) number, borehole ID, sample depth, sample date, and sample time. All samples were annotated on chain-of-custody forms and delivered to a laboratory certified by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) for the analyses indicated herein.

Prior to sampling, all soil sampling equipment was decontaminated prior to sampling at each location using an Alconox scrub solution and followed by a tap water and deionized water double rinse.

Paint Chip Sampling

Representative bulk paint chip samples were collected from the railway bridge within the construction zone. Where possible, a sample approximately one-half square inch in size was collected from the painted surface. The sample was collected by removing the paint using a chisel or other sharp instrument. Paint samples were placed in a Ziploc® plastic re-sealable bag, labeled (sample date, unique identifying number, sampler name, and job site), recorded on a chain of custody sheet, and securely packaged for delivery to the laboratory. The sample number, location, material type, etc. were also recorded on field logs.

ACM Sampling

Building materials were visually inspected for asbestos using the methods presented in the Federal AHERA regulations (40 CFR, Part 763) as a guideline. The principles presented under the US EPA Asbestos-Containing Materials in Schools, Final Rule and Notice, is generally accepted as the industry standard for ACM inspections. Potential ACMs were also physically assessed for friability, condition, and disturbance factors. Reasonable efforts were made to locate and sample materials representative of the entire site. However, for any structure, the existence of unique or concealed materials or debris is a possibility. It is common practice to collect additional bulk samples during actual abatement or demolition activities when hidden suspect ACMs are discovered.

Bulk samples of all homogeneous materials containing suspect ACMs were collected. A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in use, color, and texture. Bulk samples were collected to evaluate if there is any asbestos in representative material. The sample result identifies the percentage of each type of asbestos detected. A sample approximately one-half square inch in size was collected off each suspect ACM. The sample was collected by removing the material using a chisel or other sharp instrument to cut a representative piece away. No attempt was made to replace or repair these materials. However, the removal of small pieces of building materials does not typically compromise structural integrity. A plastic bag was used to contain the sample of suspect material and quickly sealed to prevent the escape of the material or the introduction of contamination from outside sources. A unique sample number was assigned to each sample.

1.2.3 Laboratory Analyses

Soil samples were submitted under chain-of-custody to Microbac Laboratories (Microbac). Microbac is certified by the California Environmental Laboratory Accreditation Program (ELAP) to perform the laboratory tests required in this project. Paint chip samples and suspect asbestos samples were submitted to EMC Analytical Laboratories (EMC) of Phoenix, Arizona. EMC is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP), and the State of Arizona and California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) for the analysis of lead and asbestos in bulk building material samples. Samples were analyzed as follows:

- Soil samples were submitted for the following analysis:
 - Title 22 Metals EPA test method 6010B
 - PCBs EPA test method 8082

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- SVOCs EPA test method 8270
- The paint chip samples were submitted for the following analysis:
 - Lead EPA SW-846 Method 7420
- The suspect ACM samples were submitted for the following analysis:
 - ACM analysis by Polarized Light Microscopy (PLM)

1.3 PREVIOUS SITE INVESTIGATIONS

Stantec is not aware of, and was not provided, any other environmental investigations associated with the recognized environmental concerns associated with the BNSF railway soils and bridge.

2.0 INVESTIGATIVE RESULTS

2.1 SUBSURFACE CONDITIONS

The soils encountered during sampling were generally brown to brownish gray in color and consisted of medium-grained sands with silts and some clays and gravels. The soils were relatively dry in the soil column down to the maximum depth of approximately 2 feet bgs. No chemical odors or staining were reported in the soil samples. Groundwater was not encountered in any of the boreholes and not expected to be present in the upper 20 feet.

2.2 ANALYTICAL RESULTS

Copies of the laboratory reports and chain-of-custody forms are included in Appendix A. The analytical results are tabulated on Tables 1, 2 and 3, and summarized below:

- **SOIL SAMPLES**
 - Twelve (12) total samples from six (6) borings (HA-1 to HA-6; Figure 2) were submitted for Title 22 Metals analysis and the six (6) shallow samples were also submitted for PCB and SVOC analysis.
 - Several metals analytes were reported above laboratory reporting limits in soil samples. Table 1 compares project sample data with the background statistical data from studies performed for the California Department of Toxic Substances Control (DTSC) in 1991 (Marret et al, April 1991). Based on this comparison it appears that the reported metals concentrations, with the exception of arsenic, are consistent with expected background concentrations.
 - Elevated arsenic (up to 22.4 mg/kg) was reported in samples to depths of at least 1 to 2 feet bgs in five (5) of the six (6) borings advanced along the railway.
 - PCB and SVOC analytes were not reported above the laboratory reporting limits in all samples.

- **LBP SAMPLES**
 - The painted surfaces along the railway bridge structure were in relatively good condition with no peeling or flaking visible.
 - Ten (10) samples (PC-1 to PC-10; Figure 3) were submitted for analysis of lead based paint.
 - Reported concentrations ranged from 160 to 64,500 mg/Kg. Six (6) of the samples reported lead concentrations exceeding the California Hazardous Waste level of 1,000 mg/Kg.

- **ACM SAMPLES**
 - The suspect asbestos containing materials along the railway bridge structure were in relatively good condition. The shims would be considered friable materials but were in good condition.
 - Ten (10) samples (01 to 10; Figure 3) were submitted for analysis of asbestos.
 - Asbestos was detected at 85% in all four (4) shim samples. Asbestos was not reported above reporting limits in the concrete and expansion joint felt samples.

2.3 DATA VALIDATION

Prior to submitting soil samples to the laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness. The laboratory reports were cross checked with the chain-of-custody forms to confirm accurate transposing of sample information. Laboratory quality assurance and quality control (QA/QC) data (method blanks, laboratory control samples and duplicates, matrix spike samples and duplicates) were also reviewed for compliance with QA/QC objectives. Based on this validation process, the quality of the data contained herein are adequate for the purposes of this study. Laboratory quality control data are attached in Appendix A.

3.0 CONCLUSIONS AND RECOMMENDATIONS

The ESA was conducted to evaluate potential environmental concerns or conditions within the proposed construction zone within the railroad right-of-way. The following paragraphs present conclusions and recommendations for development based on the findings of the Phase II ESA.

1. **Contaminated Soil:**

Metals were reported in soil samples collected from borings advanced at the site. With the exception of arsenic and lead, all of the analytes were reported at concentrations below typical regulatory action levels or expected background.

- Arsenic was reported at elevated concentrations, above expected background levels and the EPA RSLs (risk-based screening levels) near the railway line on both sides of the bridge. The reported concentrations are above typical action levels in the upper 2.5 feet. Unless a variance can be obtained to allow replacement of these materials within the railroad area, it is recommended that excavated soil of soil along the railroad tracks be disposed to an appropriately permitted landfill as non-hazardous waste.

2. **Lead-based Paint:**

- The paint along the railroad bridge girders, the painted concrete, and the steel frame (underneath) contains lead and should be managed as lead-based paint.

If the paint is removed separate from the structural materials, the LBP should be managed as a hazardous waste. However, if the structure is removed with the paint, the structure/paint mixture may be managed as a non hazardous waste, and disposed as demolition debris.

3. **Asbestos Containing Materials:**

- Laboratory analysis indicates that the shim material contains 85 percent (85%) asbestos. The material could be crushed by hand pressure, and is; therefore, considered a friable ACM Material. The shims were observed on both the north and south ends of the bridge.

Prior to reconstruction/demolition activities, a licensed asbestos abatement firm should be contracted to remove and dispose of identified asbestos containing materials. This work should be completed in accordance with the South Coast Air Quality Management District (SCAQMD) guidelines.

4. **Excess Soil Re-use:**

Caltrans or the contractor may wish to consider alternative re-use of excess soil, other than landfilling or onsite re-use. Much of the new right-of-way for the proposed construction activities is associated with property that has a long history of transportation use. Consequently, the potential for environmental impairment is greater on these properties. As indicated above, soil within the upper 2.5 feet on the BNSF railroad property should be disposed to an appropriately permitted landfill as non-hazardous waste unless a variance is procured for onsite re-use. Off-site re-use should only be considered with additional sampling and testing, otherwise it should be disposed as non-hazardous waste.

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Any soil considered for off-site, non-residential, re-use should be stockpiled, sampled and analyzed to assure that the soil is suitable for its intended re-use. At a minimum, samples should be analyzed for petroleum hydrocarbons, volatile organic compounds, polychlorinated biphenyls, pesticides, polycyclic aromatic compounds, and Title 22 metals. It is recommended that the suitability of excess soil for potential re-use be evaluated in accordance with the Department of Toxic Substances Control "Information Advisory – Clean Imported Fill Material", dated October 2001. The resulting data may be statistically compared to the May 2010 U.S. EPA Region 9 Remediation Screening Levels (RSLs). The data may be considered for re-use if the 95 percent Upper Confidence Limit of the mean is less than the US EPA Region 9 RSL for each analyte.

Other than the actions recommended above, no other investigation or remediation appears warranted at this time. Given the history of the Site, undiscovered or unknown environmental conditions may be encountered during grading and development of the proposed project. If encountered, additional investigations and removal actions may be required at that time.

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4.0 CLOSURE

The conclusions and recommendations contained in this report/assessment are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted engineering standards and practices applicable to this location and are subject to the following inherent limitations:

The data and findings presented in this report are valid as of the dates when the investigations were performed. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Work outlined in the Work Plan dated March 26, 2009.

Unless otherwise stated in the report, because of the limitations stated above, the findings, observations, and conclusions expressed in this report are not, and should not be, considered an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation.

No warranty or guarantee, whether express or implied, is made with respect to the data or the reported findings, observations, and conclusions, all of which, however, accurately reflect site conditions in existence at the time of investigation.

This report presents professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion as to the requirements of, nor compliance with, environmental laws, rules, regulations or policies of federal, state or local governmental agencies. Any use constitutes acceptance of the limits of liability. The report preparer's liability extends only to those parties contracted to complete this project and not to any other parties who may obtain the Report. Issues raised by the report should be reviewed by appropriate legal counsel.

This report is based, in part, on unverified information supplied to the report preparer by third-party sources. While efforts have been made to substantiate this third-party information, the report preparer cannot guarantee its completeness or accuracy.

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TABLES

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TABLE 1
Summary of Soil Analytical Results
BNSF BRIDGE RAILWAY

Sample ID ⁽¹⁾	Sample Depth	Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Cobalt mg/kg	Copper mg/kg	Lead mg/kg	Molybdenum mg/kg	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Thallium mg/kg	Vanadium mg/kg	Zinc mg/kg	Mercury (mg/kg)	PCBs	SVOCs
EPA REGIONAL SCREENING LEVELS⁽²⁾		31	1.6	5400	150	37	210	900	3100	150	390	1600	390	390	5.2	78	23,000		NA	NA
CALIFORNIA HUMAN HEALTH SCREENING LEVELS⁽³⁾		30	0.07	5200	150	1.7	NE	660	3000	150	380	1600	380	380	5	530	23,000		NA	NA
BACKGROUND CONCENTRATIONS⁽⁴⁾		Not established	0.6-11.0	133-1400	0.25-2.70	0.05-1.70	23-1579	2.7-46.9	9.1-96.4	12.4-97.1	0.1-9.6	9-509	0.015-0.430	13.2-39.4	9.8-36.2	75-288	133-236	0.05-0.90	NA	NA
BNSF - HAND AUGER SAMPLES																				
BNSF-1	0.5-1	<1.00	12.80	56.2	<0.500	<0.500	10.3	5.2	30.4	59.30	<0.500	9.47	<1.00	<1.00	<1.00	24.1	123	1.30	ALL ND	ALL ND
	1.5-2	<1.00	2.77	73.6	<0.500	<0.500	9.59	6.26	9.63	4.97	<0.500	7.57	<1.00	<1.00	<1.00	26.8	30.5	0.0378	NA	NA
BNSF-2	0.5-1	<1.00	22.40	55.2	<0.500	<0.500	13.1	5.87	36.4	25.30	<0.500	13	<1.00	<1.00	<1.00	25.9	50.4	0.0396	ALL ND	ALL ND
	1.5-2	<1.00	16.60	47.0	<0.500	<0.500	27.6	5.12	19.9	15.60	<0.500	19	<1.00	<1.00	<1.00	22.9	32.1	0.0237	NA	NA
BNSF-3	0.5-1	<1.00	7.11	43.4	<0.500	<0.500	9.46	4.4	15.6	15.40	<0.500	7.5	<1.00	<1.00	<1.00	20.0	32.1	0.0228	ALL ND	ALL ND
	1.5-2	<1.00	15.60	49.6	<0.500	<0.500	9.06	5.04	16	13.70	<0.500	8.52	<1.00	<1.00	<1.00	23.4	39	0.0257	NA	NA
BNSF-4	0.5-1	<1.00	12.40	53.5	<0.500	<0.500	27.7	6.17	22.1	12.90	<0.500	16.4	<1.00	<1.00	<1.00	26.4	33.4	0.0548	ALL ND	ALL ND
	1.5-2	1.33	13.30	59.6	<0.500	<0.500	28.1	6.58	17.7	8.80	<0.500	16.9	<1.00	<1.00	<1.00	28.2	34.7	0.0682	NA	NA
BNSF-5	0.5-1	1.11	14.00	22.8	<0.500	<0.500	5.9	2.84	26.1	11.20	<0.500	5.81	<1.00	<1.00	<1.00	12.5	20.1	0.0390	ALL ND	ALL ND
	1.5-2	<1.00	1.34	61.0	<0.500	<0.500	9.48	6.07	9.04	3.47	<0.500	7.67	<1.00	<1.00	<1.00	24.6	27.9	<0.0200	NA	NA
BNSF-6	0.5-1	2.67	4.42	58.6	<0.500	0.584	34.7	5.37	142	46.40	4.76	17.6	<1.00	<1.00	<1.00	25.6	71.7	0.0432	ALL ND	ALL ND
	1.5-2	2.55	2.52	54.8	<0.500	<0.500	10.9	6.19	19.8	28.50	<0.500	9.65	<1.00	<1.00	<1.00	26.5	29.8	<0.0200	NA	NA

NOTES:

⁽¹⁾Sample ID indicates borehole location followed by sample collection depth in feet

⁽²⁾United States Environmental Protection Agency Regional Screening Levels - dated December 2009

⁽³⁾California EPA California Human Health Screening Levels - dated January 2005

⁽⁴⁾Marrett, D.J., A.L. Page, G.R. Bradford, D. Bakhtar, R.C. Graham, A.C. Chang, Background Levels of Soil Trace Elements in Southern California Soils, April, 1991

<0.5 - Analyte not reported at or above stated detection limit

All samples were collected between 07/19/2010 through 07/22/2010

-- Indicated analysis of these constituents was not proposed or necessary.

Shading indicates a sample reporting a concentration that exceeds the regulatory screening levels.

TABLE 2
LEAD-BASED PAINT SAMPLE LOG AND ANALYTICAL RESULTS

SAMPLE NUMBER	SAMPLE TYPE (SAMPLE LOCATION)	Mg Pb/Kg	% Pb/by Weight	CONDITION
HUD/CAL-OSHA ACTION LEVELS		5,000	0.500	
CALIFORNIA HAZARDOUS WASTE ACTION LEVELS		1,000	0.100	
BNSF PAINT CHIP SAMPLES				
01PC	NE TOP GIRDER	59,300	59.3	Good; non-flaky
02PC	NE END GIRDER	56,200	56.2	
03PC	SE GRAY CONCRETE	350	0.035	
04PC	SE GIRDER	56,800	56.8	
05PC	SE GIRDER	55,400	55.4	
06PC	BENEATH NE GRAY CONCRETE	750	0.075	
07PC	SW GIRDER	54,700	54.7	
08PC	SW CONCRETE	160	0.016	
09PC	NW BENEATH STEEL	330	0.033	
10PC	NW END GIRDER	64,500	64.5	

Mg/Kg = Milligrams per Kilogram

Pb = Lead

Analytical documentation is in Appendix B. Paint Chip sample locations are depicted on the attached Figure.

Sample analyses completed by EMC SOP Method #L01/1, US EPA SW-846 Method 7420

Shaded cells indicate concentrations are in excess of the stated action levels.

**TABLE 3
ASBESTOS CONTAINING MATERIALS SAMPLE LOG AND ANALYTICAL RESULTS**

SAMPLE ID	SAMPLE LOCATION	MATERIAL DESCRIPTION	ANALYSIS RESULTS	Condition Friable? Yes/No	Hazard Rating
BNSF SAMPLING					
01C	NE CONCRETE WALL	CONCRETE	ND	GOOD	Low
02EF	NE END OF BRIDGE	EXPANSION JOINT FELT	ND	GOOD	Low
03C	SW CONCRETE WALL	Concrete	ND	GOOD	Low
04S	SHIM - SOUTH END	SHIM GRAY/BROWN	YES - 85%	GOOD	Low
05S	SHIM - SOUTH END	SHIM GRAY/BROWN	YES - 85%	GOOD	Low
06C	NW CONCRETE WALL	CONCRETE	ND	GOOD	Low
07EF	NW END OF BRIDGE	EXPANSION JOINT FELT	ND	GOOD	Low
08C	NW CONCRETE WALL	CONCRETE	ND	GOOD	Low
09S	SHIM - NORTH END	SHIM GRAY/BROWN	YES - 85%	GOOD	Low
10S	SHIM - NORTH END	SHIM GRAY/BROWN	YES - 85%	GOOD	Low

*THE LABORATORY REPORT SHOWS THIS SAMPLE AS 13C, IT IS A SHIM SAMPLE AND THEREFORE 13S.

A=Asphalt Sample; C=Concrete Sample; EF=Expansion Joint Sample; PW=PIPE WRAP; ND=No asbestos detected; N/A=Not Applicable.

Analytical documentation is in Appendix B. Asbestos sample locations are depicted on the attached Figures.

Bulk sample analyses completed by polarized light microscopy (PLM)

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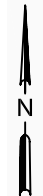
FIGURES



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CALIFORNIA

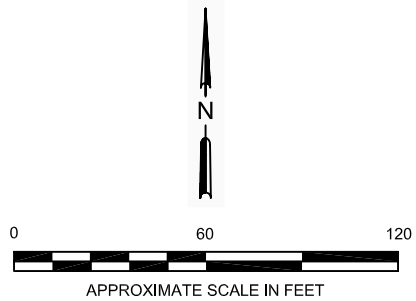
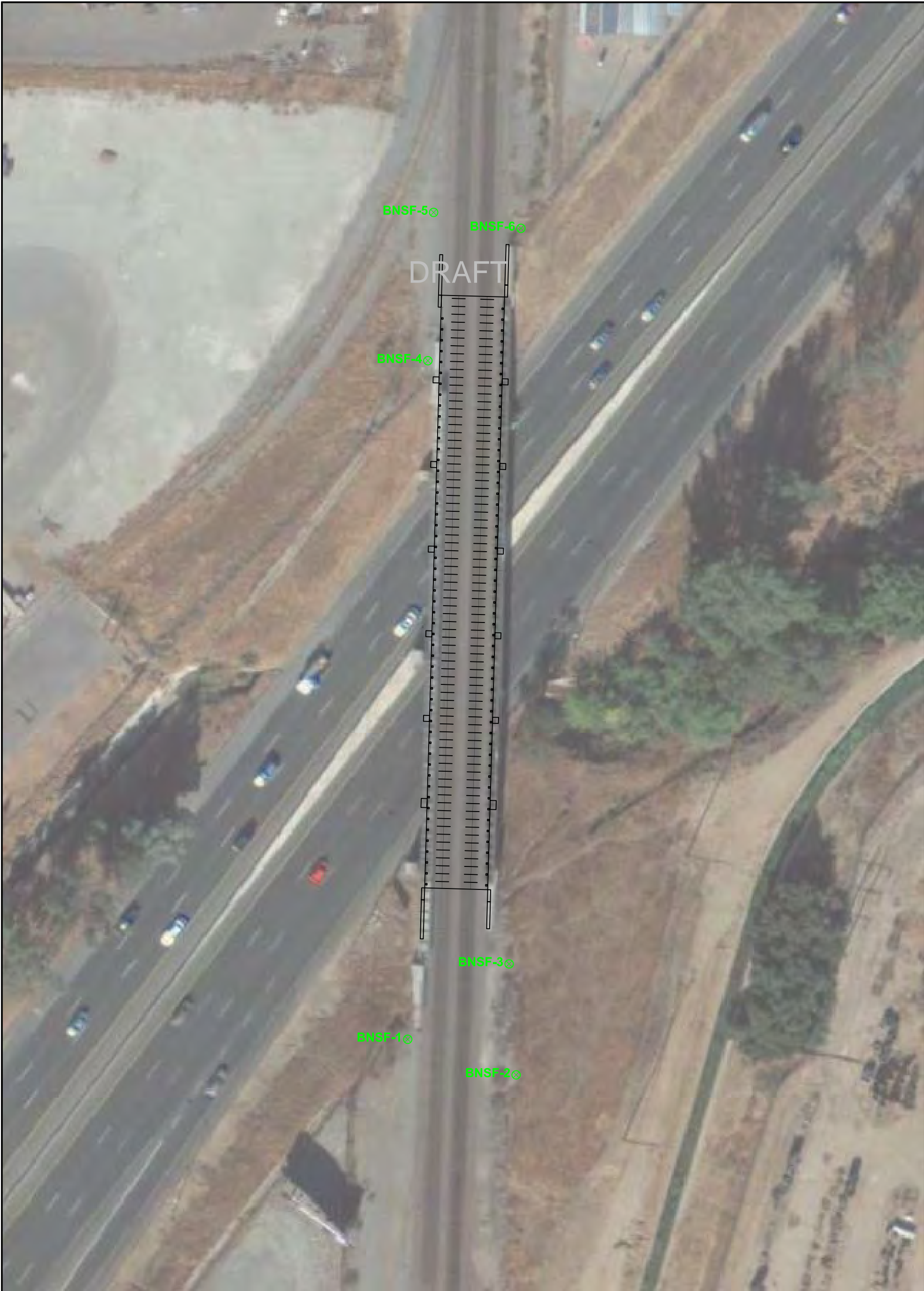


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	JOB NUMBER: 185802086	DRAWN BY: JCR	CHECKED BY: AP	APPROVED BY: AP	DATE: 10/5/10


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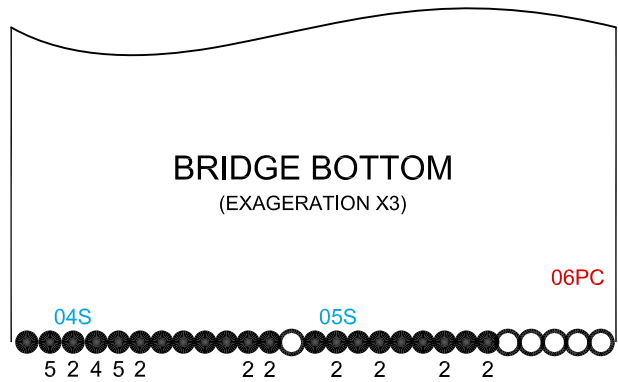
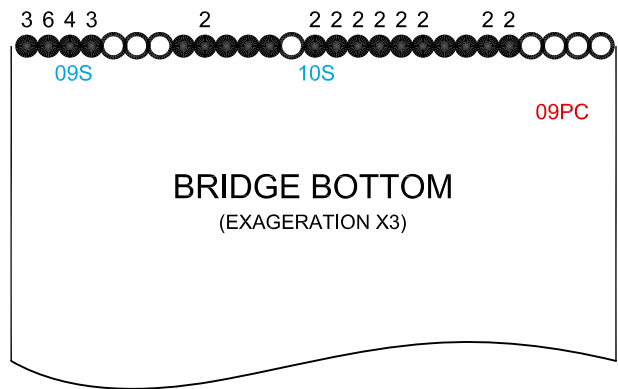
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⊗ SOIL SAMPLE LOCATIONS

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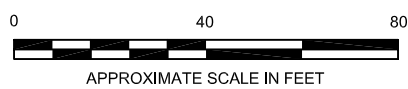
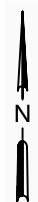
 25864-F BUSINESS CENTER DRIVE REDLANDS, CALIFORNIA 92374 PHONE: (909) 335-6116 FAX: (909) 335-6120	PREPARED FOR: AECOM / LAN ENGINEERING CORP. I-215 BI-COUNTY HOV PROJECT BNSF BRIDGE COLTON, CALIFORNIA		SOIL SAMPLE LOCATIONS BNSF RAILWAY OVERCROSSING BRIDGE WITH INTERSTATE 215		FIGURE: 2
	JOB NUMBER: 185802086	DRAWN BY: JCR	CHECKED BY: AP	APPROVED BY: AP	DATE: 10/6/10

FILEPATH: \\CADD\PROJECTS\2010\CalTrans\AECOM-LAN\Colton-BNSF.dwg | resendiz | Oct 18, 2010 at 15:31 | Layout: 3-S_BNSF




LEGEND

- SHIMS
- SUPPORT BEAMS (NO SHIMS)
- SAMPLES**
 - PC -PAINT CHIP
 - C -CONCRETE
 - EF -EXPANSION JOINT FELT
 - S -SHIM
 - PW -PIPE WRAP (INSULATION)



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 25864-F BUSINESS CENTER DRIVE REDLANDS, CALIFORNIA 92374 PHONE: (909) 335-6116 FAX: (909) 335-6120	PREPARED FOR: AECOM / LAN ENGINEERING CORP. I-215 BI-COUNTY HOV PROJECT BNSF BRIDGE COLTON, CALIFORNIA	LBP & ACM SAMPLE LOCATIONS BNSF RAILWAY OVERCROSSING BRIDGE WITH INTERSTATE 215		FIGURE: 3
	JOB NUMBER: 185802086	DRAWN BY: JCR	CHECKED BY: AP	APPROVED BY: AP

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APPENDIX A
ANALYTICAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS



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ELAP#s	2746
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	2747
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CASE NARRATIVE

Authorized Signature Name / Title (print)	Cynthia Olson, Division Manager
Signature / Date	 Cynthia Olson, Division Manager 09/16/2010 14:15:31
Laboratory Job No. (Certificate of Analysis No.)	1009-00055
Project Name / No.	AECOM-I 215 HOV PROJECT 185802086
Dates Sampled (from/to)	09/02/10 To 09/02/10
Dates Received (from/to)	09/02/10 To 09/02/10
Dates Reported (from/to)	09/16/10 To 9/16/2010
Chains of Custody Received	Yes

Comments:

Subcontracting

Organic Analyses
 12 EPA 8270 sample(s) reported by technician CEL were contracted to CALSCIENCE ENV LABORATORY

All results for sub-contracted analyses may be sent separately

Inorganic Analyses
 No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
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CERTIFICATE OF ANALYSIS

1009-00055

STANTEC
ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 BNSF-1 0.5-1'							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	12.8		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	56.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	10.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	5.22		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	30.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	59.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	9.47		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	24.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	123		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	1.30		mg/Kg	EPA 7471A	10	0.200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	84		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	86		%REC	EPA 8081A/8082		50-150	09/08/10	CEO

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1009-0055

STANTEC
 ANNE PEREZ
 25864-F BUSINESS CENTER DRIVE
 REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 BNSF-1 1.5-2'				Date & Time Sampled:		09/02/10	@ 10:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	2.77		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	73.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	9.59		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.26		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	9.63		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.97		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	7.57		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	26.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	30.5		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0378		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 003 BNSF-2 0.5-1'				Date & Time Sampled:		09/02/10	@ 10:05	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	22.4		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	55.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	13.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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STANTEC
ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 BNSF-2 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:05	
.....continued								
Cobalt	5.87		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	36.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	25.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	13.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	25.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	50.4		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0396		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	73		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	70		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 004 BNSF-2 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:15	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	16.6		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	47.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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1009-00055

STANTEC
 ANNE PEREZ
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 REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 BNSF-2 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:15	
.....continued								
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	27.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	5.12		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	19.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	15.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	19.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	22.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	32.1		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0237		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 005 BNSF-3 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:15	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	7.11		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	43.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	9.46		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	4.40		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	15.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	15.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	7.50		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB

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 Invoice No. 61331
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 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 BNSF-3 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:15	
.....continued								
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	20.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	32.1		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0228		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	81		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	76		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 006 BNSF-3 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:30	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	15.6		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	49.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	9.06		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	5.04		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	16.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	13.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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1009-00055

STANTEC
 ANNE PEREZ
 25864-F BUSINESS CENTER DRIVE
 REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 BNSF-3 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:30	
.....continued								
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	8.52		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	23.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	39.0		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0257		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO

Sample: 007 BNSF-4 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:20	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	12.4		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	53.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	27.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.17		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	22.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	12.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	16.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	24.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	33.4		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0548		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								

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STANTEC
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25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
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 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 BNSF-4 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:20	
.....continued								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	85		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	101		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 008 BNSF-4 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:30	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	1.33		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	13.3		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	59.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	28.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.58		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	17.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	8.80		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	16.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	28.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 BNSF-4 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:30	
.....continued								
Zinc	34.7		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0682		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 009 BNSF-5 0.5-1'							Date & Time Sampled: 09/02/10 @ 11:15	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	1.11		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	14.0		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	22.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	5.90		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	2.84		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	26.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	11.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	5.81		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	12.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	20.1		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0390		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO

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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 BNSF-5 0.5-1'							Date & Time Sampled: 09/02/10 @ 11:15	
.....continued								
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	66		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	84		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 010 BNSF-5 1.5-2'							Date & Time Sampled: 09/02/10 @ 11:30	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	1.34		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	61.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	9.48		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.07		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	9.04		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	3.47		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	7.67		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	24.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	27.9		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 011 BNSF-6 0.5-1'							Date & Time Sampled: 09/02/10 @ 11:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								



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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 011 BNSF-6 0.5-1'							Date & Time Sampled: 09/02/10 @ 11:45	
.....continued								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	2.67		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	4.42		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	58.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	0.584		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	34.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	5.37		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	142		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	46.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	4.76		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	17.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	25.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	71.7		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0432		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	77		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	78		%REC	EPA 8081A/8082		50-150	09/08/10	CEO



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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 012 BNSF-6 1.5-2'							Date & Time Sampled: 09/02/10 @ 12:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	2.55		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	2.52		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	54.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	10.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.19		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	19.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	28.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	9.65		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	26.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	29.8		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO

Sample: 013 EB-1							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1		09/09/10	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Barium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB

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1009-00055

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REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 EB-1							Date & Time Sampled: 09/02/10 @ 9:45	
.....continued								
Copper	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Lead	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Silver	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Thallium	<0.100		mg/L	EPA 6010B	1	0.100	09/09/10	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1	0.0400	09/09/10	TLB
Mercury	<0.000200		mg/L	EPA 7471A	1	0.000200	09/15/10	AXO
Sample: 014 EB-2							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1		09/09/10	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Barium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Copper	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Lead	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Silver	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Thallium	<0.100		mg/L	EPA 6010B	1	0.100	09/09/10	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1	0.0400	09/09/10	TLB

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 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 EB-2							Date & Time Sampled: 09/02/10 @ 9:45	
.....continued								
Mercury	<0.000200		mg/L	EPA 7471A	1	0.000200	09/15/10	AXO
Sample: 015 UP-1 0.5-1'							Date & Time Sampled: 09/02/10 @ 13:55	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	8.05		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	66.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	14.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	7.52		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	13.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	497		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	11.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	30.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	97.0		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO

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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 UP-1 0.5-1'							Date & Time Sampled: 09/02/10 @ 13:55	
.....continued								
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	74		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	76		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 016 UP-1 1.5-2'							Date & Time Sampled: 09/02/10 @ 14:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	3.41		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	66.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	13.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	7.36		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	12.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.99		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	10.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	30.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	33.1		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 017 UP-2 0.5-1'							Date & Time Sampled: 09/02/10 @ 14:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 017 UP-2 0.5-1'							Date & Time Sampled: 09/02/10 @ 14:00	
.....continued								
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	3.19		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	65.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	12.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.81		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	11.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.66		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	10.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	29.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	31.6		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0722		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	52		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	77		%REC	EPA 8081A/8082		50-150	09/08/10	CEO

Sample: 018 **UP-2 1.5-2'**

Date & Time Sampled: 09/02/10 @ 14:20

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 UP-2 1.5-2'							Date & Time Sampled: 09/02/10 @ 14:20	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	8.71		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	77.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	18.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	7.69		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	16.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	12.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	14.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	32.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	61.6		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0343		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO

Sample: 019 UP-3 0.5-1'							Date & Time Sampled: 09/02/10 @ 14:10	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	2.93		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	72.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	13.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	7.41		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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 WATER · AIR · SOIL · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS · COSMETICS

CERTIFICATE OF ANALYSIS

1009-00055

STANTEC
ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 UP-3 0.5-1'							Date & Time Sampled: 09/02/10 @ 14:10	
.....continued								
Copper	12.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.33		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	11.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	31.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	31.5		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	45		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	85		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 020 UP-3 1.5-2'							Date & Time Sampled: 09/02/10 @ 14:15	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	2.02		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	65.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	0.510		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

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FDA#	2030513
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REDLANDS, CA 92374-4515

Date Reported 09/16/10
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 Invoice No. 61331
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 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 020 UP-3 1.5-2'							Date & Time Sampled: 09/02/10 @ 14:15	
.....continued								
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	15.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	8.12		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	13.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.73		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	11.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	34.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	33.9		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 021 UP-4 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:50	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Arsenic	2.84		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Barium	93.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Chromium	13.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cobalt	7.04		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Copper	12.9		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Lead	8.95		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Nickel	10.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB

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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 021 UP-4 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:50	
.....continued								
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Vanadium	29.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Zinc	33.5		mg/Kg	EPA 6010B	1	5.00	09/09/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	36		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	67		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 022 UP-4 1.5-2'							Date & Time Sampled: 09/02/10 @ 13:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Arsenic	5.44		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Barium	80.4		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Chromium	11.8		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cobalt	6.33		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Copper	12.0		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Lead	7.63		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 022 UP-4 1.5-2'							Date & Time Sampled: 09/02/10 @ 13:00	
.....continued								
Nickel	9.13		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Vanadium	26.6		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Zinc	35.5		mg/Kg	EPA 6010B	1	5.00	09/09/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
Sample: 023 UP-5 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:30	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	1.27		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Arsenic	11.7		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Barium	91.5		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Chromium	14.6		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cobalt	7.57		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Copper	20.2		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Lead	17.9		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Nickel	11.3		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Vanadium	33.4		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Zinc	77.1		mg/Kg	EPA 6010B	1	5.00	09/09/10	TLB
Mercury	0.0452		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 UP-5 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:30	
.....continued								
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	71		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	90		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 024 UP-5 1.5-2'							Date & Time Sampled: 09/02/10 @ 12:40	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Arsenic	4.03		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Barium	92.0		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Chromium	14.0		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cobalt	7.47		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Copper	17.5		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Lead	11.2		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Nickel	11.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Vanadium	30.5		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Zinc	54.9		mg/Kg	EPA 6010B	1	5.00	09/09/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 024 UP-5 1.5-2'							Date & Time Sampled: 09/02/10 @ 12:40	
.....continued								
Mercury	0.0346		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
Sample: 025 UP-6 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:55	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	3.20		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	107		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	0.522		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	17.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	8.77		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	15.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.63		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	12.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	38.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	36.0		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO

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CERTIFICATE OF ANALYSIS

1009-00055

STANTEC
ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 UP-6 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:55	
.....continued								
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	59		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	75		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 026 UP-6 1.5-2'							Date & Time Sampled: 09/02/10 @ 13:05	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	3.08		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	73.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	15.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	8.14		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	13.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.16		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	11.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	34.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	33.0		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
Sample: 027 EB-3							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1		09/09/10	TLB

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MEMBER





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CERTIFICATE OF ANALYSIS

1009-0055

STANTEC
 ANNE PEREZ
 25864-F BUSINESS CENTER DRIVE
 REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 027 EB-3							Date & Time Sampled: 09/02/10 @ 9:45	
.....continued								
Antimony	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Barium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Copper	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Lead	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Silver	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Thallium	<0.100		mg/L	EPA 6010B	1	0.100	09/09/10	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1	0.0400	09/09/10	TLB
Mercury	<0.000200		mg/L	EPA 7471A	1	0.000200	09/15/10	AXO

Sample: 028 EB-4							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1		09/09/10	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Barium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Copper	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Lead	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB

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CERTIFICATE OF ANALYSIS

1009-0055

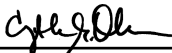
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ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 028 EB-4							Date & Time Sampled: 09/02/10 @ 9:45	
.....continued								
Molybdenum	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Silver	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Thallium	<0.100		mg/L	EPA 6010B	1	0.100	09/09/10	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1	0.0400	09/09/10	TLB
Mercury	<0.000200		mg/L	EPA 7471A	1	0.000200	09/15/10	AXO

Respectfully Submitted:



 Cynthia Olson- Division Manager

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
 B1 = BOD dilution water is over specifications . The reported result may be biased high.
 D = Surrogate recoveries are not calculated due to sample dilution.
 E = Estimated value; Value exceeds calibration level of instrument.
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference.
 J = Analyte concentration detected between RL and MDL.
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
 S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
 RL = Reporting Limit, Adjusted by DF
 MDL = Method Detection Limit, Adjusted by DF
 Qual = Qualifier
 Tech = Technician

As regulatory limits change frequently, Microbac advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Cynthia Olson, Division Manager at 951.779.0310. You may also contact both James Nokes, President and Robert Morgan, Chief Operating Officer at president@microbac.com.



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QUALITY CONTROL DATA REPORT

STANTEC
 REDLANDS, CA 92374-4515

1009-00055

Date Reported **09/16/2010**
 Date Received **09/02/2010**
 Date Sampled **09/02/2010**
 Invoice No. **61331**
 Customer # **1003**
 Customer P.O. **185802086**

Project: AECOM-I 215 HOV PROJECT

Method # EPA 6010B

QC Reference # 24791 Date Analyzed: 9/9/2010 Technician: TLB

Samples 013 014 027 028

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	103	109	5.5	98	105	6.9
Arsenic	100	105	5.4	104	110	5.9
Barium	104	110	4.7	104	110	5.5
Beryllium	100	105	5.1	96	108	11.3
Cadmium	103	108	4.8	97	101	3.8
Chromium	100	105	4.9	94	99	5.5
Cobalt	104	110	5.8	98	103	4.3
Copper	104	108	3.8	101	107	5.7
Lead	99	104	5.3	93	99	6.4
Molybdenum	104	111	6.0	110	117	5.5
Nickel	106	112	5.2	109	115	5.1
Selenium	98	104	5.5	100	103	3.3
Silver	96	103	6.6	94	99	5.5
Thallium	98	103	5.0	88	96	9.2
Vanadium	101	106	4.6	98	104	6.1
Zinc	110	112	1.6	108	112	3.5

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 25	0 - 25
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

QC Reference # 24836 Date Analyzed: 9/10/2010 Technician: TLB

Samples 021 022 023 024 025 026

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	81	92	13.3	88	78	12.3
Arsenic	92	107	14.8	101	88	13.4
Barium	95	109	14.3	167	146	13.6
Beryllium	85	104	19.4	89	85	5.1
Cadmium	89	103	14.1	89	84	6.3
Chromium	85	99	14.7	99	90	9.4
Cobalt	90	104	14.6	96	84	12.5
Copper	81	94	14.7	100	92	7.6
Lead	86	100	14.8	95	84	11.7
Molybdenum	89	103	14.0	92	82	10.9
Nickel	90	104	14.7	96	88	8.8
Selenium	86	99	13.2	86	77	10.5
Silver	76	82	7.4	76	71	6.3
Thallium	85	98	14.3	83	75	10.1
Vanadium	85	99	14.9	122	109	10.6
Zinc	92	106	14.7	143	127	12.2

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

QC Reference # 24861 Date Analyzed: 9/10/2010 Technician: TLB

Samples 001 002 003 004 005 006 007 008 009 010 011 012 015 016 017 018 019 020



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QUALITY CONTROL DATA REPORT

STANTEC

1009-00055

Date Reported 09/16/2010
 Date Received 09/02/2010
 Date Sampled 09/02/2010

Project: AECOM-I 215 HOV PROJECT

Method #		EPA 6010B																					
QC Reference #	24861	Date Analyzed:	9/10/2010																		Technician:	TLB	
Samples	001 002 003 004 005 006 007 008 009 010 011 012 015 016 017 018 019 020																						
Results	LCS %REC	LCS %DUP	LCS %RPD																		Control Ranges	LCS %REC	LCS %RPD
Antimony	94	94	0.1																		75 - 125	0 - 20	
Arsenic	104	101	2.5																		75 - 125	0 - 20	
Barium	100	98	2.2																		75 - 125	0 - 20	
Beryllium	98	97	1.4																		75 - 125	0 - 20	
Cadmium	101	99	2.1																		75 - 125	0 - 20	
Chromium	98	97	1.6																		75 - 125	0 - 20	
Cobalt	98	97	1.6																		75 - 125	0 - 20	
Copper	96	94	1.9																		75 - 125	0 - 20	
Lead	94	93	1.2																		75 - 125	0 - 20	
Molybdenum	98	97	0.9																		75 - 125	0 - 20	
Nickel	100	98	1.3																		75 - 125	0 - 20	
Selenium	106	105	0.8																		75 - 125	0 - 20	
Silver	77	75	1.9																		75 - 125	0 - 20	
Thallium	95	94	0.8																		75 - 125	0 - 20	
Vanadium	98	96	1.9																		75 - 125	0 - 20	
Zinc	104	102	2.0																		75 - 125	0 - 20	

Method #		EPA 7471A																						
QC Reference #	24776	Date Analyzed:	9/9/2010																		Technician:	AMJ		
Samples	021 022 023 024 025 026																							
Results	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD															Control Ranges	LCS %REC	LCS %RPD	SPIKE %RPD
Mercury	106	100	5	115	117	2															75 - 125	0 - 25	0 - 25	

QC Reference #		24778																			
Date Analyzed:	9/10/2010																		Technician:	AXO	
Samples	001 002 003 004 005 006 007 008 009 010 011 012 015 016 017 018 019 020																				
Results	LCS %DUP	SPIKE %RPD																		Control Ranges	SPIKE %RPD
Mercury	84	5.0																		0 - 25	

QC Reference #		24964																						
Date Analyzed:	9/15/2010																		Technician:	AXO				
Samples	013 014 027 028																							
Results	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD															Control Ranges	LCS %REC	LCS %RPD	SPIKE %RPD
Mercury	102	102	6	73	76	5															70 - 130	0 - 25	0 - 25	

Method #		EPA 8081A/8082																				
QC Reference #	24829	Date Analyzed:	9/8/2010																		Technician:	CEO



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QUALITY CONTROL DATA REPORT

STANTEC

1009-00055

Date Reported 09/16/2010
 Date Received 09/02/2010
 Date Sampled 09/02/2010

Project: AECOM-I 215 HOV PROJECT

Method #	EPA 8081A/8082											
QC Reference #	24829	Date Analyzed: 9/8/2010					Technician: CEO					
Samples	001	003	005	007	009	011	015	017	019	021	023	025
Results							Control Ranges					
	BLKSRR%R						BLKSRR%REC					
	EC											
Decachlorobiphenyl	92						50 - 150					
Tetrachloro-m-xylene	84						50 - 150					

Method #	EPA 8082											
QC Reference #	24829	Date Analyzed: 9/8/2010					Technician: CEO					
Samples	001	003	005	007	009	011	015	017	019	021	023	025
Results							Control Ranges					
	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	LCS %RPD	SPIKE %RPD			
Aroclor 1016	93	90	2.3	99	92	8.2	70 - 130	0 - 25	0 - 25			

Method blank results

Ref	Test Name	Result	Qualif	Units	Ref	Test Name	Result	Qualif	Units
	Arsenic	0.00616		mg/L					
	Copper	0.00409		mg/L					
	Molybdenum	0.00476		mg/L					
24836	Antimony	0.508		mg/Kg					
	Nickel	0.297		mg/Kg					

Respectfully Submitted:

Cynthia Olson, Division Manager

For any feedback concerning our services, please contact Cynthia Olson, Division Manager at 951.779.0310. You may also contact both James Nokes, President and Robert Morgan, Chief Operating Officer at president@microbac.com.



DRAFT



September 13, 2010

Marilu Escher
Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Subject: **Calscience Work Order No.: 10-09-0402**
Client Reference: AECOM-I 215 HOV Project / 1009-00055

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/7/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak", is written over a light gray rectangular background.

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

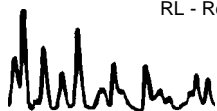
Page 1 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-1 0.5-1'	10-09-0402-1-A	09/02/10 09:45	Solid	GC/MS SS	09/08/10	09/10/10 19:50	100908L06

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	1.0	2		2,4-Dimethylphenol	ND	1.0	2	
Acenaphthylene	ND	1.0	2		4,6-Dinitro-2-Methylphenol	ND	5.0	2	
Aniline	ND	1.0	2		2,4-Dinitrophenol	ND	5.0	2	
Anthracene	ND	1.0	2		2,4-Dinitrotoluene	ND	1.0	2	
Azobenzene	ND	1.0	2		2,6-Dinitrotoluene	ND	1.0	2	
Benzidine	ND	20	2		Fluoranthene	ND	1.0	2	
Benzo (a) Anthracene	ND	1.0	2		Fluorene	ND	1.0	2	
Benzo (a) Pyrene	ND	1.0	2		Hexachloro-1,3-Butadiene	ND	1.0	2	
Benzo (b) Fluoranthene	ND	1.0	2		Hexachlorobenzene	ND	1.0	2	
Benzo (g,h,i) Perylene	ND	1.0	2		Hexachlorocyclopentadiene	ND	5.0	2	
Benzo (k) Fluoranthene	ND	1.0	2		Hexachloroethane	ND	1.0	2	
Benzoic Acid	ND	5.0	2		Indeno (1,2,3-c,d) Pyrene	ND	1.0	2	
Benzyl Alcohol	ND	1.0	2		Isophorone	ND	1.0	2	
Bis(2-Chloroethoxy) Methane	ND	1.0	2		2-Methylnaphthalene	ND	1.0	2	
Bis(2-Chloroethyl) Ether	ND	5.0	2		1-Methylnaphthalene	ND	1.0	2	
Bis(2-Chloroisopropyl) Ether	ND	1.0	2		2-Methylphenol	ND	1.0	2	
Bis(2-Ethylhexyl) Phthalate	ND	1.0	2		3/4-Methylphenol	ND	1.0	2	
4-Bromophenyl-Phenyl Ether	ND	1.0	2		N-Nitroso-di-n-propylamine	ND	1.0	2	
Butyl Benzyl Phthalate	ND	1.0	2		N-Nitrosodimethylamine	ND	1.0	2	
4-Chloro-3-Methylphenol	ND	1.0	2		N-Nitrosodiphenylamine	ND	1.0	2	
4-Chloroaniline	ND	1.0	2		Naphthalene	ND	1.0	2	
2-Chloronaphthalene	ND	1.0	2		4-Nitroaniline	ND	1.0	2	
2-Chlorophenol	ND	1.0	2		3-Nitroaniline	ND	1.0	2	
4-Chlorophenyl-Phenyl Ether	ND	1.0	2		2-Nitroaniline	ND	1.0	2	
Chrysene	ND	1.0	2		Nitrobenzene	ND	5.0	2	
Di-n-Butyl Phthalate	ND	1.0	2		4-Nitrophenol	ND	1.0	2	
Di-n-Octyl Phthalate	ND	1.0	2		2-Nitrophenol	ND	1.0	2	
Dibenz (a,h) Anthracene	ND	1.0	2		Pentachlorophenol	ND	5.0	2	
Dibenzofuran	ND	1.0	2		Phenanthrene	ND	1.0	2	
1,2-Dichlorobenzene	ND	1.0	2		Phenol	ND	1.0	2	
1,3-Dichlorobenzene	ND	1.0	2		Pyrene	ND	1.0	2	
1,4-Dichlorobenzene	ND	1.0	2		Pyridine	ND	1.0	2	
3,3'-Dichlorobenzidine	ND	20	2		1,2,4-Trichlorobenzene	ND	1.0	2	
2,4-Dichlorophenol	ND	1.0	2		2,4,6-Trichlorophenol	ND	1.0	2	
Diethyl Phthalate	ND	1.0	2		2,4,5-Trichlorophenol	ND	1.0	2	
Dimethyl Phthalate	ND	1.0	2						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	79	38-134			2-Fluorophenol	72	42-120		
Nitrobenzene-d5	68	42-150			p-Terphenyl-d14	84	35-167		
Phenol-d6	71	46-118			2,4,6-Tribromophenol	74	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

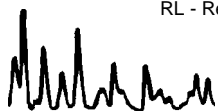
Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-2 0.5-1'	10-09-0402-2-A	09/02/10 10:05	Solid	GC/MS SS	09/08/10	09/10/10 19:50	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	65	38-134			2-Fluorophenol	79	42-120		
Nitrobenzene-d5	73	42-150			p-Terphenyl-d14	73	35-167		
Phenol-d6	89	46-118			2,4,6-Tribromophenol	66	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg


Project: AECOM-I 215 HOV Project / 1009-00055

Page 3 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-3 0.5-1'	10-09-0402-3-A	09/02/10 10:15	Solid	GC/MS SS	09/08/10	09/10/10 20:16	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	57	38-134			2-Fluorophenol	68	42-120		
Nitrobenzene-d5	63	42-150			p-Terphenyl-d14	63	35-167		
Phenol-d6	77	46-118			2,4,6-Tribromophenol	54	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

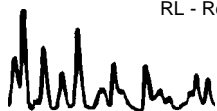
Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-4 0.5-1'	10-09-0402-4-A	09/02/10 10:20	Solid	GC/MS SS	09/08/10	09/10/10 20:43	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	77	38-134			2-Fluorophenol	90	42-120		
Nitrobenzene-d5	85	42-150			p-Terphenyl-d14	96	35-167		
Phenol-d6	101	46-118			2,4,6-Tribromophenol	77	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-5 0.5-1'	10-09-0402-5-A	09/02/10 11:15	Solid	GC/MS SS	09/08/10	09/10/10 21:36	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	69	38-134			2-Fluorophenol	81	42-120		
Nitrobenzene-d5	75	42-150			p-Terphenyl-d14	90	35-167		
Phenol-d6	91	46-118			2,4,6-Tribromophenol	67	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

Page 6 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-6 0.5-1'	10-09-0402-6-A	09/02/10 11:45	Solid	GC/MS SS	09/08/10	09/10/10 20:17	100908L06

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	1.0	2		2,4-Dimethylphenol	ND	1.0	2	
Acenaphthylene	ND	1.0	2		4,6-Dinitro-2-Methylphenol	ND	5.0	2	
Aniline	ND	1.0	2		2,4-Dinitrophenol	ND	5.0	2	
Anthracene	ND	1.0	2		2,4-Dinitrotoluene	ND	1.0	2	
Azobenzene	ND	1.0	2		2,6-Dinitrotoluene	ND	1.0	2	
Benzidine	ND	20	2		Fluoranthene	ND	1.0	2	
Benzo (a) Anthracene	ND	1.0	2		Fluorene	ND	1.0	2	
Benzo (a) Pyrene	ND	1.0	2		Hexachloro-1,3-Butadiene	ND	1.0	2	
Benzo (b) Fluoranthene	ND	1.0	2		Hexachlorobenzene	ND	1.0	2	
Benzo (g,h,i) Perylene	ND	1.0	2		Hexachlorocyclopentadiene	ND	5.0	2	
Benzo (k) Fluoranthene	ND	1.0	2		Hexachloroethane	ND	1.0	2	
Benzoic Acid	ND	5.0	2		Indeno (1,2,3-c,d) Pyrene	ND	1.0	2	
Benzyl Alcohol	ND	1.0	2		Isophorone	ND	1.0	2	
Bis(2-Chloroethoxy) Methane	ND	1.0	2		2-Methylnaphthalene	ND	1.0	2	
Bis(2-Chloroethyl) Ether	ND	5.0	2		1-Methylnaphthalene	ND	1.0	2	
Bis(2-Chloroisopropyl) Ether	ND	1.0	2		2-Methylphenol	ND	1.0	2	
Bis(2-Ethylhexyl) Phthalate	ND	1.0	2		3/4-Methylphenol	ND	1.0	2	
4-Bromophenyl-Phenyl Ether	ND	1.0	2		N-Nitroso-di-n-propylamine	ND	1.0	2	
Butyl Benzyl Phthalate	ND	1.0	2		N-Nitrosodimethylamine	ND	1.0	2	
4-Chloro-3-Methylphenol	ND	1.0	2		N-Nitrosodiphenylamine	ND	1.0	2	
4-Chloroaniline	ND	1.0	2		Naphthalene	ND	1.0	2	
2-Chloronaphthalene	ND	1.0	2		4-Nitroaniline	ND	1.0	2	
2-Chlorophenol	ND	1.0	2		3-Nitroaniline	ND	1.0	2	
4-Chlorophenyl-Phenyl Ether	ND	1.0	2		2-Nitroaniline	ND	1.0	2	
Chrysene	ND	1.0	2		Nitrobenzene	ND	5.0	2	
Di-n-Butyl Phthalate	ND	1.0	2		4-Nitrophenol	ND	1.0	2	
Di-n-Octyl Phthalate	ND	1.0	2		2-Nitrophenol	ND	1.0	2	
Dibenz (a,h) Anthracene	ND	1.0	2		Pentachlorophenol	ND	5.0	2	
Dibenzofuran	ND	1.0	2		Phenanthrene	ND	1.0	2	
1,2-Dichlorobenzene	ND	1.0	2		Phenol	ND	1.0	2	
1,3-Dichlorobenzene	ND	1.0	2		Pyrene	ND	1.0	2	
1,4-Dichlorobenzene	ND	1.0	2		Pyridine	ND	1.0	2	
3,3'-Dichlorobenzidine	ND	20	2		1,2,4-Trichlorobenzene	ND	1.0	2	
2,4-Dichlorophenol	ND	1.0	2		2,4,6-Trichlorophenol	ND	1.0	2	
Diethyl Phthalate	ND	1.0	2		2,4,5-Trichlorophenol	ND	1.0	2	
Dimethyl Phthalate	ND	1.0	2						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	78	38-134			2-Fluorophenol	71	42-120		
Nitrobenzene-d5	69	42-150			p-Terphenyl-d14	90	35-167		
Phenol-d6	70	46-118			2,4,6-Tribromophenol	80	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

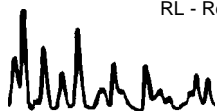
Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-1 0.5-1'	10-09-0402-7-A	09/02/10 13:55	Solid	GC/MS SS	09/08/10	09/10/10 18:03	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	73	38-134			2-Fluorophenol	83	42-120		
Nitrobenzene-d5	81	42-150			p-Terphenyl-d14	81	35-167		
Phenol-d6	94	46-118			2,4,6-Tribromophenol	68	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

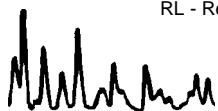
Project: AECOM-I 215 HOV Project / 1009-00055

Page 8 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-2 0.5-1'	10-09-0402-8-A	09/02/10 14:00	Solid	GC/MS SS	09/08/10	09/10/10 18:30	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	69	38-134			2-Fluorophenol	82	42-120		
Nitrobenzene-d5	77	42-150			p-Terphenyl-d14	78	35-167		
Phenol-d6	95	46-118			2,4,6-Tribromophenol	62	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

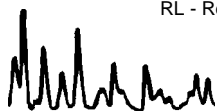
Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-3 0.5-1'	10-09-0402-9-A	09/02/10 14:10	Solid	GC/MS SS	09/08/10	09/10/10 18:56	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	73	38-134			2-Fluorophenol	84	42-120		
Nitrobenzene-d5	80	42-150			p-Terphenyl-d14	82	35-167		
Phenol-d6	97	46-118			2,4,6-Tribromophenol	65	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-4 0.5-1'	10-09-0402-10-A	09/02/10 12:50	Solid	GC/MS SS	09/08/10	09/10/10 19:23	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	74	38-134			2-Fluorophenol	86	42-120		
Nitrobenzene-d5	82	42-150			p-Terphenyl-d14	85	35-167		
Phenol-d6	96	46-118			2,4,6-Tribromophenol	69	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg


Project: AECOM-I 215 HOV Project / 1009-00055

Page 11 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-5 0.5-1'	10-09-0402-11-A	09/02/10 12:30	Solid	GC/MS SS	09/08/10	09/10/10 21:09	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	75	38-134			2-Fluorophenol	85	42-120		
Nitrobenzene-d5	81	42-150			p-Terphenyl-d14	91	35-167		
Phenol-d6	95	46-118			2,4,6-Tribromophenol	67	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-6 0.5-1'	10-09-0402-12-A	09/02/10 12:55	Solid	GC/MS SS	09/08/10	09/11/10 12:28	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	73	38-134			2-Fluorophenol	84	42-120		
Nitrobenzene-d5	81	42-150			p-Terphenyl-d14	82	35-167		
Phenol-d6	95	46-118			2,4,6-Tribromophenol	64	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

Page 13 of 13

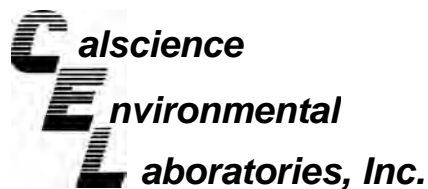
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-549-1,489	N/A	Solid	GC/MS SS	09/08/10	09/10/10 13:10	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	66	38-134			2-Fluorophenol	74	42-120		
Nitrobenzene-d5	69	42-150			p-Terphenyl-d14	70	35-167		
Phenol-d6	81	46-118			2,4,6-Tribromophenol	60	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



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Quality Control - Spike/Spike Duplicate



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

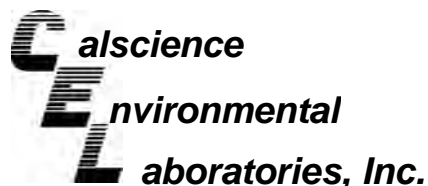
Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C

Project AECOM-I 215 HOV Project / 1009-00055

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-09-0331-1	Solid	GC/MS SS	09/08/10	09/10/10	100908S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	159	157	49-133	2	0-18	3
Acenaphthylene	167	165	50-150	2	0-20	3
Butyl Benzyl Phthalate	208	202	50-150	3	0-20	3
4-Chloro-3-Methylphenol	138	141	50-128	2	0-17	3
2-Chlorophenol	140	131	57-111	6	0-17	3
1,4-Dichlorobenzene	138	136	49-127	1	0-20	3
Dimethyl Phthalate	150	149	50-150	1	0-20	
2,4-Dinitrotoluene	124	117	50-128	6	0-18	
Fluorene	167	165	50-150	1	0-20	3
N-Nitroso-di-n-propylamine	154	146	54-144	5	0-17	3
Naphthalene	151	147	50-150	3	0-20	3
4-Nitrophenol	46	48	30-144	4	0-21	
Pentachlorophenol	0	0	29-113	0	0-22	3
Phenol	150	143	57-123	5	0-16	3
Pyrene	164	158	47-149	4	0-20	3
1,2,4-Trichlorobenzene	142	139	42-132	2	0-20	3

RPD - Relative Percent Difference , CL - Control Limit



DRAFT

Quality Control - LCS/LCS Duplicate



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: N/A
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C

Project: AECOM-I 215 HOV Project / 1009-00055

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-549-1,489	Solid	GC/MS SS	09/08/10	09/10/10	100908L06		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	73	73	59-125	48-136	0	0-15	
Acenaphthylene	77	76	33-145	14-164	2	0-20	
Butyl Benzyl Phthalate	77	75	0-152	0-177	2	0-20	
4-Chloro-3-Methylphenol	79	79	61-121	51-131	1	0-14	
2-Chlorophenol	78	79	60-114	51-123	1	0-15	
1,4-Dichlorobenzene	82	82	61-121	51-131	0	0-21	
Dimethyl Phthalate	70	70	0-112	0-131	0	0-20	
2,4-Dinitrotoluene	65	66	51-141	36-156	1	0-16	
Fluorene	76	76	59-121	49-131	0	0-20	
N-Nitroso-di-n-propylamine	84	85	64-136	52-148	2	0-15	
Naphthalene	77	78	21-133	2-152	1	0-20	
4-Nitrophenol	72	72	38-152	19-171	0	0-31	
Pentachlorophenol	62	61	38-116	25-129	2	0-20	
Phenol	77	78	59-125	48-136	1	0-15	
Pyrene	79	77	51-141	36-156	2	0-14	
1,2,4-Trichlorobenzene	79	79	58-118	48-128	0	0-18	

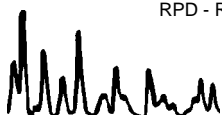
Total number of LCS compounds : 16

Total number of ME compounds : 0

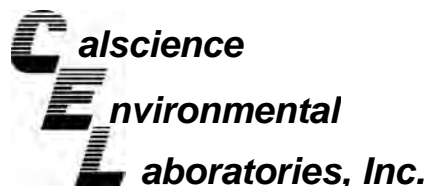
Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



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Glossary of Terms and Qualifiers



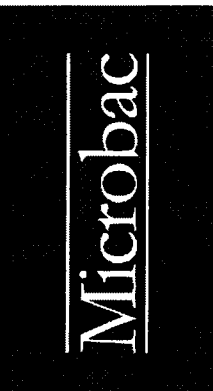
Work Order Number: 10-09-0402

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



DRAFT

ca



Southern California Division
 1401 Research Park Drive, Suite 100
 Riverside, CA 92507
 V: 951.779.0310 • 800.798.9336 F: 951.779.0344
 3299 Hill Street, Suite 305
 Signal Hill, CA 90755
 V: 562.498.7005 F: 562.498.8617

Chain of Custody Record

Microbac WO#

100900055

www.microbac.com social@microbac.com

Page 1 of 2

Project No: 1009-00055		Project Name: AECOM-I 215 HOV Project		Analyses Requested (circle appropriate)									
Project Manager: MARILU ESCHER		Phone: 951-779-0310		Turn Around <input type="radio"/> 24hr RUSH* <input type="radio"/> 48hr RUSH* <input checked="" type="radio"/> Normal <input type="radio"/> Other									
Customer Name: (Report and Billing) Microbac Laboratories		Address: (Report and Billing) 1401 Research Park Drive, Suite 100 Riverside, CA 92507		*PRIOR approval, additional fee, work received after 4 pm will be processed next work day. Special Instructions									
Email: social@microbac.com		Preserved		IC: Br, SO4, PO4, NO3, Cl Chem: Cyanide, Ammonia, TKN, Oil & Grease Chem: BOD, TSS, pH Micro: Plate Cnt, Coliform, F. Coll									
Lab # <small>(Lab use only)</small>	Sample ID <small>(As it should appear on report)</small>	Grab/Comp	Date sampled	Time sampled	Sample matrix	Container # & Type	Metals: Title 22(CAM) or RCRA	LFT Gas or 8015 GRO or C4-C12	LFT Diesel or 8015 DRO or C13-C40	VOCs by GCMS: 8260 or 624	VOCs by GCMS: BTEX, OXYs	SVOCS: 8270 or 625	Pest. &/or PCBs: 608 or 8081/8082
1	BNSF-1 0.5-1'		09/02/10	9:45	Soil	1-4oz jar						X	
2	BNSF-2 0.5-1'		09/02/10	10:05	Soil	1-4oz jar						X	
3	BNSF-3 0.5-1'		09/02/10	10:15	Soil	1-4oz jar						X	
4	BNSF-4 0.5-1'		09/02/10	10:20	Soil	1-4oz jar						X	
5	BNSF-5 0.5-1'		09/02/10	11:15	Soil	1-4oz jar						X	
6	BNSF-6 0.5-1'		09/02/10	11:45	Soil	1-4oz jar						X	
7	UP-1 0.5-1'		09/02/10	13:55	Soil	1-4oz jar						X	
8	UP-2 0.5-1'		09/02/10	14:00	Soil	1-4oz jar						X	
9	UP-3 0.5-1'		09/02/10	14:10	Soil	1-4oz jar						X	
10	UP-4 0.5-1'		09/02/10	12:50	Soil	1-4oz jar						X	
1) Received by: (Sampler's Signature) <i>[Signature]</i>		Date: 9/2/10	3) Relinquished by:		Date: 9/2/10		5) Relinquished by:		Date: 9/2/10		6) Received for Laboratory by: <i>Danning C</i>		Date: 9/2/10
2) Received by:		Date:	4) Received by:		Date:		Report Delivery Formats <input type="checkbox"/> Paper <input type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type _____ <input type="checkbox"/> EDF, EPA Site ID _____		Disposal <input type="radio"/> Return <input type="radio"/> Lab Disposal Unless other arrangements are made samples will be disposed of 60 days after receipt.				

Laboratory Notes:

Samples Chilled Custody Seals Yes No From Field

Samples Intact Yes No Delivery Courier Walk In UPS/Fed Ex

Temp C: **1.4**

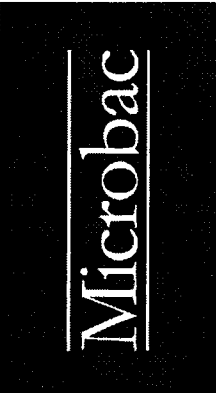
CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS · MOBILE LABORATORIES · PHARMACEUTICALS · NUTRACEUTICALS · COSMETICS

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

White Copy - Original (Accompany Samples) Yellow Copy - Microbac Files Pink Copy - Client Copy

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CEL



Southern California Division
 1401 Research Park Drive, Suite 100
 Riverside, CA 92507
 V: 951.779.0310 • 800.798.9336 F: 951.779.0344
 3299 Hill Street, Suite 305
 Signal Hill, CA 90755
 V: 562.498.7005 F: 562.498.8617

Chain of Custody Record

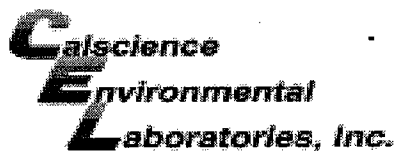
Microbac WCH#

100900055

www.microbac.com social@microbac.com

Page 2 of 2

Project No: 1009-00055 Project Name: AECOM-I 215 HOV Project Project Manager: MARILU ESCHER Customer Name: (Report and Billing) Microbac Laboratories Email: social@microbac.com		Phone: 951-779-0310 Fax: Address: (Report and Billing) 1401 Research Park Drive, Suite 100 Riverside, CA 92507		Analyses Requested (circle appropriate)		Turn Around <input type="radio"/> 24hr RUSH* <input type="radio"/> 48hr RUSH* <input checked="" type="radio"/> Normal <input type="radio"/> Other	
Lab # (Lab use only) 023 UP-5 0.5-1' 025 UP-6 0.5-1'		Sample ID (As it should appear on report) Soil Soil		Container # & Type 1-4oz jar 1-4oz jar		*PRIOR approval, additional fee, work received after 4 pm will be processed next work day. Special Instructions	
1) Relinquished by: (Sampler's Signature) Date: 9/10/10 Time: 1400		3) Relinquished by: Date: Time:		5) Relinquished by: Date: Time:		Disposal <input type="radio"/> Return <input type="radio"/> Lab Disposal Unless other arrangements are made samples will be disposed of 60 days after receipt.	
2) Received by: Date: Time:		4) Received by: Date: Time:		6) Received for Laboratory by: DANVILLE Date: 9/10/10 Time: 14:00		Report Delivery Formats: <input type="checkbox"/> Paper <input type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type _____ <input type="checkbox"/> EDF, EPA Site ID _____	
Samples Chilled <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> From Field		Samples Intact <input type="radio"/> Yes <input type="radio"/> No		Temp C 1.4		Delivery <input type="radio"/> Courier <input type="radio"/> Walk In <input type="radio"/> UPS/Fed Ex	
Laboratory Notes:							



DRAFT

WORK ORDER #: 10-09-0402

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Microbac

DATE: 09/07/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)
Temperature 0.9°C + 0.5°C (CF) = 1.4°C
Blank Sample
Sample(s) outside temperature criteria (PM/APM contacted by:)
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Metals Only PCBs Only
Initial: DL

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A
Sample No (Not Intact) Not Present
Initial: DL

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples...
COC document(s) received complete...
Collection date/time, matrix, and/or # of containers logged in based on sample labels.
No analysis requested. Not relinquished. No date/time relinquished.
Sampler's name indicated on COC...
Sample container label(s) consistent with COC...
Sample container(s) intact and good condition...
Proper containers and sufficient volume for analyses requested...
Analyses received within holding time...
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours...
Proper preservation noted on COC or sample container...
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace...
Tedlar bag(s) free of condensation...

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve () EnCores TerraCores
Water: VOA VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna2
Air: Tedlar Summa Other: Trip Blank Lot#: Labeled/Checked by:
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by:
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by:



CHAIN OF CUSTODY FORM

1009-000555

25864-F-Business Center Dr., Redlands, CA 92374 (909)335-6116, Fax (909) 335-6120

Stantec

Page 1 of 2

Client Name/Address:	Project/PO Number:	Analysis Required	Special Instructions	VOC by EPA Method 8260B		CAM Metals (with Total Chromium) by EPA Method 200.1		Date/Time:
				TPHg by 8015 M	TH122 CM Metals	6010B/7471A	PCB's 8082	
Stantec 25864-F Business Center Dr. Redlands, CA 92374	AECOM - I 215 HOV PROJECT 185802086 Phone Number: 909-335-6116 Fax Number: 909-335-6120							
Project Manager: Anne Perez Email Address: Anne.Perez@stantec.com Sampler: CEF/MZ								
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Received By:	Date/Time:
1 BNSF-1-0.5-1	S	4oz Jar	2	9/2/10	945	None		
2 BNSF-1-1.5-2	S				1000			
3 BNSF-2-0.5-1	S				1005			
4 BNSF-2-1.5-2	S				1015			
5 BNSF-3-0.5-1	S				1015			
6 BNSF-3-1.5-2	S				1030			
7 BNSF-4-0.5-1	S				1020			
8 BNSF-4-1.5-2	S				1030			
9 BNSF-5-0.5-1	S				1115			
10 BNSF-5-1.5-2	S				1130			
11 BNSF-6-0.5-1	S				1145			
12 BNSF-6-1.5-2	S	4oz Jar			1200			
13 EB-1	W	12 Amber	1			HCl		
14 EB-2	W	12 Amber	1					
Relinquished By: <i>Mark Epler</i>	Date/Time: 9/2/10 1612	Received By:	Date/Time:	Received By:	Date/Time:	Received in Lab By: <i>[Signature]</i>	Date/Time: 9-2-10 @ 1612	Sample Integrity: (Check) <u>intact</u> on ice

DRAFT

Note: By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



CHAIN OF CUSTODY FORM

1009-00055

25864-F-Business Center Dr., Redlands, CA 92374 (909)335-6116, Fax (909) 335-6120

Stantec

Page 2 of 2

Client Name/Address:	Project/PO Number:				Analysis Required									
	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	VOC by EPA Method 8260B	CAM Metals (with EPA Method 200, TPHg by 8015 M)	Total Chromium	Tit 22 cam Metals	PCBs 8082	SUOCs 8270	Analysis Required	Special Instructions
Stantec 25864-F Business Center Dr. Redlands, CA 92374	Project Manager: Anne Perez Phone Number: 909-335-6116 Fax Number: 909-335-6120													
Project Manager: Anne Perez Email Address: Anne.Perez@Stantec.com Sampler: CE/ML														
15 UP-1 0.5-1	S	40 ^{oz} Jar	2	9/2/10	1355	None				X	X	X		
16 UP-1 1.5-2					1400					X	X	X		
17 UP-2 0.5-1					1400					X	X	X		
18 UP-2 1.5-2					1420					X	X	X		
19 UP-3 0.5-1					1410					X	X	X		
20 UP-3 1.5-2					1415					X	X	X		
21 UP-4 0.5-1					1250					X	X	X		
22 UP-4 1.5-2					1300					X	X	X		
23 UP-5 0.5-1					1230					X	X	X		
24 UP-5 1.5-2					1240					X	X	X		
25 UP-6 0.5-1					1255					X	X	X		
26 UP-6 1.5-2					1305					X	X	X		
27 EB-3	W	Amber	1			HCl				X	X	X		
28 EB-4	W	Amber	1			HCl				X	X	X		
Relinquished By: <i>[Signature]</i>	Date/Time: 9/2/10 1612				Received By: <i>[Signature]</i>						Date/Time: 9-2-10 @ 1612			
Relinquished By: <i>[Signature]</i>	Date/Time: 9/2/10 1612				Received By: <i>[Signature]</i>						Date/Time: 9-2-10 @ 1612			
Relinquished By: <i>[Signature]</i>	Date/Time: 9/2/10 1612				Received in Lab By: <i>[Signature]</i>						Date/Time: 9-2-10 @ 1612			
Turnaround													Time: (Check)	
same day													5 days	
24 hours													normal	
48 hours													on ice	
Sample Integrity: (Check)													Intact	

DRAFT

Note: By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

EMC LABS, INC.

Laboratory Report

0090687

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	STANTEC	Job# / P.O. #:	
Address:	25864-F BUSINESS CENTER DRIVE REDLANDS CA 92374	Date Received:	09/03/2010
Collected:	09/02/2010	Date Analyzed:	09/09/2010
Project Name/	KAN I-215 GAP CLOSURE	Date Reported:	09/09/2010
Address:	RAILROAD BRIDGES	EPA Method:	EPA 600/M4-82-020
		Submitted By:	TAMMY LAPP
		Collected By:	Customer

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0090687-001 01C		Concrete, Gray	No		Cellulose Fiber <1% Gypsum Carbonates Mica Quartz Binder/Filler 99%
0090687-002 02EF		Expansion Joint Felt, Black	No		Cellulose Fiber 40% Gypsum Quartz Binder/Filler 60%
0090687-003 03C		Concrete, Gray	No		Gypsum Carbonates Mica Quartz Binder/Filler 100%
0090687-004 04S		Shim, Gray/Brown	Yes	Chrysotile 85%	Gypsum Quartz Binder/Filler 15%
0090687-005 05S		Shim, Gray/Brown	Yes	Chrysotile 85%	Gypsum Quartz Binder/Filler 15%
0090687-006 06C		Concrete, Gray	No		Cellulose Fiber <1% Gypsum Carbonates Mica Quartz Binder/Filler 99%
0090687-007 07EF		Expansion Joint Felt, Black	No		Cellulose Fiber 40% Gypsum Quartz Binder/Filler 60%

EMC LABS, INC.

Laboratory Report
0090687

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	STANTEC	Job# / P.O. #:	
Address:	25864-F BUSINESS CENTER DRIVE REDLANDS CA 92374	Date Received:	09/03/2010
Collected:	09/02/2010	Date Analyzed:	09/09/2010
Project Name/	KAN I-215 GAP CLOSURE	Date Reported:	09/09/2010
Address:	RAILROAD BRIDGES	EPA Method:	EPA 600/M4-82-020
		Submitted By:	TAMMY LAPP
		Collected By:	Customer

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0090687-008 08C		Concrete, Gray	No		Gypsum Carbonates Mica Quartz Binder/Filler 100%
0090687-009 09S		Shim, Gray/Brown	Yes	Chrysotile 85%	Gypsum Quartz Binder/Filler 15%
0090687-010 10S		Shim, Gray/Brown	Yes	Chrysotile 85%	Gypsum Binder/Filler 85%
0090687-011 11C		Concrete, Gray	No		Cellulose Fiber <1% Gypsum Carbonates Mica Quartz Binder/Filler 99%
0090687-012 12C		Concrete, Gray	No		Cellulose Fiber <1% Gypsum Mica Quartz Carbonates Binder/Filler 99%
0090687-013 13C		Shim, Gray/Orange	Yes	Chrysotile 85%	Cellulose Fiber 5% Gypsum Binder/Filler 10%
0090687-014 14S		Shim, Gray/Orange/Sliver	Yes	Chrysotile 85%	Gypsum Quartz Binder/Filler 15%

EMC LABS, INC.

Laboratory Report
0090687

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	STANTEC	Job# / P.O. #:	
Address:	25864-F BUSINESS CENTER DRIVE	Date Received:	09/03/2010
	REDLANDS CA 92374	Date Analyzed:	09/09/2010
Collected:	09/02/2010	Date Reported:	09/09/2010
Project Name/	KAN I-215 GAP CLOSURE	EPA Method:	EPA 600/M4-82-020
Address:	RAILROAD BRIDGES	Submitted By:	TAMMY LAPP
		Collected By:	Customer

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0090687-023 23PW		Pipe Wrap, Silver/ Black	Yes	Chrysotile 70%	Cellulose Fiber 5% Gypsum Binder/Filler 25%



Analyst - Paul Hofer



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernable layer. All analyses are derived from calibrated visual estimate and measured in weight percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately <1% by weight. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by any entity to claim product endorsement by NVLAP or any agency of the U.S. Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

CHAIN OF CUSTODY
 EMC Laboratories
 9830 S. 51ST St., Ste B-109
 Phoenix, AZ 85044
 (800) 362-3373 Fax (480) 893-1726

LAB#: 90687
 TAT: 3day
 Rec'd: SEP 09 PM

COMPANY NAME: **STANTEC**
25864-F Business Center Drive
Redland, CA 92374
 CONTACT: Tammy Lapp
 Phone/Fax: (909) 335-6116 x 2249/ (909) 335-6120
 Email: tammy.lapp@stantec.com

BILL TO: _____

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] **X [3-Day]** [5-Day] [6-10 Day]

****Prior confirmation of turnaround time is required
 ****Additional charges for rush analysis (please call marketing department for pricing details)
 ****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** **XX** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** **X** [Dispose of samples at EMC] / [Return samples to me at my expense]
 (If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

23

4. **Project Name:** Lan I-215 Gap Closure - Railroad Bridges

P.O. Number: _____ **Project Number:** _____

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS			
					ON	OFF	FLOW RATE	
1	01C	9-2-10	B.N.S.F. - Concrete NE	Y N				
2	02 EF		EXPANSION JOINT FELT	Y N				
3	03C		Concrete SE	Y N				
4	04S		Shim #2 SE	Y N				
5	05S		Shim #12 Center	Y N				
6	06C		Concrete NW	Y N				
7	07 EF		EXPANSION JOINT FELT	Y N				
8	08C		Concrete SW	Y N				
9	09S		Shim #11 SW	Y N				
10	10S		Shim #11 NW	Y N				
11	11C		U.P.	Concrete NE	Y N			
12	12C		V	Concrete SE	Y N			
13	13C			Shim #3 SE	Y N			
14	14S			Shim #5 SE	Y N			
15	15S		V	Shim #8 NE	Y N			

SPECIAL INSTRUCTIONS: _____

Sample Collector: (Print) Tammy Lapp (Signature) _____

Relinquished by: Tammy Lapp Date/Time: _____ Received by: Diana Federico Date/Time: 9/3/10 9:30

Relinquished by: Diana Federico Date/Time: 9/3/10 1510 Received by: _____ Date/Time: 9-9-10/12:05

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

CHAIN OF CUSTODY
EMC Laboratories
 9830 S. 51ST St., Ste B-109
 Phoenix, AZ 85044
 (800) 362-3373 Fax (480) 893-1726

LAB#:	
TAT:	90687
Rec'd:	

COMPANY NAME: **STANTEC**
 25864-F Business Center Drive
 Redland, CA 92374
 CONTACT: Tammy Lapp
 Phone/Fax: (909) 335-6116 x 2249/ (909) 335-6120
 Email: tammy.lapp@stantec.com

BILL TO: _____ (If Different Location)

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] X [3-Day] [5-Day] [6-10 Day]

****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** **XX** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** **X** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. **Project Name:** Lan I-215 Gap Closure - Railroad Bridges

P.O. Number: _____ **Project Number:** _____

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
16	16 C	9-2-10	D.P. Concrete NW	Y N			
17	17 C		Concrete SW	Y N			
18	18 S		woodsum NW	Y N			
19	19 S		Sum# 4 NW	Y N			
20	20 S		Sum #5 NW	Y N			
21	21 PW		Pipe wrap	Y N			
22	22 PW		Pipe wrap	Y N			
23	23 PW		Pipe wrap	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Tammy Lapp

(Signature) _____

Relinquished by: Tammy Lapp, Date/Time: _____

Received by: Diana Federeco Date/Time: 9/3/10 9:30

Relinquished by: Diana Federeco Date/Time: 9/3/10 1:10

Received by: _____ Date/Time: 9-9-10/12:05

Relinquished by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

*** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

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9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES
EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB #: L39098		DATE RECEIVED: 09/03/10			
CLIENT: Stantec		REPORT DATE: 09/08/10			
		DATE OF ANALYSIS: 09/08/10			
CLIENT ADDRESS: 25864-F Business Center Drive Redland, CA 92374		P.O. NO.:			
PROJECT NAME: Lan I-215 Gap Closure-Railroad Bridges		PROJECT NO.:			
EMC # L39098-	SAMPLE DATE /10	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
1	09/02	01 PC	Paint Chips-B.N.S.F.-N/E Top Girder	1.0	59.3^^
2	09/02	02 PC	Paint Chips-B.N.S.F.-N/E End Girder	1.2	56.2^^
3	09/02	03 PC	Paint Chips-B.N.S.F.-S/E Gray Concrete	0.055	0.035
4	09/02	04 PC	Paint Chips-B.N.S.F.-S/E Girder	1.4	56.8^^
5	09/02	05 PC	Paint Chips-B.N.S.F.-S/E Girder	1.0	55.4^^
6	09/02	06 PC	Paint Chips-B.N.S.F.-Beneath N/E Gray Concrete	0.010	0.075

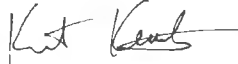
^ = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

ANALYST: 
Jason Thompson

QA COORDINATOR: 
Kurt Kettler

DRAFT



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EMC LAB #: L39098		DATE RECEIVED: 09/03/10			
CLIENT: Stantec		REPORT DATE: 09/08/10			
		DATE OF ANALYSIS: 09/08/10			
CLIENT ADDRESS: 25864-F Business Center Drive Redland, CA 92374		P.O. NO.:			
PROJECT NAME: Lan I-215 Gap Closure-Railroad Bridges		PROJECT NO.:			
EMC # L39098-	SAMPLE DATE /10	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
7	09/02	07 PC	Paint Chips-B.N.S.F.-S/W Girder	2.0	54.7^^
8	09/02	08 PC	Paint Chips-B.N.S.F.-S/W Concrete	0.010	0.016
9	09/02	09 PC	Paint Chips-B.N.S.F.-N/W Beneath Steel	0.010	0.033
10	09/02	10 PC	Paint Chips-B.N.S.F.-N/W End Girder	1.0	64.5^^
11	09/02	11 PC	Paint Chips-U.P.-N/E Concrete	1.0	45.6^^
12	09/02	12 PC	Paint Chips-U.P.-S/E Concrete	1.0	32.7^^


^A = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

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ANALYST: 
Jason Thompson

QA COORDINATOR: 
Kurt Kettler

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9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES
EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB #: L39098		DATE RECEIVED: 09/03/10			
CLIENT: Stantec		REPORT DATE: 09/08/10			
		DATE OF ANALYSIS: 09/08/10			
CLIENT ADDRESS: 25864-F Business Center Drive Redland, CA 92374		P.O. NO.:			
PROJECT NAME: Lan I-215 Gap Closure-Railroad Bridges		PROJECT NO.:			
EMC # L39098-	SAMPLE DATE /10	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (% Pb by weight)	%Pb BY WEIGHT
13	09/02	13 PC	Paint Chips-U.P.-S/E Shim #3	0.010	0.040
14	09/02	14 PC	Paint Chips-U.P.-S/E Shim #5	1.0	62.7^^
15	09/02	15 PC	Paint Chips-U.P.-N/E Shim #8	0.010	0.032
16	09/02	16 PC	Paint Chips-U.P.-N/W Beneath Steel Frame	1.4	49.4^^
17	09/02	17 PC	Paint Chips-U.P.-N/W Concrete	0.010	0.023
18	09/02	18 PC	Paint Chips-U.P.-N/W Top Girder	3.4	31.2^^

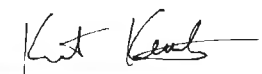
^ = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

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ANALYST: 
Jason Thompson

QA COORDINATOR: 
Kurt Kettler

CHAIN OF CUSTODY
 EMC Laboratories
 9830 S. 51ST St., Ste B-109
 Phoenix, AZ 85044
 (800) 362-3373 Fax (480) 893-1726

LAB#: L39098
 TAT: 3 days
 Rec'd: 9/3/10

COMPANY NAME: **STANTEC**
 25864-F Business Center Drive
 Redland, CA 92374
 CONTACT: Tammy Lapp
 Phone/Fax: (909) 335-6116 x 2249/ (909) 335-6120
 Email: tammy.lapp@stantec.com

BILL TO: _____

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] X [3-Day] [5-Day] [6-10 Day]

****Prior confirmation of turnaround time is required
 ****Additional charges for rush analysis (please call marketing department for pricing details)
 ****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** Bulk-PLM] [Air-PCM] XX [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** X [Dispose of samples at EMC] / [Return samples to me at my expense]
 (If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. **Project Name:** Lan I-215 Gap Closure - Railroad Bridges
P.O. Number: _____ **Project Number:** _____

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted		AIR SAMPLE INFO / COMMENTS		
				Yes	No	ON	OFF	FLOW RATE
1	01 PC	9-2-10	BNSF - N/E TOP Girder	Y	N			
2	02 PC		NE End Girder	Y	N			
3	03 PC		SE Gray Concrete	Y	N			
4	04 PC		SE Girder	Y	N			
5	05 PC		S/E Girder	Y	N			
6	06 PC		Beneath NE gray concrete	Y	N			
7	07 PC		S/W girder	Y	N			
8	08 PC		S/W concrete	Y	N			
9	09 PC		N/W Beneath Steel	Y	N			
10	10 PC		N/W end girder	Y	N			
11	11 PC		U.P. N-E concrete	Y	N			
12	12 PC		S/E concrete	Y	N			
13	13 PC		S/E Shim #3	Y	N			
14	14 PC		S/E Shim #5	Y	N			
15	15 PC		N/E Shim #8	Y	N			

SPECIAL INSTRUCTIONS: _____
 Sample Collector: (Print) Tammy Lapp (Signature) [Signature]
 Relinquished by: Tammy Lapp Date/Time: _____ Received by: [Signature] Date/Time: 9/3/10
 Relinquished by: [Signature] Date/Time: 9/3/10 Received by: [Signature] Date/Time: 9/3/10
 Relinquished by: _____ Date/Time: 9/4/10 10:50 Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

Girder

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CHAIN OF CUSTODY
 EMC Laboratories
 9830 S. 51ST St., Ste B-109
 Phoenix, AZ 85044
 (800) 362-3373 Fax (480) 893-1726

LAB#:
TAT: <u>139098</u>
Rec'd:

COMPANY NAME: STANTEC BILL TO: _____ (If Different Location)
25864-F Business Center Drive
Redland, CA 92374
 CONTACT: Tammy Lapp
 Phone/Fax: (909) 335-6116 x 2249/ (909) 335-6120
 Email: tammy.lapp@stantec.com

Now Accepting: **VISA – MASTERCARD** Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] X [~~3-Day~~] [5-Day] [6-10 Day]
 ****Prior confirmation of turnaround time is required
 ****Additional charges for rush analysis (please call marketing department for pricing details)
 ****Laboratory analysis may be subject to delay if credit terms are not met
2. **TYPE OF ANALYSIS:** XX [Bulk-PLM] [Air-PCM] [~~Lead~~] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]
 3. **DISPOSAL INSTRUCTIONS:** X [Dispose of samples at EMC] / [Return samples to me at my expense]
 (If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. Project Name: Lan I-215 Gap Closure – Railroad Bridges
 P.O. Number: _____ Project Number: _____

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
<u>16</u>	<u>16 PC</u>	<u>9-2-10</u>	<u>U.P. N/W Steel Frame</u>	<u>Y</u> <u>N</u>			
<u>17</u>	<u>17 PC</u>	<u>[scribble]</u>	<u>↓ New Concrete</u>	<u>Y</u> <u>N</u>			
<u>18</u>	<u>18 PC</u>	<u>[scribble]</u>	<u>↓ New Top grade</u>	<u>Y</u> <u>N</u>			
		<u>↓</u>		<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			
				<u>Y</u> <u>N</u>			

SPECIAL INSTRUCTIONS: _____

Sample Collector: (Print) Tammy Lapp (Signature) _____

Relinquished by: Tammy Lapp Date/Time: _____ Received by: [Signature] Date/Time: 9/3/10

Relinquished by: [Signature] Date/Time: 9/3/10 Received by: [Signature] Date/Time: 9/3/10

Relinquished by: [Signature] Date/Time: 9/6/10 Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

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ENVIRONMENTAL SITE ASSESSMENT REPORT

**I-215 BI-COUNTY HOV GAP CLOSURE PROJECT:
UP RAILWAY SOIL, LBP, AND ACM INVESTIGATIONS
SAN BERNARDINO COUNTY, CALIFORNIA**

Prepared for:

AECOM/LAN Engineering Corporation
999 Town & Country Road
Orange, California 92868

October 15, 2010

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FIGURES

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Figure 2 Soil Sample Locations

Figure 3 LBP and ACM Sample Locations

APPENDICES

Appendix A Analytical Laboratory Reports and Chain-of-Custody Records

1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION AND OBJECTIVES

At the request of AECOM (formerly LAN Engineering Corporation) and pursuant to the scope work outlined in the work plan dated March 23, 2009, Stantec Consulting Corporation (Stantec) has prepared this report to present the results, findings, and conclusions of a Phase II Environmental Site Assessment (ESA). This report was conducted to investigate potential recognized environmental concerns identified within the Union Pacific (UP) railroad right of way for the I-215 Bi-County HOV Gap Closure project (HOV project). The HOV Project limits extend along I-215 from approximately State Route 60/State Route 91/I-215 system interchange in the city of Riverside to Orange Show Road in the city of San Bernardino. The project includes paving of the inside median, outside widening of the freeway, the widening of several structures, and the replacement of two railroad underpasses to accommodate one new HOV lane in each direction.

The two railroad underpasses to be replaced will be removed and reconstructed to improve the vertical clearance over the freeway. The underpasses include: 1) the BNSF underpass over I-215 in Highgrove, in the county of San Bernardino, at MP 5.84; and, 2) the Union Pacific Railroad underpass over I-215 in the city of Grand Terrace, county of San Bernardino, Riverside subdivision, at MP 541.5. The two underpasses will be demolished and replaced with new structures. During construction shoo-fly structures will be constructed to provide continuous access for the railroads.

As part of due diligence activities under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and under the direction of AECOM, a limited ESA was conducted to evaluate potential environmental concerns and conditions in support of the proposed construction activities along the proposed construction zone, including:

- Impacted soils along the railway;
- Lead-based paint used on railway bridges; and
- Asbestos containing materials used as bridge structural components.

The following sections describe the methodology, findings, and conclusions of the ESA performed at each railway to assess potential environmental concerns. Also included is a summary of field sampling activities, laboratory test results, and recommendations for soil management during construction activities.

1.2 SCOPE-OF-WORK

The scope of the ESA consisted of the following general elements:

- Pre-field project assessment and Health and Safety Plan (HASP) development
- Hand augering and soil sampling
- Painted surface sampling
- Suspect asbestos containing materials sampling
- Laboratory analysis
- Data evaluation and report development.

Each of the individual tasks is discussed in detail in the following subsections.

1.2.1 Pre-Field Activities

Site plans provided by AECOM were reviewed and compared to actual field conditions during the site reconnaissance. From this preliminary site evaluation and through discussions with AECOM engineers, sample locations were designated on site plans to guide field investigation activities. In addition, a site-specific HASP was developed in accordance with California Occupational Safety and Health Administration (Cal OSHA) requirements to guide field activities.

1.2.2 Field Sampling Activities

The field methods used for this site investigation were consistent with those proposed in the work plan submitted to AECOM dated March 26, 2009. The proposed sampling locations at the UP railroad site were accessible and no deviations were necessary. Field sampling is summarized in the following paragraphs.

- **Metals in soils**
 - Six (6) shallow hand-auger borings (HA-7 through HA-12) were advanced along accessible portions of the unpaved railway shoulder to a maximum depth of two feet below the ground surface (bgs).
 - Samples were collected at depths of 0.5-1, and 1.5-2 feet bgs.
 - The two samples collected from each boring were submitted for analysis of Title 22 Metals and the top sample was also submitted for polychlorinated biphenyl (PCB) and semi-volatile organic compounds (SVOC) analysis.
- **LBP**
 - Eight (8) paint chip samples (PC-11 through PC-18) were collected from the various painted surfaces associated with the railroad bridge.
 - Samples were submitted for analysis of total lead.
- **ACMS**
 - Thirteen (13) suspect ACM samples (11 through 23) were collected from shims, concrete, and pipe wrap associated with the railroad bridge.
 - Samples were submitted for bulk asbestos analysis by polarized light microscopy (PLM) techniques.

Soil Sampling

At each location, soil samples were collected directly from the hand auger bailer, manually homogenized in the field, and discharged into glass jars with tight fitting caps and sealed with inert tape. All sample jars were labeled with a unique sample identification (ID) number, borehole ID, sample depth, sample date, and sample time. All samples were annotated on chain-of-custody forms and delivered to a laboratory certified by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) for the analyses indicated herein.

Prior to sampling, all soil sampling equipment was decontaminated prior to sampling at each location using an Alconox scrub solution and followed by a tap water and deionized water double rinse.

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- SVOCs EPA test method 8270
- The paint chip samples were submitted for the following analysis:
 - Lead EPA SW-846 Method 7420
- The suspect ACM samples were submitted for the following analysis:
 - ACM analysis by Polarized Light Microscopy (PLM)

1.3 PREVIOUS SITE INVESTIGATIONS

Stantec is not aware of, and was not provided, any other environmental investigations associated with the recognized environmental concerns associated with the UP railway soils and bridge.

2.0 INVESTIGATIVE RESULTS

2.1 SUBSURFACE CONDITIONS

The soils encountered during sampling were generally brown to brownish gray in color and consisted of medium-grained sands with silts and some clays and gravels. The soils were relatively dry in the soil column down to the maximum depth of approximately 2 feet bgs. No chemical odors or staining were reported in the soil samples. Groundwater was not encountered in any of the boreholes and not expected to be present in the upper 20 feet.

2.2 ANALYTICAL RESULTS

Copies of the laboratory reports and chain-of-custody forms are included in Appendix A. The analytical results are tabulated on Tables 1, 2 and 3, and summarized below:

- **SOIL SAMPLES**
 - Twelve (12) total samples from six (6) borings (HA-7 to HA-12; Figure 2) were submitted for Title 22 Metals analysis and the six (6) shallow samples were also submitted for PCB and SVOC analysis.
 - Several metals analytes were reported above laboratory reporting limits in soil samples. Table 1 compares project sample data with the background statistical data from studies performed for the California Department of Toxic Substances Control (DTSC) in 1991 (Marret et al, April 1991). Based on this comparison it appears that the reported metals concentrations, with the exception of one lead sample, are consistent with expected background concentrations.
 - An elevated lead concentration (497 mg/kg) was reported in the 0.5-1.0 foot sample in one boring.
 - The elevated lead sample was submitted to the lab to assess the soluble lead concentration with respect to California Soluble Threshold Limit Concentrations (STLC). The concentration reported was 3.74 mg/L (below the STLC of 5 mg/L).
 - PCB and SVOC analytes were not reported above the laboratory reporting limits in all samples.

- **LBP SAMPLES**
 - The painted surfaces along the railway bridge structure were overall in good condition with no peeling or flaking visible.
 - Eight (8) samples (PC-11 to PC-18; Figure 3) were submitted for analysis of lead based paint.
 - Reported concentrations ranged from 230 to 62,700 mg/Kg. Six (6) of the samples reported lead concentrations exceeding the California Hazardous Waste level of 1,000 mg/Kg.

- **ACM SAMPLES**
 - The suspect asbestos containing materials along the railway bridge structure were overall in good condition. The shims and pipe wrap would be considered friable materials but were in good condition.
 - Thirteen (13) samples (11 to 23; Figure 3) were submitted for analysis of asbestos.

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- Asbestos was detected at 85% in all five (5) shim samples and at 70% in the pipe wrap samples. Asbestos was not reported above the reporting limits in the concrete and plaster samples.

2.3 DATA VALIDATION

Prior to submitting soil samples to the laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness. The laboratory reports were cross checked with the chain-of-custody forms to confirm accurate transposing of sample information. Laboratory quality assurance and quality control (QA/QC) data (method blanks, laboratory control samples and duplicates, matrix spike samples and duplicates) were also reviewed for compliance with QA/QC objectives. Based on this validation process, the quality of the data contained herein are adequate for the purposes of this study. Laboratory quality control data are attached in Appendix A.

3.0 CONCLUSIONS AND RECOMMENDATIONS

The ESA was conducted to evaluate potential environmental concerns or conditions within the proposed construction zone within the railroad right-of-way. The following paragraphs present conclusions and recommendations for development based on the findings of the Phase II ESA.

1. **Contaminated Soil:**

Metals were reported in soil samples collected from borings advanced at the site. With the exception of arsenic and lead, all of the analytes were reported at concentrations below typical regulatory action levels or expected background.

- Lead was reported at an elevated concentration, above expected background levels and the EPA RSLs (risk-based screening levels) near the railway line on the southwest side of the bridge. The elevated lead sample was submitted to the lab to assess the soluble lead concentration with respect to California Soluble Threshold Limit Concentrations (STLC). The concentration reported was 3.74 mg/L (below the STLC of 5 mg/L). Based on the analytical data including the soluble lead data, the lead concentration appears to be below state and federal hazardous waste levels (TTLC Lead: 1,000 mg/kg; STLC Lead: 5 mg/L). As a result, the soil along the railway shoulders may be reused on site or released to the contractor for disposition. However, unless the soil can be re-used on-site, it is recommended that the soil be disposed as a non-hazardous waste.

2. **Lead-based Paint:**

- The paint along the railroad bridge girders, the painted concrete, the shims, and the steel frame (underneath) contains lead and should be managed as lead-based paint.

If the paint is removed separate from the structural materials, the LBP should be managed as a hazardous waste. However, if the structure is removed with the paint, the structure/paint mixture may be managed as a non hazardous waste, and disposed as demolition debris.

3. **Asbestos Containing Materials:**

- Laboratory analysis indicates that the shim material contains 85 percent (85%) asbestos and the pipe wrap material contains 70% asbestos. The material could be crushed by hand pressure, and is; therefore, considered a friable ACM Material. The shims were observed on both the north and south ends of the bridge and the pipe wrap was observed to run the full length of the bridge.

Prior to reconstruction/demolition activities, a licensed asbestos abatement firm should be contracted to remove and dispose of identified asbestos containing materials. This work should be completed in accordance with the South Coast Air Quality Management District (SCAQMD) guidelines.

4. **Excess Soil Re-use:**

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Caltrans or the contractor may wish to consider alternative re-use of excess soil, other than landfilling or onsite re-use. Much of the new right-of-way for the proposed construction activities is associated with property that has a long history of transportation use. Consequently, the potential for environmental impairment is greater on these properties. As indicated above, soil within the upper 2.5 feet may be considered for on-site reuse. However, off-site re-use should only be considered with additional sampling and testing, otherwise it should be disposed as non-hazardous waste.

Any soil considered for off-site, non-residential, re-use should be stockpiled, sampled and analyzed to assure that the soil is suitable for its intended re-use. At a minimum, samples should be analyzed for petroleum hydrocarbons, volatile organic compounds, polychlorinated biphenyls, pesticides, polycyclic aromatic compounds, and Title 22 metals. It is recommended that the suitability of excess soil for potential re-use be evaluated in accordance with the Department of Toxic Substances Control "Information Advisory – Clean Imported Fill Material", dated October 2001. The resulting data may be statistically compared to the May 2010 U.S. EPA Region 9 Remediation Screening Levels (RSLs). The data may be considered for re-use if the 95 percent Upper Confidence Limit of the mean is less than the US EPA Region 9 RSL for each analyte.

Other than the actions recommended above, no other investigation or remediation appears warranted at this time. Given the history of the Site, undiscovered or unknown environmental conditions may be encountered during grading and development of the proposed project. If encountered, additional investigations and removal actions may be required at that time.

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4.0 CLOSURE

The conclusions and recommendations contained in this report/assessment are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted engineering standards and practices applicable to this location and are subject to the following inherent limitations:

The data and findings presented in this report are valid as of the dates when the investigations were performed. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Work outlined in the Work Plan dated March 26, 2009.

Unless otherwise stated in the report, because of the limitations stated above, the findings, observations, and conclusions expressed in this report are not, and should not be, considered an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation.

No warranty or guarantee, whether express or implied, is made with respect to the data or the reported findings, observations, and conclusions, all of which, however, accurately reflect site conditions in existence at the time of investigation.

This report presents professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion as to the requirements of, nor compliance with, environmental laws, rules, regulations or policies of federal, state or local governmental agencies. Any use constitutes acceptance of the limits of liability. The report preparer's liability extends only to those parties contracted to complete this project and not to any other parties who may obtain the Report. Issues raised by the report should be reviewed by appropriate legal counsel.

This report is based, in part, on unverified information supplied to the report preparer by third-party sources. While efforts have been made to substantiate this third-party information, the report preparer cannot guarantee its completeness or accuracy.

DRAFT

4.0 LIST OF PREPARERS

This Phase II ESA report has been prepared under the direction of the following environmental professionals.

Preparers:

- Kevin K. Miskin, P.E.
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If you have any questions or comments regarding the information enclosed herein, please contact the undersigned at your convenience.

Respectfully submitted,
Stantec Consulting Corporation

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TABLES

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TABLE 1
Summary of Soil Analytical Results
UP BRIDGE RAILWAY

Sample ID ⁽¹⁾	Sample Depth	Antimony mg/kg	Arsenic mg/kg	Barium mg/kg	Beryllium mg/kg	Cadmium mg/kg	Chromium mg/kg	Cobalt mg/kg	Copper mg/kg	Lead mg/kg	Molybdenum mg/kg	Nickel mg/kg	Selenium mg/kg	Silver mg/kg	Thallium mg/kg	Vanadium mg/kg	Zinc mg/kg	Mercury (mg/kg)	PCBs	SVOCs
EPA REGIONAL SCREENING LEVELS⁽²⁾		31	1.6	5400	150	37	210	900	3100	150	390	1600	390	390	5.2	78	23,000		NA	NA
CALIFORNIA HUMAN HEALTH SCREENING LEVELS⁽³⁾		30	0.07	5200	150	1.7	NE	660	3000	150	380	1600	380	380	5	530	23,000		NA	NA
BACKGROUND CONCENTRATIONS⁽⁴⁾		Not established	0.6-11.0	133-1400	0.25-2.70	0.05-1.70	23-1579	2.7-46.9	9.1-96.4	12.4-97.1	0.1-9.6	9-509	0.015-0.430	13.2-39.4	9.8-36.2	75-288	133-236	0.05-0.90	NA	NA
UNION PACIFIC - HAND AUGER SAMPLES																				
UP-1	0.5-1	<1.00	8.05	66.9	<0.500	<0.500	14.7	7.52	13.7	497.00	<0.500	11.3	<1.00	<1.00	<1.00	30.2	97	<0.0200	ALL ND	ALL ND
	1.5-2	<1.00	3.41	66.0	<0.500	<0.500	13.5	7.36	12.3	4.99	<0.500	10.9	<1.00	<1.00	<1.00	30.4	33.1	<0.0200	NA	NA
UP-2	0.5-1	<1.00	3.19	65.3	<0.500	<0.500	12.8	6.81	11.1	4.66	<0.500	10	<1.00	<1.00	<1.00	29.3	31.6	0.0722	ALL ND	ALL ND
	1.5-2	<1.00	8.71	77.7	<0.500	<0.500	18.9	7.69	16.1	12.90	<0.500	14.4	<1.00	<1.00	<1.00	32.5	61.6	0.0343	NA	NA
UP-3	0.5-1	<1.00	2.93	72.4	<0.500	<0.500	13.7	7.41	12.1	4.33	<0.500	11	<1.00	<1.00	<1.00	31.1	31.5	<0.0200	ALL ND	ALL ND
	1.5-2	<1.00	2.02	65.9	0.51	<0.500	15.2	8.12	13.1	4.73	<0.500	11.7	<1.00	<1.00	<1.00	34.3	33.9	<0.0200	NA	NA
UP-4	0.5-1	<1.00	2.84	93.1	<0.500	<0.500	13.1	7.04	12.9	8.95	<0.500	10.1	<1.00	<1.00	<1.00	29.1	33.5	<0.0200	ALL ND	ALL ND
	1.5-2	<1.00	5.44	80.4	<0.500	<0.500	11.8	6.33	12	7.63	<0.500	9.13	<1.00	<1.00	<1.00	26.6	35.5	<0.0200	NA	NA
UP-5	0.5-1	1.27	11.70	91.5	<0.500	<0.500	14.6	7.57	20.2	17.90	<0.500	11.3	<1.00	<1.00	<1.00	33.4	77.1	0.0452	ALL ND	ALL ND
	1.5-2	<1.00	4.03	92.0	<0.500	<0.500	14	7.47	17.5	11.20	<0.500	11.1	<1.00	<1.00	<1.00	30.5	54.9	0.0346	NA	NA
UP-6	0.5-1	<1.00	3.20	107.0	0.522	<0.500	17.4	8.77	15.6	4.63	<0.500	12.9	<1.00	<1.00	<1.00	38.1	36	<0.0200	ALL ND	ALL ND
	1.5-2	<1.00	3.08	73.8	<0.500	<0.500	15.4	8.14	13	4.16	<0.500	11.6	<1.00	<1.00	<1.00	34.6	33	<0.0200	NA	NA

NOTES:

⁽¹⁾Sample ID indicates borehole location followed by sample collection depth in feet

⁽²⁾United States Environmental Protection Agency Regional Screening Levels - dated December 2009

⁽³⁾California EPA California Human Health Screening Levels - dated January 2005

⁽⁴⁾Marrett, D.J., A.L. Page, G.R. Bradford, D. Bakhtar, R.C. Graham, A.C. Chang, Background Levels of Soil Trace Elements in Southern California Soils, April, 1991

<0.5 - Analyte not reported at or above stated detection limit

All samples were collected between 07/19/2010 through 07/22/2010

-- Indicated analysis of these constituents was not proposed or necessary.

Shading indicates a sample reporting a concentration that exceeds the regulatory screening levels.

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**TABLE 2
LEAD-BASED PAINT SAMPLE LOG AND ANALYTICAL RESULTS**

SAMPLE NUMBER	SAMPLE TYPE (SAMPLE LOCATION)	Mg Pb/Kg	% Pb/by Weight
HUD/CAL-OSHA ACTION LEVELS		5,000	0.500
CALIFORNIA HAZARDOUS WASTE ACTION LEVELS		1,000	0.100
UNION PACIFIC PAINT CHIP SAMPLES			
11PC	NE CONCRETE	45,600	45.6
12PC	SE CONCRETE	32,700	32.7
13PC	SE SHIM #3	400	0.04
14PC	SE SHIM #5	62,700	62.7
15PC	SE SHIM #8	320	0.032
16PC	NW BENEATH STEEL FRAME	49,400	49.4
17PC	NW CONCRETE	230	0.023
18PC	NW TOP GIRDER	31,200	31.2

Mg/Kg = Milligrams per Kilogram

Pb = Lead

Analytical documentation is in Appendix B. Paint Chip sample locations are depicted on the attached Figure. Sample analyses completed by EMC SOP Method #L01/1, US EPA SW-846 Method 7420

Shaded cells indicate concentrations are in excess of the stated action levels.

**TABLE 3
ASBESTOS CONTAINING MATERIALS SAMPLE LOG AND ANALYTICAL RESULTS**

SAMPLE ID	SAMPLE LOCATION	MATERIAL DESCRIPTION	ANALYSIS RESULTS	Condition Friable? Yes/No	Hazard Rating
UP BRIDGE SAMPLES					
11C	NW CONCRETE WALL	CONCRETE	ND	GOOD	Low
12C	SE CONCRETE WALL	CONCRETE	ND	GOOD	Low
13S*	SHIM - SOUTH END	SHIM GRAY/ORANGE	YES - 85%	GOOD	Low
14S	SHIM - SOUTH END	SHIM GRAY/ORANGE/SILVER	YES - 85%	GOOD	Low
15S	SHIM - NORTH END	SHIM GRAY/ORANGE/SILVER	YES - 85%	GOOD	Low
16C	NW CONCRETE WALL	CONCRETE	ND	GOOD	Low
17C	SW CONCRETE WALL	PLASTER	ND	GOOD	Low
18S	SHIM - SOUTH END	SHIM WHITE/LT. BROWN	ND	GOOD	Low
19S	SHIM - NORTH END	SHIM GRAY/SILVER	YES - 85%	GOOD	Low
20S	SHIM - NORTH END	SHIM GRAY/SILVER	YES - 85%	GOOD	Low
21PW	NW END OF BRIDGE	PIPE WRAP	YES - 70%	GOOD	Medium
22PW	NW END OF BRIDGE	PIPE WRAP	YES - 70%	GOOD	Medium
23PW	NW END OF BRIDGE	PIPE WRAP	YES - 70%	GOOD	Medium

*THE LABORATORY REPORT SHOWS THIS SAMPLE AS 13C, IT IS A SHIM SAMPLE AND THEREFORE 13S.

A=Asphalt Sample; C=Concrete Sample; EF=Expansion Joint Sample; PW=PIPE WRAP; ND=No asbestos detected; N/A=Not Applicable.

Analytical documentation is in Appendix B. Asbestos sample locations are depicted on the attached Figures.

Bulk sample analyses completed by polarized light microscopy (PLM)

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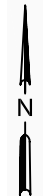
FIGURES



FILEPATH: \\CADD\PROJECTS\2010\CatTrans\AECOM\LAN\Colton-UP.dwg |resendtz| Oct 18, 2010 at 15:38 |Layout: 1-SLM




CALIFORNIA

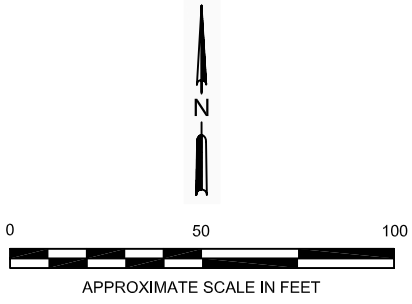
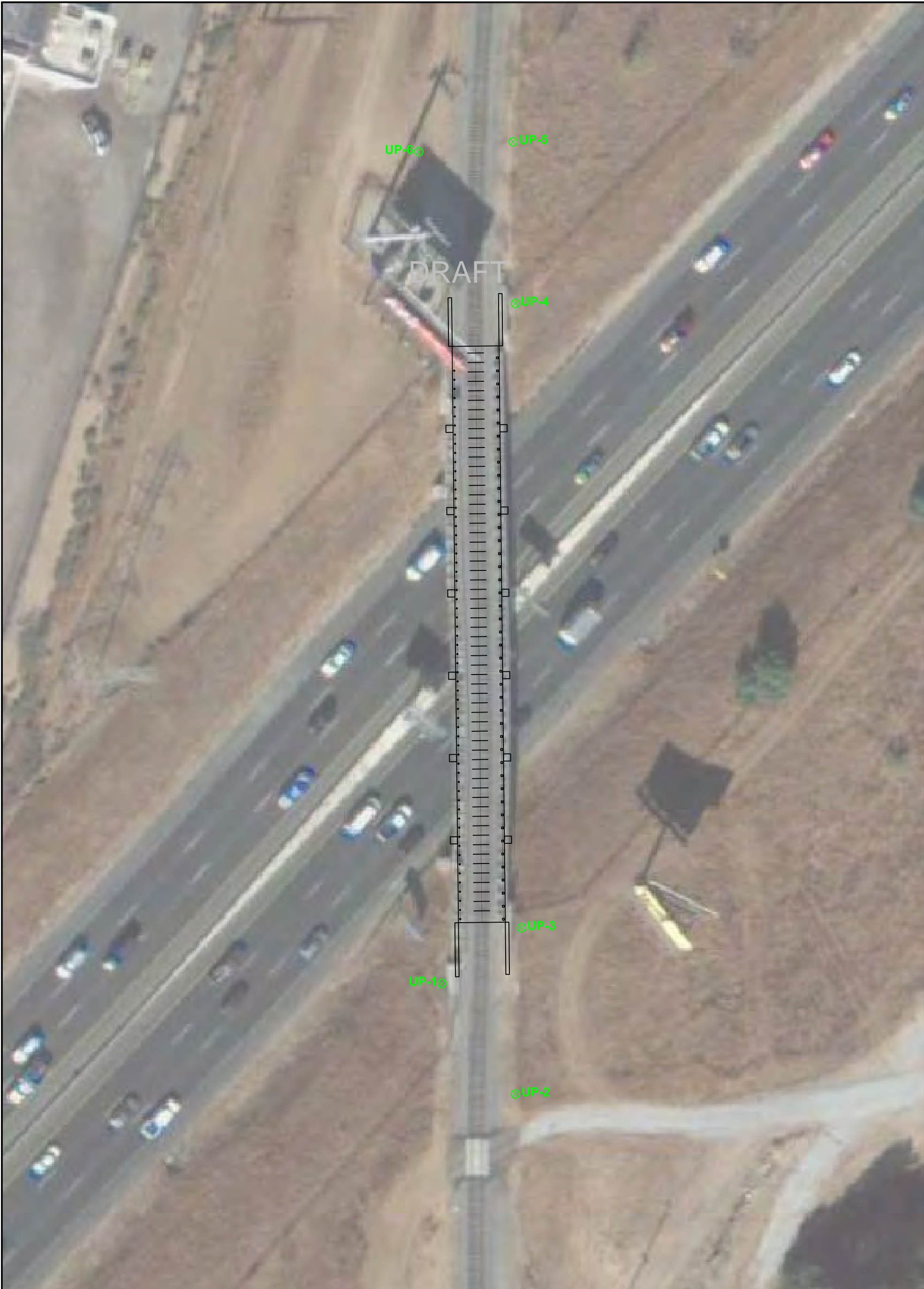


APPROXIMATE SCALE IN FEET

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 Stantec 25864-F BUSINESS CENTER DRIVE REDLANDS, CALIFORNIA 92374 PHONE: (909) 335-6116 FAX: (909) 335-6120	PREPARED FOR: AECOM / LAN ENGINEERING CORP. I-215 BI-COUNTY HOV PROJECT UP BRIDGE SAN BERNARDINO COUNTY, CALIFORNIA		SITE LOCATION MAP UP RAILWAY OVERCROSSING BRIDGE WITH INTERSTATE 215		FIGURE: 1
	JOB NUMBER: 185802086	DRAWN BY: JCR	CHECKED BY: AP	APPROVED BY: AP	DATE: 10/5/10


FILEPATH: \\CADD\PROJECTS\2010\CalTrans\AECOM-LAN\Colton-UP.dwg [resend] [Oct 18, 2010 at 15:38] [Layout: 2-UP



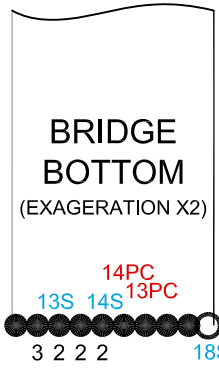
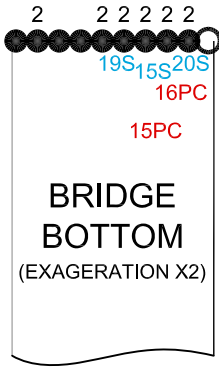
LEGEND

⊗ SOIL SAMPLE LOCATIONS

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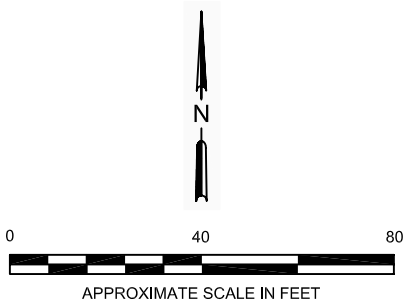
 25864-F BUSINESS CENTER DRIVE REDLANDS, CALIFORNIA 92374 PHONE: (909) 335-6116 FAX: (909) 335-6120	PREPARED FOR: AECOM / LAN ENGINEERING CORP. I-215 BI-COUNTY HOV PROJECT UP BRIDGE COLTON, CALIFORNIA		SOIL SAMPLE LOCATIONS UP RAILWAY OVERCROSSING BRIDGE WITH INTERSTATE 215		FIGURE: 2
	JOB NUMBER: 185802086	DRAWN BY: JCR	CHECKED BY: AP	APPROVED BY: AP	DATE: 10/6/10

FILEPATH: \\CADD\PROJECTS\2010\CatTrans\AECOM-LAN\Colton-UP.dwg [resendiz] Oct 18, 2010 at 15:39 | Layout: 3-S_UP



LEGEND

- SHIMS
- SUPPORT BEAMS (NO SHIMS)
- SAMPLES
 - PC -PAINT CHIP
 - C -CONCRETE
 - E -EXPANSION JOINT FELT
 - S -SHIM
 - PW -PIPE WRAP (INSULATION)



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<p>25864-F BUSINESS CENTER DRIVE REDLANDS, CALIFORNIA 92374 PHONE: (909) 335-6116 FAX: (909) 335-6120</p>	PREPARED FOR: AECOM / LAN ENGINEERING CORP. I-215 BI-COUNTY HOV PROJECT UP BRIDGE COLTON, CALIFORNIA		LBP & ACM SAMPLE LOCATIONS UP RAILWAY OVERCROSSING BRIDGE WITH INTERSTATE 215		FIGURE: 3
	JOB NUMBER: 185802086	DRAWN BY: JCR	CHECKED BY: AP	APPROVED BY: AP	DATE: 9/8/10

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APPENDIX A
ANALYTICAL LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS



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Microbac Laboratories, Inc.

SOUTHERN CALIFORNIA DIVISION
 1401 RESEARCH PARK DRIVE, SUITE 100
 RIVERSIDE CA, 92507
 951-779-0310 FAX 951-779-0344
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FDA#	2030513
LA City#	10159
ELAP#s	2746
	2750
	2747
	2122

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Cynthia Olson, Division Manager
Signature / Date	 Cynthia Olson, Division Manager 09/16/2010 14:15:31
Laboratory Job No. (Certificate of Analysis No.)	1009-00055
Project Name / No.	AECOM-I 215 HOV PROJECT 185802086
Dates Sampled (from/to)	09/02/10 To 09/02/10
Dates Received (from/to)	09/02/10 To 09/02/10
Dates Reported (from/to)	09/16/10 To 9/16/2010
Chains of Custody Received	Yes

Comments:

Subcontracting
 Organic Analyses
 12 EPA 8270 sample(s) reported by technician CEL were contracted to CALSCIENCE ENV LABORATORY
 All results for sub-contracted analyses may be sent separately
 Inorganic Analyses
 No analyses sub-contracted

Sample Condition(s)
 All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
--------	---------	--------	------	-------	----	--------	---------	--------	------	-------	----





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CERTIFICATE OF ANALYSIS

1009-00055

STANTEC
ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 BNSF-1 0.5-1'							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	12.8		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	56.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	10.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	5.22		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	30.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	59.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	9.47		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	24.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	123		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	1.30		mg/Kg	EPA 7471A	10	0.200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	84		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	86		%REC	EPA 8081A/8082		50-150	09/08/10	CEO

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced, wholly or in part, for advertising or other purposes without approval from the laboratory.

USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

MEMBER





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CERTIFICATE OF ANALYSIS

1009-0055

STANTEC
 ANNE PEREZ
 25864-F BUSINESS CENTER DRIVE
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Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 BNSF-1 1.5-2'				Date & Time Sampled:		09/02/10	@ 10:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	2.77		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	73.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	9.59		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.26		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	9.63		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.97		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	7.57		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	26.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	30.5		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0378		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 003 BNSF-2 0.5-1'				Date & Time Sampled:		09/02/10	@ 10:05	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	22.4		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	55.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	13.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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1009-00055

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25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 BNSF-2 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:05	
.....continued								
Cobalt	5.87		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	36.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	25.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	13.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	25.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	50.4		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0396		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	73		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	70		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 004 BNSF-2 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:15	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	16.6		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	47.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 BNSF-2 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:15	
.....continued								
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	27.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	5.12		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	19.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	15.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	19.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	22.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	32.1		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0237		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 005 BNSF-3 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:15	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	7.11		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	43.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	9.46		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	4.40		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	15.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	15.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	7.50		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 BNSF-3 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:15	
.....continued								
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	20.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	32.1		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0228		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	81		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	76		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 006 BNSF-3 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:30	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	15.6		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	49.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	9.06		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	5.04		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	16.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	13.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 BNSF-3 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:30	
.....continued								
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	8.52		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	23.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	39.0		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0257		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO

Sample: 007 BNSF-4 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:20	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	12.4		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	53.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	27.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.17		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	22.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	12.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	16.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	24.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	33.4		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0548		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 BNSF-4 0.5-1'							Date & Time Sampled: 09/02/10 @ 10:20	
.....continued								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	85		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	101		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 008 BNSF-4 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:30	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	1.33		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	13.3		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	59.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	28.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.58		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	17.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	8.80		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	16.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	28.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 BNSF-4 1.5-2'							Date & Time Sampled: 09/02/10 @ 10:30	
.....continued								
Zinc	34.7		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0682		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 009 BNSF-5 0.5-1'							Date & Time Sampled: 09/02/10 @ 11:15	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	1.11		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	14.0		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	22.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	5.90		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	2.84		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	26.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	11.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	5.81		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	12.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	20.1		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0390		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO

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1009-00055

STANTEC
ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 BNSF-5 0.5-1'							Date & Time Sampled: 09/02/10 @ 11:15	
.....continued								
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	66		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	84		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 010 BNSF-5 1.5-2'							Date & Time Sampled: 09/02/10 @ 11:30	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	1.34		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	61.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	9.48		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.07		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	9.04		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	3.47		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	7.67		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	24.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	27.9		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 011 BNSF-6 0.5-1'							Date & Time Sampled: 09/02/10 @ 11:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								



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ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
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 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 011 BNSF-6 0.5-1'							Date & Time Sampled: 09/02/10 @ 11:45	
.....continued								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	2.67		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	4.42		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	58.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	0.584		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	34.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	5.37		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	142		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	46.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	4.76		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	17.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	25.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	71.7		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0432		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	77		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	78		%REC	EPA 8081A/8082		50-150	09/08/10	CEO



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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 012 BNSF-6 1.5-2'							Date & Time Sampled: 09/02/10 @ 12:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	2.55		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	2.52		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	54.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	10.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.19		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	19.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	28.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	9.65		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	26.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	29.8		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO

Sample: 013 EB-1							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1		09/09/10	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Barium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB

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25864-F BUSINESS CENTER DRIVE
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Date Reported 09/16/10
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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 EB-1							Date & Time Sampled: 09/02/10 @ 9:45	
.....continued								
Copper	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Lead	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Silver	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Thallium	<0.100		mg/L	EPA 6010B	1	0.100	09/09/10	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1	0.0400	09/09/10	TLB
Mercury	<0.000200		mg/L	EPA 7471A	1	0.000200	09/15/10	AXO
Sample: 014 EB-2							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1		09/09/10	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Barium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Copper	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Lead	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Silver	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Thallium	<0.100		mg/L	EPA 6010B	1	0.100	09/09/10	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1	0.0400	09/09/10	TLB

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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 EB-2							Date & Time Sampled: 09/02/10 @ 9:45	
.....continued								
Mercury	<0.000200		mg/L	EPA 7471A	1	0.000200	09/15/10	AXO
Sample: 015 UP-1 0.5-1'							Date & Time Sampled: 09/02/10 @ 13:55	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	8.05		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	66.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	14.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	7.52		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	13.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	497		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	11.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	30.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	97.0		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 UP-1 0.5-1'							Date & Time Sampled: 09/02/10 @ 13:55	
.....continued								
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	74		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	76		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 016 UP-1 1.5-2'							Date & Time Sampled: 09/02/10 @ 14:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	3.41		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	66.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	13.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	7.36		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	12.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.99		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	10.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	30.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	33.1		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 017 UP-2 0.5-1'							Date & Time Sampled: 09/02/10 @ 14:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB

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CERTIFICATE OF ANALYSIS

1009-00055

STANTEC
 ANNE PEREZ
 25864-F BUSINESS CENTER DRIVE
 REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 017 UP-2 0.5-1'							Date & Time Sampled: 09/02/10 @ 14:00	
.....continued								
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	3.19		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	65.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	12.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	6.81		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	11.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.66		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	10.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	29.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	31.6		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0722		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	52		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	77		%REC	EPA 8081A/8082		50-150	09/08/10	CEO

Sample: 018 **UP-2 1.5-2'**

Date & Time Sampled: 09/02/10 @ 14:20

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 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 018 UP-2 1.5-2'							Date & Time Sampled: 09/02/10 @ 14:20	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	8.71		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	77.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	18.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	7.69		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	16.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	12.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	14.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	32.5		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	61.6		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	0.0343		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO

Sample: 019 UP-3 0.5-1'							Date & Time Sampled: 09/02/10 @ 14:10	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	2.93		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	72.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	13.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	7.41		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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 Customer P.O. 185802086

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 UP-3 0.5-1'							Date & Time Sampled: 09/02/10 @ 14:10	
.....continued								
Copper	12.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.33		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	11.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	31.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	31.5		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	45		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	85		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 020 UP-3 1.5-2'							Date & Time Sampled: 09/02/10 @ 14:15	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	2.02		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	65.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	0.510		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB

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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 020 UP-3 1.5-2'							Date & Time Sampled: 09/02/10 @ 14:15	
.....continued								
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	15.2		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	8.12		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	13.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.73		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	11.7		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	34.3		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	33.9		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/10/10	AXO
Sample: 021 UP-4 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:50	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Arsenic	2.84		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Barium	93.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Chromium	13.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cobalt	7.04		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Copper	12.9		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Lead	8.95		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Nickel	10.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 021 UP-4 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:50	
.....continued								
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Vanadium	29.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Zinc	33.5		mg/Kg	EPA 6010B	1	5.00	09/09/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	36		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	67		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 022 UP-4 1.5-2'							Date & Time Sampled: 09/02/10 @ 13:00	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Arsenic	5.44		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Barium	80.4		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Chromium	11.8		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cobalt	6.33		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Copper	12.0		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Lead	7.63		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB

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1009-00055

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ANNE PEREZ
25864-F BUSINESS CENTER DRIVE
REDLANDS, CA 92374-4515

Date Reported 09/16/10
 Date Received 09/02/10
 Invoice No. 61331
 Cust # 1003
 Permit Number
 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 022 UP-4 1.5-2'							Date & Time Sampled: 09/02/10 @ 13:00	
.....continued								
Nickel	9.13		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Vanadium	26.6		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Zinc	35.5		mg/Kg	EPA 6010B	1	5.00	09/09/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
Sample: 023 UP-5 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:30	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	1.27		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Arsenic	11.7		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Barium	91.5		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Chromium	14.6		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cobalt	7.57		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Copper	20.2		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Lead	17.9		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Nickel	11.3		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Vanadium	33.4		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Zinc	77.1		mg/Kg	EPA 6010B	1	5.00	09/09/10	TLB
Mercury	0.0452		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO

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 Customer P.O. 185802086

Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 023 UP-5 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:30	
.....continued								
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	71		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	90		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 024 UP-5 1.5-2'							Date & Time Sampled: 09/02/10 @ 12:40	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Arsenic	4.03		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Barium	92.0		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Chromium	14.0		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Cobalt	7.47		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Copper	17.5		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Lead	11.2		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Nickel	11.1		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/09/10	TLB
Vanadium	30.5		mg/Kg	EPA 6010B	1	0.500	09/09/10	TLB
Zinc	54.9		mg/Kg	EPA 6010B	1	5.00	09/09/10	TLB

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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 024 UP-5 1.5-2'							Date & Time Sampled: 09/02/10 @ 12:40	
.....continued								
Mercury	0.0346		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
Sample: 025 UP-6 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:55	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	3.20		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	107		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	0.522		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	17.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	8.77		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	15.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.63		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	12.9		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	38.1		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	36.0		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
[PCBs]								
Ultrasonic Extraction	Complete			EPA 3550	1		09/07/10	AXO
Aroclor 1016	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1221	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1232	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1242	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1248	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
Aroclor 1254	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO

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Project: AECOM-I 215 HOV PROJECT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 UP-6 0.5-1'							Date & Time Sampled: 09/02/10 @ 12:55	
.....continued								
Aroclor 1260	<0.050		mg/Kg	EPA 8082	1	0.050	09/08/10	CEO
[Surrogates]								
Tetrachloro-m-xylene	59		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Decachlorobiphenyl	75		%REC	EPA 8081A/8082		50-150	09/08/10	CEO
Sample: 026 UP-6 1.5-2'							Date & Time Sampled: 09/02/10 @ 13:05	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1		09/10/10	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Arsenic	3.08		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Barium	73.8		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Chromium	15.4		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Cobalt	8.14		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Copper	13.0		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Lead	4.16		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Nickel	11.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1	1.00	09/10/10	TLB
Vanadium	34.6		mg/Kg	EPA 6010B	1	0.500	09/10/10	TLB
Zinc	33.0		mg/Kg	EPA 6010B	1	5.00	09/10/10	TLB
Mercury	<0.0200		mg/Kg	EPA 7471A	1	0.0200	09/09/10	AMJ
Sample: 027 EB-3							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1		09/09/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 027 EB-3							Date & Time Sampled: 09/02/10 @ 9:45	
.....continued								
Antimony	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Barium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Copper	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Lead	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Silver	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Thallium	<0.100		mg/L	EPA 6010B	1	0.100	09/09/10	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1	0.0400	09/09/10	TLB
Mercury	<0.000200		mg/L	EPA 7471A	1	0.000200	09/15/10	AXO

Sample: 028 EB-4							Date & Time Sampled: 09/02/10 @ 9:45	
[Metals Title 22 & Hg]								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1		09/09/10	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Barium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1	0.00500	09/09/10	TLB
Copper	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Lead	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 028 EB-4							Date & Time Sampled: 09/02/10 @ 9:45	
.....continued								
Molybdenum	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Silver	<0.0200		mg/L	EPA 6010B	1	0.0200	09/09/10	TLB
Thallium	<0.100		mg/L	EPA 6010B	1	0.100	09/09/10	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1	0.0100	09/09/10	TLB
Zinc	<0.0400		mg/L	EPA 6010B	1	0.0400	09/09/10	TLB
Mercury	<0.000200		mg/L	EPA 7471A	1	0.000200	09/15/10	AXO

Respectfully Submitted:



 Cynthia Olson- Division Manager

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
 B1 = BOD dilution water is over specifications . The reported result may be biased high.
 D = Surrogate recoveries are not calculated due to sample dilution.
 E = Estimated value; Value exceeds calibration level of instrument.
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference.
 J = Analyte concentration detected between RL and MDL.
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
 S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
 RL = Reporting Limit, Adjusted by DF
 MDL = Method Detection Limit, Adjusted by DF
 Qual = Qualifier
 Tech = Technician

As regulatory limits change frequently, Microbac advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Cynthia Olson, Division Manager at 951.779.0310. You may also contact both James Nokes, President and Robert Morgan, Chief Operating Officer at president@microbac.com.



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Microbac Laboratories, Inc.
 SOUTHERN CALIFORNIA DIVISION
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 www.microbac.com social@microbac.com

FDA#	2030513
LA City#	10159
ELAP#s	2373
	2562
	2665
	2479
	2122

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QUALITY CONTROL DATA REPORT

STANTEC
 REDLANDS, CA 92374-4515

1009-00055

Date Reported **09/16/2010**
 Date Received **09/02/2010**
 Date Sampled **09/02/2010**
 Invoice No. **61331**
 Customer # **1003**
 Customer P.O. **185802086**

Project: AECOM-I 215 HOV PROJECT

Method # EPA 6010B

QC Reference # 24791 Date Analyzed: 9/9/2010 Technician: TLB

Samples 013 014 027 028

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	103	109	5.5	98	105	6.9
Arsenic	100	105	5.4	104	110	5.9
Barium	104	110	4.7	104	110	5.5
Beryllium	100	105	5.1	96	108	11.3
Cadmium	103	108	4.8	97	101	3.8
Chromium	100	105	4.9	94	99	5.5
Cobalt	104	110	5.8	98	103	4.3
Copper	104	108	3.8	101	107	5.7
Lead	99	104	5.3	93	99	6.4
Molybdenum	104	111	6.0	110	117	5.5
Nickel	106	112	5.2	109	115	5.1
Selenium	98	104	5.5	100	103	3.3
Silver	96	103	6.6	94	99	5.5
Thallium	98	103	5.0	88	96	9.2
Vanadium	101	106	4.6	98	104	6.1
Zinc	110	112	1.6	108	112	3.5

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 25	0 - 25
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

QC Reference # 24836 Date Analyzed: 9/10/2010 Technician: TLB

Samples 021 022 023 024 025 026

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	81	92	13.3	88	78	12.3
Arsenic	92	107	14.8	101	88	13.4
Barium	95	109	14.3	167	146	13.6
Beryllium	85	104	19.4	89	85	5.1
Cadmium	89	103	14.1	89	84	6.3
Chromium	85	99	14.7	99	90	9.4
Cobalt	90	104	14.6	96	84	12.5
Copper	81	94	14.7	100	92	7.6
Lead	86	100	14.8	95	84	11.7
Molybdenum	89	103	14.0	92	82	10.9
Nickel	90	104	14.7	96	88	8.8
Selenium	86	99	13.2	86	77	10.5
Silver	76	82	7.4	76	71	6.3
Thallium	85	98	14.3	83	75	10.1
Vanadium	85	99	14.9	122	109	10.6
Zinc	92	106	14.7	143	127	12.2

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

QC Reference # 24861 Date Analyzed: 9/10/2010 Technician: TLB

Samples 001 002 003 004 005 006 007 008 009 010 011 012 015 016 017 018 019 020



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FDA#	2030513
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QUALITY CONTROL DATA REPORT

STANTEC

1009-00055

Date Reported 09/16/2010
 Date Received 09/02/2010
 Date Sampled 09/02/2010

Project: AECOM-I 215 HOV PROJECT

Method # EPA 6010B

QC Reference # 24861 Date Analyzed: 9/10/2010 Technician: TLB

Samples 001 002 003 004 005 006 007 008 009 010 011 012 015 016 017 018 019 020

Results

	LCS %REC	LCS %DUP	LCS %RPD
Antimony	94	94	0.1
Arsenic	104	101	2.5
Barium	100	98	2.2
Beryllium	98	97	1.4
Cadmium	101	99	2.1
Chromium	98	97	1.6
Cobalt	98	97	1.6
Copper	96	94	1.9
Lead	94	93	1.2
Molybdenum	98	97	0.9
Nickel	100	98	1.3
Selenium	106	105	0.8
Silver	77	75	1.9
Thallium	95	94	0.8
Vanadium	98	96	1.9
Zinc	104	102	2.0

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20

Method # EPA 7471A

QC Reference # 24776 Date Analyzed: 9/9/2010 Technician: AMJ

Samples 021 022 023 024 025 026

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	106	100	5	115	117	2

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 25	0 - 25

QC Reference # 24778 Date Analyzed: 9/10/2010 Technician: AXO

Samples 001 002 003 004 005 006 007 008 009 010 011 012 015 016 017 018 019 020

Results

	LCS %DUP	SPIKE %RPD
Mercury	84	5.0

Control Ranges

SPIKE %RPD
0 - 25

QC Reference # 24964 Date Analyzed: 9/15/2010 Technician: AXO

Samples 013 014 027 028

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	102	102	6	73	76	5

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
70 - 130	0 - 25	0 - 25

Method # EPA 8081A/8082

QC Reference # 24829 Date Analyzed: 9/8/2010 Technician: CEO



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FDA#	2030513
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QUALITY CONTROL DATA REPORT

STANTEC

1009-00055

Date Reported 09/16/2010
 Date Received 09/02/2010
 Date Sampled 09/02/2010

Project: AECOM-I 215 HOV PROJECT

Method #	EPA 8081A/8082											
QC Reference #	24829	Date Analyzed: 9/8/2010					Technician: CEO					
Samples	001	003	005	007	009	011	015	017	019	021	023	025
Results							Control Ranges					
	BLKSRR%R						BLKSRR%REC					
	EC											
Decachlorobiphenyl	92						50 - 150					
Tetrachloro-m-xylene	84						50 - 150					

Method #	EPA 8082											
QC Reference #	24829	Date Analyzed: 9/8/2010					Technician: CEO					
Samples	001	003	005	007	009	011	015	017	019	021	023	025
Results							Control Ranges					
	LCS %REC		LCS %DUP		LCS %RPD		SPIKE %REC		SPIKE %DUP		SPIKE %RPD	
Aroclor 1016	93		90		2.3		99		92		8.2	
	70 - 130		0 - 25		0 - 25							

Method blank results

Ref	Test Name	Result	Qualif	Units	Ref	Test Name	Result	Qualif	Units
	Arsenic	0.00616		mg/L					
	Copper	0.00409		mg/L					
	Molybdenum	0.00476		mg/L					
24836	Antimony	0.508		mg/Kg					
	Nickel	0.297		mg/Kg					

Respectfully Submitted:

Cynthia Olson, Division Manager

For any feedback concerning our services, please contact Cynthia Olson, Division Manager at 951.779.0310. You may also contact both James Nokes, President and Robert Morgan, Chief Operating Officer at president@microbac.com.



DRAFT



September 13, 2010

Marilu Escher
Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Subject: **Calscience Work Order No.: 10-09-0402**
Client Reference: AECOM-I 215 HOV Project / 1009-00055

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/7/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak", is written over a light gray rectangular background.

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

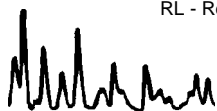
Page 1 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-1 0.5-1'	10-09-0402-1-A	09/02/10 09:45	Solid	GC/MS SS	09/08/10	09/10/10 19:50	100908L06

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	1.0	2		2,4-Dimethylphenol	ND	1.0	2	
Acenaphthylene	ND	1.0	2		4,6-Dinitro-2-Methylphenol	ND	5.0	2	
Aniline	ND	1.0	2		2,4-Dinitrophenol	ND	5.0	2	
Anthracene	ND	1.0	2		2,4-Dinitrotoluene	ND	1.0	2	
Azobenzene	ND	1.0	2		2,6-Dinitrotoluene	ND	1.0	2	
Benzidine	ND	20	2		Fluoranthene	ND	1.0	2	
Benzo (a) Anthracene	ND	1.0	2		Fluorene	ND	1.0	2	
Benzo (a) Pyrene	ND	1.0	2		Hexachloro-1,3-Butadiene	ND	1.0	2	
Benzo (b) Fluoranthene	ND	1.0	2		Hexachlorobenzene	ND	1.0	2	
Benzo (g,h,i) Perylene	ND	1.0	2		Hexachlorocyclopentadiene	ND	5.0	2	
Benzo (k) Fluoranthene	ND	1.0	2		Hexachloroethane	ND	1.0	2	
Benzoic Acid	ND	5.0	2		Indeno (1,2,3-c,d) Pyrene	ND	1.0	2	
Benzyl Alcohol	ND	1.0	2		Isophorone	ND	1.0	2	
Bis(2-Chloroethoxy) Methane	ND	1.0	2		2-Methylnaphthalene	ND	1.0	2	
Bis(2-Chloroethyl) Ether	ND	5.0	2		1-Methylnaphthalene	ND	1.0	2	
Bis(2-Chloroisopropyl) Ether	ND	1.0	2		2-Methylphenol	ND	1.0	2	
Bis(2-Ethylhexyl) Phthalate	ND	1.0	2		3/4-Methylphenol	ND	1.0	2	
4-Bromophenyl-Phenyl Ether	ND	1.0	2		N-Nitroso-di-n-propylamine	ND	1.0	2	
Butyl Benzyl Phthalate	ND	1.0	2		N-Nitrosodimethylamine	ND	1.0	2	
4-Chloro-3-Methylphenol	ND	1.0	2		N-Nitrosodiphenylamine	ND	1.0	2	
4-Chloroaniline	ND	1.0	2		Naphthalene	ND	1.0	2	
2-Chloronaphthalene	ND	1.0	2		4-Nitroaniline	ND	1.0	2	
2-Chlorophenol	ND	1.0	2		3-Nitroaniline	ND	1.0	2	
4-Chlorophenyl-Phenyl Ether	ND	1.0	2		2-Nitroaniline	ND	1.0	2	
Chrysene	ND	1.0	2		Nitrobenzene	ND	5.0	2	
Di-n-Butyl Phthalate	ND	1.0	2		4-Nitrophenol	ND	1.0	2	
Di-n-Octyl Phthalate	ND	1.0	2		2-Nitrophenol	ND	1.0	2	
Dibenz (a,h) Anthracene	ND	1.0	2		Pentachlorophenol	ND	5.0	2	
Dibenzofuran	ND	1.0	2		Phenanthrene	ND	1.0	2	
1,2-Dichlorobenzene	ND	1.0	2		Phenol	ND	1.0	2	
1,3-Dichlorobenzene	ND	1.0	2		Pyrene	ND	1.0	2	
1,4-Dichlorobenzene	ND	1.0	2		Pyridine	ND	1.0	2	
3,3'-Dichlorobenzidine	ND	20	2		1,2,4-Trichlorobenzene	ND	1.0	2	
2,4-Dichlorophenol	ND	1.0	2		2,4,6-Trichlorophenol	ND	1.0	2	
Diethyl Phthalate	ND	1.0	2		2,4,5-Trichlorophenol	ND	1.0	2	
Dimethyl Phthalate	ND	1.0	2						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	79	38-134			2-Fluorophenol	72	42-120		
Nitrobenzene-d5	68	42-150			p-Terphenyl-d14	84	35-167		
Phenol-d6	71	46-118			2,4,6-Tribromophenol	74	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

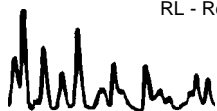
Project: AECOM-I 215 HOV Project / 1009-00055

Page 2 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-2 0.5-1'	10-09-0402-2-A	09/02/10 10:05	Solid	GC/MS SS	09/08/10	09/10/10 19:50	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	65	38-134			2-Fluorophenol	79	42-120		
Nitrobenzene-d5	73	42-150			p-Terphenyl-d14	73	35-167		
Phenol-d6	89	46-118			2,4,6-Tribromophenol	66	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

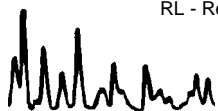
Project: AECOM-I 215 HOV Project / 1009-00055

Page 3 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-3 0.5-1'	10-09-0402-3-A	09/02/10 10:15	Solid	GC/MS SS	09/08/10	09/10/10 20:16	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	57	38-134			2-Fluorophenol	68	42-120		
Nitrobenzene-d5	63	42-150			p-Terphenyl-d14	63	35-167		
Phenol-d6	77	46-118			2,4,6-Tribromophenol	54	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

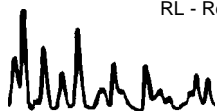
Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-4 0.5-1'	10-09-0402-4-A	09/02/10 10:20	Solid	GC/MS SS	09/08/10	09/10/10 20:43	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	77	38-134			2-Fluorophenol	90	42-120		
Nitrobenzene-d5	85	42-150			p-Terphenyl-d14	96	35-167		
Phenol-d6	101	46-118			2,4,6-Tribromophenol	77	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

Page 5 of 13

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-5 0.5-1'	10-09-0402-5-A	09/02/10 11:15	Solid	GC/MS SS	09/08/10	09/10/10 21:36	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	69	38-134			2-Fluorophenol	81	42-120		
Nitrobenzene-d5	75	42-150			p-Terphenyl-d14	90	35-167		
Phenol-d6	91	46-118			2,4,6-Tribromophenol	67	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055


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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BNSF-6 0.5-1'	10-09-0402-6-A	09/02/10 11:45	Solid	GC/MS SS	09/08/10	09/10/10 20:17	100908L06

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	1.0	2		2,4-Dimethylphenol	ND	1.0	2	
Acenaphthylene	ND	1.0	2		4,6-Dinitro-2-Methylphenol	ND	5.0	2	
Aniline	ND	1.0	2		2,4-Dinitrophenol	ND	5.0	2	
Anthracene	ND	1.0	2		2,4-Dinitrotoluene	ND	1.0	2	
Azobenzene	ND	1.0	2		2,6-Dinitrotoluene	ND	1.0	2	
Benzidine	ND	20	2		Fluoranthene	ND	1.0	2	
Benzo (a) Anthracene	ND	1.0	2		Fluorene	ND	1.0	2	
Benzo (a) Pyrene	ND	1.0	2		Hexachloro-1,3-Butadiene	ND	1.0	2	
Benzo (b) Fluoranthene	ND	1.0	2		Hexachlorobenzene	ND	1.0	2	
Benzo (g,h,i) Perylene	ND	1.0	2		Hexachlorocyclopentadiene	ND	5.0	2	
Benzo (k) Fluoranthene	ND	1.0	2		Hexachloroethane	ND	1.0	2	
Benzoic Acid	ND	5.0	2		Indeno (1,2,3-c,d) Pyrene	ND	1.0	2	
Benzyl Alcohol	ND	1.0	2		Isophorone	ND	1.0	2	
Bis(2-Chloroethoxy) Methane	ND	1.0	2		2-Methylnaphthalene	ND	1.0	2	
Bis(2-Chloroethyl) Ether	ND	5.0	2		1-Methylnaphthalene	ND	1.0	2	
Bis(2-Chloroisopropyl) Ether	ND	1.0	2		2-Methylphenol	ND	1.0	2	
Bis(2-Ethylhexyl) Phthalate	ND	1.0	2		3/4-Methylphenol	ND	1.0	2	
4-Bromophenyl-Phenyl Ether	ND	1.0	2		N-Nitroso-di-n-propylamine	ND	1.0	2	
Butyl Benzyl Phthalate	ND	1.0	2		N-Nitrosodimethylamine	ND	1.0	2	
4-Chloro-3-Methylphenol	ND	1.0	2		N-Nitrosodiphenylamine	ND	1.0	2	
4-Chloroaniline	ND	1.0	2		Naphthalene	ND	1.0	2	
2-Chloronaphthalene	ND	1.0	2		4-Nitroaniline	ND	1.0	2	
2-Chlorophenol	ND	1.0	2		3-Nitroaniline	ND	1.0	2	
4-Chlorophenyl-Phenyl Ether	ND	1.0	2		2-Nitroaniline	ND	1.0	2	
Chrysene	ND	1.0	2		Nitrobenzene	ND	5.0	2	
Di-n-Butyl Phthalate	ND	1.0	2		4-Nitrophenol	ND	1.0	2	
Di-n-Octyl Phthalate	ND	1.0	2		2-Nitrophenol	ND	1.0	2	
Dibenz (a,h) Anthracene	ND	1.0	2		Pentachlorophenol	ND	5.0	2	
Dibenzofuran	ND	1.0	2		Phenanthrene	ND	1.0	2	
1,2-Dichlorobenzene	ND	1.0	2		Phenol	ND	1.0	2	
1,3-Dichlorobenzene	ND	1.0	2		Pyrene	ND	1.0	2	
1,4-Dichlorobenzene	ND	1.0	2		Pyridine	ND	1.0	2	
3,3'-Dichlorobenzidine	ND	20	2		1,2,4-Trichlorobenzene	ND	1.0	2	
2,4-Dichlorophenol	ND	1.0	2		2,4,6-Trichlorophenol	ND	1.0	2	
Diethyl Phthalate	ND	1.0	2		2,4,5-Trichlorophenol	ND	1.0	2	
Dimethyl Phthalate	ND	1.0	2						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	78	38-134			2-Fluorophenol	71	42-120		
Nitrobenzene-d5	69	42-150			p-Terphenyl-d14	90	35-167		
Phenol-d6	70	46-118			2,4,6-Tribromophenol	80	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg


Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-1 0.5-1'	10-09-0402-7-A	09/02/10 13:55	Solid	GC/MS SS	09/08/10	09/10/10 18:03	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	73	38-134			2-Fluorophenol	83	42-120		
Nitrobenzene-d5	81	42-150			p-Terphenyl-d14	81	35-167		
Phenol-d6	94	46-118			2,4,6-Tribromophenol	68	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

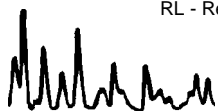
Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-2 0.5-1'	10-09-0402-8-A	09/02/10 14:00	Solid	GC/MS SS	09/08/10	09/10/10 18:30	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	69	38-134			2-Fluorophenol	82	42-120		
Nitrobenzene-d5	77	42-150			p-Terphenyl-d14	78	35-167		
Phenol-d6	95	46-118			2,4,6-Tribromophenol	62	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

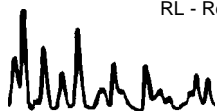
Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-3 0.5-1'	10-09-0402-9-A	09/02/10 14:10	Solid	GC/MS SS	09/08/10	09/10/10 18:56	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	73	38-134			2-Fluorophenol	84	42-120		
Nitrobenzene-d5	80	42-150			p-Terphenyl-d14	82	35-167		
Phenol-d6	97	46-118			2,4,6-Tribromophenol	65	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-4 0.5-1'	10-09-0402-10-A	09/02/10 12:50	Solid	GC/MS SS	09/08/10	09/10/10 19:23	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	74	38-134			2-Fluorophenol	86	42-120		
Nitrobenzene-d5	82	42-150			p-Terphenyl-d14	85	35-167		
Phenol-d6	96	46-118			2,4,6-Tribromophenol	69	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-5 0.5-1'	10-09-0402-11-A	09/02/10 12:30	Solid	GC/MS SS	09/08/10	09/10/10 21:09	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	75	38-134			2-Fluorophenol	85	42-120		
Nitrobenzene-d5	81	42-150			p-Terphenyl-d14	91	35-167		
Phenol-d6	95	46-118			2,4,6-Tribromophenol	67	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

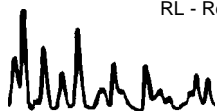
Project: AECOM-I 215 HOV Project / 1009-00055

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
UP-6 0.5-1'	10-09-0402-12-A	09/02/10 12:55	Solid	GC/MS SS	09/08/10	09/11/10 12:28	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>DF</u>	<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>DF</u>	<u>Qual</u>
2-Fluorobiphenyl	73	38-134			2-Fluorophenol	84	42-120		
Nitrobenzene-d5	81	42-150			p-Terphenyl-d14	82	35-167		
Phenol-d6	95	46-118			2,4,6-Tribromophenol	64	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



DRAFT

Analytical Report



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C
Units: mg/kg

Project: AECOM-I 215 HOV Project / 1009-00055

Page 13 of 13

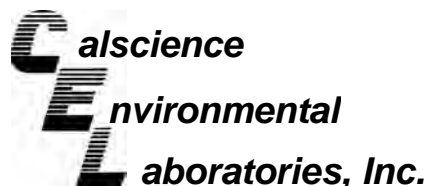
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-549-1,489	N/A	Solid	GC/MS SS	09/08/10	09/10/10 13:10	100908L06

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acenaphthene	ND	0.50	1		2,4-Dimethylphenol	ND	0.50	1	
Acenaphthylene	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
Aniline	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Anthracene	ND	0.50	1		2,4-Dinitrotoluene	ND	0.50	1	
Azobenzene	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
Benzidine	ND	10	1		Fluoranthene	ND	0.50	1	
Benzo (a) Anthracene	ND	0.50	1		Fluorene	ND	0.50	1	
Benzo (a) Pyrene	ND	0.50	1		Hexachloro-1,3-Butadiene	ND	0.50	1	
Benzo (b) Fluoranthene	ND	0.50	1		Hexachlorobenzene	ND	0.50	1	
Benzo (g,h,i) Perylene	ND	0.50	1		Hexachlorocyclopentadiene	ND	2.5	1	
Benzo (k) Fluoranthene	ND	0.50	1		Hexachloroethane	ND	0.50	1	
Benzoic Acid	ND	2.5	1		Indeno (1,2,3-c,d) Pyrene	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Isophorone	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		2-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		1-Methylnaphthalene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		2-Methylphenol	ND	0.50	1	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1		3/4-Methylphenol	ND	0.50	1	
4-Bromophenyl-Phenyl Ether	ND	0.50	1		N-Nitroso-di-n-propylamine	ND	0.50	1	
Butyl Benzyl Phthalate	ND	0.50	1		N-Nitrosodimethylamine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Naphthalene	ND	0.50	1	
2-Chloronaphthalene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		3-Nitroaniline	ND	0.50	1	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1		2-Nitroaniline	ND	0.50	1	
Chrysene	ND	0.50	1		Nitrobenzene	ND	2.5	1	
Di-n-Butyl Phthalate	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Di-n-Octyl Phthalate	ND	0.50	1		2-Nitrophenol	ND	0.50	1	
Dibenz (a,h) Anthracene	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
Dibenzofuran	ND	0.50	1		Phenanthrene	ND	0.50	1	
1,2-Dichlorobenzene	ND	0.50	1		Phenol	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Pyrene	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		Pyridine	ND	0.50	1	
3,3'-Dichlorobenzidine	ND	10	1		1,2,4-Trichlorobenzene	ND	0.50	1	
2,4-Dichlorophenol	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Diethyl Phthalate	ND	0.50	1		2,4,5-Trichlorophenol	ND	0.50	1	
Dimethyl Phthalate	ND	0.50	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
2-Fluorobiphenyl	66	38-134			2-Fluorophenol	74	42-120		
Nitrobenzene-d5	69	42-150			p-Terphenyl-d14	70	35-167		
Phenol-d6	81	46-118			2,4,6-Tribromophenol	60	36-132		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



DRAFT



Quality Control - Spike/Spike Duplicate



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: 09/07/10
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C

Project AECOM-I 215 HOV Project / 1009-00055

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-09-0331-1	Solid	GC/MS SS	09/08/10	09/10/10	100908S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acenaphthene	159	157	49-133	2	0-18	3
Acenaphthylene	167	165	50-150	2	0-20	3
Butyl Benzyl Phthalate	208	202	50-150	3	0-20	3
4-Chloro-3-Methylphenol	138	141	50-128	2	0-17	3
2-Chlorophenol	140	131	57-111	6	0-17	3
1,4-Dichlorobenzene	138	136	49-127	1	0-20	3
Dimethyl Phthalate	150	149	50-150	1	0-20	
2,4-Dinitrotoluene	124	117	50-128	6	0-18	
Fluorene	167	165	50-150	1	0-20	3
N-Nitroso-di-n-propylamine	154	146	54-144	5	0-17	3
Naphthalene	151	147	50-150	3	0-20	3
4-Nitrophenol	46	48	30-144	4	0-21	
Pentachlorophenol	0	0	29-113	0	0-22	3
Phenol	150	143	57-123	5	0-16	3
Pyrene	164	158	47-149	4	0-20	3
1,2,4-Trichlorobenzene	142	139	42-132	2	0-20	3

RPD - Relative Percent Difference , CL - Control Limit



DRAFT

Quality Control - LCS/LCS Duplicate



Microbac Laboratories, Inc.
1401 Research Park Drive
Suite 100
Riverside, CA 92507-2111

Date Received: N/A
Work Order No: 10-09-0402
Preparation: EPA 3545
Method: EPA 8270C

Project: AECOM-I 215 HOV Project / 1009-00055

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-549-1,489	Solid	GC/MS SS	09/08/10	09/10/10	100908L06		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Acenaphthene	73	73	59-125	48-136	0	0-15	
Acenaphthylene	77	76	33-145	14-164	2	0-20	
Butyl Benzyl Phthalate	77	75	0-152	0-177	2	0-20	
4-Chloro-3-Methylphenol	79	79	61-121	51-131	1	0-14	
2-Chlorophenol	78	79	60-114	51-123	1	0-15	
1,4-Dichlorobenzene	82	82	61-121	51-131	0	0-21	
Dimethyl Phthalate	70	70	0-112	0-131	0	0-20	
2,4-Dinitrotoluene	65	66	51-141	36-156	1	0-16	
Fluorene	76	76	59-121	49-131	0	0-20	
N-Nitroso-di-n-propylamine	84	85	64-136	52-148	2	0-15	
Naphthalene	77	78	21-133	2-152	1	0-20	
4-Nitrophenol	72	72	38-152	19-171	0	0-31	
Pentachlorophenol	62	61	38-116	25-129	2	0-20	
Phenol	77	78	59-125	48-136	1	0-15	
Pyrene	79	77	51-141	36-156	2	0-14	
1,2,4-Trichlorobenzene	79	79	58-118	48-128	0	0-18	

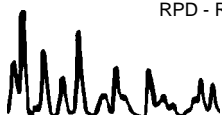
Total number of LCS compounds : 16

Total number of ME compounds : 0

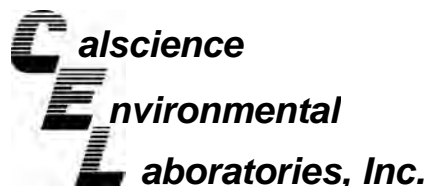
Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



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Glossary of Terms and Qualifiers



Work Order Number: 10-09-0402

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



DRAFT

Southern California Division
 1401 Research Park Drive, Suite 100
 Riverside, CA 92507
 V: 951.779.0310 • 800.798.9336 F: 951.779.0344
 3299 Hill Street, Suite 305
 Signal Hill, CA 90755
 V: 562.498.7005 F: 562.498.8617

Chain of Custody Record

Microbac WO#

100900055

www.microbac.com social@microbac.com

Page 1 of 2

Project No: 1009-00055		Project Name: AECOM-I 215 HOV Project		Analyses Requested (circle appropriate)															
Project Manager: MARILU ESCHER		Phone: 951-779-0310		Turn Around															
Customer Name: (Report and Billing)		Address: (Report and Billing)		<input type="radio"/> 24hr RUSH* <input type="radio"/> 48hr RUSH* <input checked="" type="radio"/> Normal <input type="radio"/> Other															
Microbac Laboratories		1401 Research Park Drive, Suite 100		*PRIOR approval, additional fee, work received after 4 pm will be processed next work day.															
Email: social@microbac.com		Riverside, CA 92507		Special Instructions															
Lab # (Lab use only)	Sample ID (As it should appear on report)	Grab/Comp	Date sampled	Time sampled	Sample matrix	Container # & Type	Micro: Plate Cnt, Coliform, E. Coli	Chem: BOD, TSS, TDS, PH	Chem: Cyanide, Ammonia, TKN, Oil & Grease	IC: Br, SO4, PO4, NO3, Cl	Metals: Title 22(CAM) or RCRA	LFT Gas or 8015 GRO or C4-C12	LFT Diesel or 8015 DRO or C13-C40	VOCs by GCMS: 8260 or 624	VOCs by GCMS: BTEX, OXYs	SVOCS: 8270 or 625	Pest. &/or PCBs: 608 or 8081/8082		
1	BNSF-1 0.5-1'		09/02/10	9:45	Soil	1-4oz jar	Preserved									X			
2	BNSF-2 0.5-1'		09/02/10	10:05	Soil	1-4oz jar										X			
3	BNSF-3 0.5-1'		09/02/10	10:15	Soil	1-4oz jar										X			
4	BNSF-4 0.5-1'		09/02/10	10:20	Soil	1-4oz jar										X			
5	BNSF-5 0.5-1'		09/02/10	11:15	Soil	1-4oz jar										X			
6	BNSF-6 0.5-1'		09/02/10	11:45	Soil	1-4oz jar										X			
7	UP-1 0.5-1'		09/02/10	13:55	Soil	1-4oz jar										X			
8	UP-2 0.5-1'		09/02/10	14:00	Soil	1-4oz jar										X			
9	UP-3 0.5-1'		09/02/10	14:10	Soil	1-4oz jar										X			
10	UP-4 0.5-1'		09/02/10	12:50	Soil	1-4oz jar										X			
1) Received by: (Sampler's Signature) <i>[Signature]</i>		Date: 9/2/10	3) Relinquished by:		Date: 9/2/10		5) Relinquished by:		Date: 9/2/10		6) Received for Laboratory by: <i>Danning C</i>		Date: 9/2/10		Time: 14:00		Disposal: <input type="radio"/> Return <input type="radio"/> Lab Disposal		
2) Received by:		Date:	4) Received by:		Date:		7) Report Delivery Formats: <input type="checkbox"/> Paper <input type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type <input type="checkbox"/> EDF, EPA Site ID		8) Report Delivery Formats: <input type="checkbox"/> Paper <input type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type <input type="checkbox"/> EDF, EPA Site ID		9) Report Delivery Formats: <input type="checkbox"/> Paper <input type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type <input type="checkbox"/> EDF, EPA Site ID		10) Report Delivery Formats: <input type="checkbox"/> Paper <input type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type <input type="checkbox"/> EDF, EPA Site ID		11) Report Delivery Formats: <input type="checkbox"/> Paper <input type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type <input type="checkbox"/> EDF, EPA Site ID		12) Report Delivery Formats: <input type="checkbox"/> Paper <input type="checkbox"/> EMAIL <input type="checkbox"/> XLS <input type="checkbox"/> EDD, Type <input type="checkbox"/> EDF, EPA Site ID		
Samples Chilled: <input type="radio"/> Yes <input type="radio"/> No		Custody Seals: <input type="radio"/> Yes <input type="radio"/> No		Samples Intact: <input type="radio"/> Yes <input type="radio"/> No		Delivery: <input type="radio"/> Courier <input type="radio"/> Walk In <input type="radio"/> UPS/Fed Ex		Temp C: 1.4		Laboratory Notes:		Unless other arrangements are made samples will be disposed of 60 days after receipt.							

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS · MOBILE LABORATORIES · PHARMACEUTICALS · NUTRACEUTICALS · COSMETICS

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

White Copy - Original (Accompany Samples)

Yellow Copy - Microbac Files

Pink Copy - Client Copy

ca

0402

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CEL

®

Southern California Division

1401 Research Park Drive, Suite 100
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 3299 Hill Street, Suite 305
 Signal Hill, CA 90755
 V: 562.498.7005 F: 562.498.8617

Chain of Custody Record

Microbac WCH#

100900055

www.microbac.com social@microbac.com

Page 2 of 2

Project No: 1009-00055		Project Name: AECOM-I 215 HOV Project				Turn Around	
Project Manager: MARILU ESCHER		Phone: 951-779-0310 Fax:				<input type="radio"/> 24hr RUSH* <input type="radio"/> 48hr RUSH* <input checked="" type="radio"/> Normal <input type="radio"/> Other	
Customer Name: (Report and Billing) Microbac Laboratories		Address: (Report and Billing) 1401 Research Park Drive, Suite 100 Riverside, CA 92507				*PRIOR approval, additional fee, work received after 4 pm will be processed next work day. Special Instructions	
Email: social@microbac.com							
Lab # <small>(Lab use only)</small>	Sample ID <small>(As it should appear on report)</small>	Grab/Comp	Date sampled	Time sampled	Sample matrix	Container # & Type	Analyses Requested (circle appropriate)
023	UP-5 0.5-1'		09/02/10	12:30	Soil	1-4oz jar	<input checked="" type="checkbox"/> SVOCs: 8270 or 625 <input type="checkbox"/> VOCs by GCMS: BTEX, OXYs <input type="checkbox"/> VOCs by GCMS: 8260 or 624 <input type="checkbox"/> LUFT Diesel or 8015 DRO or C13-C40 <input type="checkbox"/> LUFT Gas or 8015 GRO or C4-C12 <input type="checkbox"/> Metals: Title 22(CAM) or RCRA <input type="checkbox"/> IC: Br, SO4, PO4, NO3, Cl <input type="checkbox"/> Chem: Cyanide, Ammonia, TKN, Oil & Grease <input type="checkbox"/> Chem: BOD, TSS, TDS, pH <input type="checkbox"/> Micro: Plate Cnt, Coliform, E Coll
025	UP-6 0.5-1'		09/02/10	12:55	Soil	1-4oz jar	<input checked="" type="checkbox"/> SVOCs: 8270 or 625 <input type="checkbox"/> VOCs by GCMS: BTEX, OXYs <input type="checkbox"/> VOCs by GCMS: 8260 or 624 <input type="checkbox"/> LUFT Diesel or 8015 DRO or C13-C40 <input type="checkbox"/> LUFT Gas or 8015 GRO or C4-C12 <input type="checkbox"/> Metals: Title 22(CAM) or RCRA <input type="checkbox"/> IC: Br, SO4, PO4, NO3, Cl <input type="checkbox"/> Chem: Cyanide, Ammonia, TKN, Oil & Grease <input type="checkbox"/> Chem: BOD, TSS, TDS, pH <input type="checkbox"/> Micro: Plate Cnt, Coliform, E Coll
							<input type="checkbox"/> SVOCs: 8270 or 625 <input type="checkbox"/> VOCs by GCMS: BTEX, OXYs <input type="checkbox"/> VOCs by GCMS: 8260 or 624 <input type="checkbox"/> LUFT Diesel or 8015 DRO or C13-C40 <input type="checkbox"/> LUFT Gas or 8015 GRO or C4-C12 <input type="checkbox"/> Metals: Title 22(CAM) or RCRA <input type="checkbox"/> IC: Br, SO4, PO4, NO3, Cl <input type="checkbox"/> Chem: Cyanide, Ammonia, TKN, Oil & Grease <input type="checkbox"/> Chem: BOD, TSS, TDS, pH <input type="checkbox"/> Micro: Plate Cnt, Coliform, E Coll

1) Released by: (Sampler's Signature) <i>[Signature]</i>	Date: 9/10/10	Time: 1:00	3) Relinquished by:	Date:	Time:	5) Relinquished by:	Date:	Time:
2) Received by:	Date:	Time:	4) Received by:	Date:	Time:	6) Received for Laboratory by: <i>DANIEL CUL</i>	Date: 9/10/10	Time: 14:00

Report Delivery Formats:
 Paper EMAIL XLS
 EDD, Type _____
 EDF, EPA Site ID _____

Delivery:
 Courier Walk In
 UPS/Fed Ex

Temp C: 1.4

Samples Chilled: Yes No Custody Seals: Yes No Samples Intact: Yes No

Samples From Field: Yes No

Laboratory Notes:

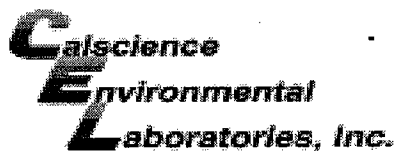
CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS · MOBILE LABORATORIES · PHARMACEUTICALS · NUTRACEUTICALS · COSMETICS

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

White Copy - Original (Accompanyes Samples)

Yellow Copy - Microbac Files

Pink Copy - Client Copy



DRAFT

WORK ORDER #: 10-09-0402

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Microbac

DATE: 09/07/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)
Temperature 0.9°C + 0.5°C (CF) = 1.4°C
Blank Sample
Sample(s) outside temperature criteria (PM/APM contacted by:)
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Metals Only PCBs Only
Initial: DL

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A
Sample No (Not Intact) Not Present
Initial: DL
Initial: DL

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples...
COC document(s) received complete...
Collection date/time, matrix, and/or # of containers logged in based on sample labels.
No analysis requested. Not relinquished. No date/time relinquished.
Sampler's name indicated on COC...
Sample container label(s) consistent with COC...
Sample container(s) intact and good condition...
Proper containers and sufficient volume for analyses requested...
Analyses received within holding time...
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours...
Proper preservation noted on COC or sample container...
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace...
Tedlar bag(s) free of condensation...

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve () EnCores TerraCores
Water: VOA VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna2
Air: Tedlar Summa Other: Trip Blank Lot#: Labeled/Checked by:
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by:
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by:



CHAIN OF CUSTODY FORM

1009-00055

25864-F-Business Center Dr., Redlands, CA 92374 (909)335-6116, Fax (909) 335-6120

Stantec

Page 1 of 2

Client Name/Address:	Project/PO Number:	Analysis Required	Special Instructions	VOC by EPA Method 8260B		CAM Metals (with Total Chromium) by EPA Method 200.1	TFHg by 8015 M	TH122 CM Metals	PCB's 8082	SUDCS 8270
				Sample Matrix	Container Type					
Stantec 25864-F Business Center Dr. Redlands, CA 92374	AECOM-I 215 HOV PROJECT 185802086			S	4oz Jar	2	9/2/10	945	None	
Project Manager: Anne Perez Email Address: Anne.Perez@stantec.com Sampler: CEF/MZ	Phone Number: 909-335-6116 Fax Number: 909-335-6120			S				1000		
				S				1005		
				S				1015		
				S				1015		
				S				1030		
				S				1020		
				S				1030		
				S				1115		
				S				1130		
				S				1145		
				S	4oz Jar			1200		
				W	1-2 Amber			-	HCl	
				W	1-2 Amber			-		
Relinquished By: <i>[Signature]</i> Date/Time: 9/2/10 1612	Received By: <i>[Signature]</i> Date/Time: 9/2/10 1612									
Relinquished By: <i>[Signature]</i> Date/Time: 9/2/10 1612	Received By: <i>[Signature]</i> Date/Time: 9/2/10 1612									
Relinquished By: <i>[Signature]</i> Date/Time: 9/2/10 1612	Received in Lab By: <i>[Signature]</i> Date/Time: 9-2-10 @ 1612									

DRAFT

Note: By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Turnaround: same day
Time: (Check) 24 hours 5 days normal
Sample Integrity: (Check) intact on ice



CHAIN OF CUSTODY FORM

1009-00055

25864-F-Business Center Dr., Redlands, CA 92374 (909)335-6116, Fax (909) 335-6120

Stantec

Page 2 of 2

Client Name/Address: Stantec 25864-F Business Center Dr. Redlands, CA 92374	Project/PO Number: Phone Number:909-335-6116 Fax Number:909-335-6120				Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required							
	VOC by EPA Method 8260B	CAM Metals (with EPA Method 200. Total Chromium)	TPHg by 8015 M	Tit/22 cam Metals							PCBs 8082	SUOCs 8270	Analysis Required	Special Instructions				
Project Manager: <u>Anne Perez</u> Email Address: <u>Anne.Perez@Stantec.com</u> Sampler: <u>CE/MZ</u>					S	40 ^{oz} Jar	2	9/2/10	1355	NONE								
15 UP-1 0.5-1-									1400				X	X	X			
16 UP-1 1.5-2-									1400				X	X	X			
17 UP-2 0.5-1-									1420				X	X	X			
18 UP-2 1.5-2-									1410				X	X	X			
19 UP-3 0.5-1-									1415				X	X	X			
20 UP-3 1.5-2-									1250				X	X	X			
21 UP-4 0.5-1-									1300				X	X	X			
22 UP-4 1.5-2-									1230				X	X	X			
23 UP-5 0.5-1-									1240				X	X	X			
24 UP-5 1.5-2-									1255				X	X	X			
25 UP-6 0.5-1-									1305				X	X	X			
26 UP-6 1.5-2-													X	X	X			
27 EB-3						Amber	1			HCl			X	X	X			
28 EB-4						Amber	1			HCl			X	X	X			
Relinquished By: <u>[Signature]</u> Date/Time: <u>9/2/10 1612</u>	Received By: _____										Date/Time: _____		Turnaround: _____		Time: _____			
Relinquished By: _____	Received By: _____										Date/Time: _____		24 hours		5 days			
Relinquished By: _____	Received in Lab By: <u>[Signature]</u>										Date/Time: <u>9-2-10 @ 1612</u>		48 hours		normal			
Relinquished By: _____	Received in Lab By: _____										Date/Time: _____		Sample Integrity: (Check) _____		on ice			

DRAFT

Note: By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

EMC LABS, INC.

Laboratory Report

0090687

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	STANTEC	Job# / P.O. #:	
Address:	25864-F BUSINESS CENTER DRIVE REDLANDS CA 92374	Date Received:	09/03/2010
Collected:	09/02/2010	Date Analyzed:	09/09/2010
Project Name/	KAN I-215 GAP CLOSURE	Date Reported:	09/09/2010
Address:	RAILROAD BRIDGES	EPA Method:	EPA 600/M4-82-020
		Submitted By:	TAMMY LAPP
		Collected By:	Customer

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0090687-001 01C		Concrete, Gray	No		Cellulose Fiber <1% Gypsum Carbonates Mica Quartz Binder/Filler 99%
0090687-002 02EF		Expansion Joint Felt, Black	No		Cellulose Fiber 40% Gypsum Quartz Binder/Filler 60%
0090687-003 03C		Concrete, Gray	No		Gypsum Carbonates Mica Quartz Binder/Filler 100%
0090687-004 04S		Shim, Gray/Brown	Yes	Chrysotile 85%	Gypsum Quartz Binder/Filler 15%
0090687-005 05S		Shim, Gray/Brown	Yes	Chrysotile 85%	Gypsum Quartz Binder/Filler 15%
0090687-006 06C		Concrete, Gray	No		Cellulose Fiber <1% Gypsum Carbonates Mica Quartz Binder/Filler 99%
0090687-007 07EF		Expansion Joint Felt, Black	No		Cellulose Fiber 40% Gypsum Quartz Binder/Filler 60%

EMC LABS, INC.

Laboratory Report

0090687

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	STANTEC	Job# / P.O. #:	
Address:	25864-F BUSINESS CENTER DRIVE	Date Received:	09/03/2010
	REDLANDS CA 92374	Date Analyzed:	09/09/2010
Collected:	09/02/2010	Date Reported:	09/09/2010
Project Name/	KAN I-215 GAP CLOSURE	EPA Method:	EPA 600/M4-82-020
Address:	RAILROAD BRIDGES	Submitted By:	TAMMY LAPP
		Collected By:	Customer

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0090687-008 08C		Concrete, Gray	No		Gypsum Carbonates Mica Quartz Binder/Filler 100%
0090687-009 09S		Shim, Gray/Brown	Yes	Chrysotile 85%	Gypsum Quartz Binder/Filler 15%
0090687-010 10S		Shim, Gray/Brown	Yes	Chrysotile 85%	Gypsum Binder/Filler 85%
0090687-011 11C		Concrete, Gray	No		Cellulose Fiber <1% Gypsum Carbonates Mica Quartz Binder/Filler 99%
0090687-012 12C		Concrete, Gray	No		Cellulose Fiber <1% Gypsum Mica Quartz Carbonates Binder/Filler 99%
0090687-013 13C		Shim, Gray/Orange	Yes	Chrysotile 85%	Cellulose Fiber 5% Gypsum Binder/Filler 10%
0090687-014 14S		Shim, Gray/Orange/Sliver	Yes	Chrysotile 85%	Gypsum Quartz Binder/Filler 15%

EMC LABS, INC.

Laboratory Report
0090687

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: STANTEC
Address: 25864-F BUSINESS CENTER DRIVE
REDLANDS CA 92374
Collected: 09/02/2010
Project Name/ Address: KAN I-215 GAP CLOSURE
RAILROAD BRIDGES

Job# / P.O. #:
Date Received: 09/03/2010
Date Analyzed: 09/09/2010
Date Reported: 09/09/2010
EPA Method: EPA 600/M4-82-020
Submitted By: TAMMY LAPP
Collected By: Customer

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0090687-023 23PW		Pipe Wrap, Silver/ Black	Yes	Chrysotile 70%	Cellulose Fiber 5% Gypsum Binder/Filler 25%

Analyst - Paul Hofer

Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernable layer. All analyses are derived from calibrated visual estimate and measured in weight percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately <1% by weight. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by any entity to claim product endorsement by NVLAP or any agency of the U.S. Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

CHAIN OF CUSTODY
 EMC Laboratories
 9830 S. 51ST St., Ste B-109
 Phoenix, AZ 85044
 (800) 362-3373 Fax (480) 893-1726

LAB#: 90687
 TAT: 3day
 Rec'd: SEP 09 PM

COMPANY NAME: **STANTEC**
25864-F Business Center Drive
Redland, CA 92374
 CONTACT: Tammy Lapp
 Phone/Fax: (909) 335-6116 x 2249/ (909) 335-6120
 Email: tammy.lapp@stantec.com

BILL TO: _____

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] **X [3-Day]** [5-Day] [6-10 Day]

****Prior confirmation of turnaround time is required
 ****Additional charges for rush analysis (please call marketing department for pricing details)
 ****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** **XX** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** **X** [Dispose of samples at EMC] / [Return samples to me at my expense]
 (If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

23

4. **Project Name:** Lan I-215 Gap Closure - Railroad Bridges

P.O. Number: _____ **Project Number:** _____

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS			
					ON	OFF	FLOW RATE	
1	01C	9-2-10	B.N.S.F. - Concrete NE	Y N				
2	02 EF		EXPANSION JOINT FELT	Y N				
3	03C		Concrete SE	Y N				
4	04S		Shim #2 SE	Y N				
5	05S		Shim #12 Center	Y N				
6	06C		Concrete NW	Y N				
7	07 EF		EXPANSION JOINT FELT	Y N				
8	08C		Concrete SW	Y N				
9	09S		Shim #11 SW	Y N				
10	10S		Shim #11 NW	Y N				
11	11C		U.P.	Concrete NE	Y N			
12	12C		Concrete SE	Y N				
13	13C		V	Shim #3 SE	Y N			
14	14S			Shim #5 SE	Y N			
15	15S			Shim #8 NE	Y N			

SPECIAL INSTRUCTIONS: _____

Sample Collector: (Print) Tammy Lapp (Signature) _____

Relinquished by: Tammy Lapp Date/Time: _____ Received by: Diana Federico Date/Time: 9/3/10 9:30

Relinquished by: Diana Federico Date/Time: 9/3/10 1510 Received by: _____ Date/Time: 9-9-10/12:05

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

CHAIN OF CUSTODY
EMC Laboratories
 9830 S. 51ST St., Ste B-109
 Phoenix, AZ 85044
 (800) 362-3373 Fax (480) 893-1726

LAB#:	
TAT:	90687
Rec'd:	

COMPANY NAME: **STANTEC**
 25864-F Business Center Drive
 Redland, CA 92374
 CONTACT: Tammy Lapp
 Phone/Fax: (909) 335-6116 x 2249/ (909) 335-6120
 Email: tammy.lapp@stantec.com

BILL TO: _____ (If Different Location)

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] X [3-Day] [5-Day] [6-10 Day]

****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** **XX** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** X [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. **Project Name:** Lan I-215 Gap Closure - Railroad Bridges

P.O. Number: _____ **Project Number:** _____

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
16	16 C	9-2-10	D.P. Concrete NW	Y N			
17	17 C		Concrete SW	Y N			
18	18 S		woodsum NW	Y N			
19	19 S		Sum# 4 NW	Y N			
20	20 S		Sum #5 NW	Y N			
21	21 PW		Pipe wrap	Y N			
22	22 PW		Pipe wrap	Y N			
23	23 PW		Pipe wrap	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Tammy Lapp

(Signature) _____

Relinquished by: Tammy Lapp, Date/Time: _____

Received by: Diana Federeco, Date/Time: 9/3/10 9:30

Relinquished by: Diana Federeco, Date/Time: 9/3/10 1:10

Received by: _____, Date/Time: 9-9-10/12:05

Relinquished by: _____, Date/Time: _____

Received by: _____, Date/Time: _____

*** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

DRAFT



9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES
EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB #: L39098		DATE RECEIVED: 09/03/10			
CLIENT: Stantec		REPORT DATE: 09/08/10			
		DATE OF ANALYSIS: 09/08/10			
CLIENT ADDRESS: 25864-F Business Center Drive Redland, CA 92374		P.O. NO.:			
PROJECT NAME: Lan I-215 Gap Closure-Railroad Bridges		PROJECT NO.:			
EMC # L39098-	SAMPLE DATE /10	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
1	09/02	01 PC	Paint Chips-B.N.S.F.-N/E Top Girder	1.0	59.3^^
2	09/02	02 PC	Paint Chips-B.N.S.F.-N/E End Girder	1.2	56.2^^
3	09/02	03 PC	Paint Chips-B.N.S.F.-S/E Gray Concrete	0.055	0.035
4	09/02	04 PC	Paint Chips-B.N.S.F.-S/E Girder	1.4	56.8^^
5	09/02	05 PC	Paint Chips-B.N.S.F.-S/E Girder	1.0	55.4^^
6	09/02	06 PC	Paint Chips-B.N.S.F.-Beneath N/E Gray Concrete	0.010	0.075

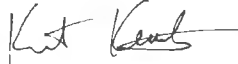
^ = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

ANALYST: 
Jason Thompson

QA COORDINATOR: 
Kurt Kettler

DRAFT



9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES
EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB #: L39098		DATE RECEIVED: 09/03/10			
CLIENT: Stantec		REPORT DATE: 09/08/10			
		DATE OF ANALYSIS: 09/08/10			
CLIENT ADDRESS: 25864-F Business Center Drive Redland, CA 92374		P.O. NO.:			
PROJECT NAME: Lan I-215 Gap Closure-Railroad Bridges		PROJECT NO.:			
EMC # L39098-	SAMPLE DATE /10	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
7	09/02	07 PC	Paint Chips-B.N.S.F.-S/W Girder	2.0	54.7^^
8	09/02	08 PC	Paint Chips-B.N.S.F.-S/W Concrete	0.010	0.016
9	09/02	09 PC	Paint Chips-B.N.S.F.-N/W Beneath Steel	0.010	0.033
10	09/02	10 PC	Paint Chips-B.N.S.F.-N/W End Girder	1.0	64.5^^
11	09/02	11 PC	Paint Chips-U.P.-N/E Concrete	1.0	45.6^^
12	09/02	12 PC	Paint Chips-U.P.-S/E Concrete	1.0	32.7^^

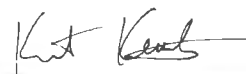
^A = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

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ANALYST: 
Jason Thompson

QA COORDINATOR: 
Kurt Kettler

DRAFT



9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES
EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB #: L39098		DATE RECEIVED: 09/03/10			
CLIENT: Stantec		REPORT DATE: 09/08/10			
		DATE OF ANALYSIS: 09/08/10			
CLIENT ADDRESS: 25864-F Business Center Drive Redland, CA 92374		P.O. NO.:			
PROJECT NAME: Lan I-215 Gap Closure-Railroad Bridges		PROJECT NO.:			
EMC # L39098-	SAMPLE DATE /10	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (% Pb by weight)	%Pb BY WEIGHT
13	09/02	13 PC	Paint Chips-U.P.-S/E Shim #3	0.010	0.040
14	09/02	14 PC	Paint Chips-U.P.-S/E Shim #5	1.0	62.7^^
15	09/02	15 PC	Paint Chips-U.P.-N/E Shim #8	0.010	0.032
16	09/02	16 PC	Paint Chips-U.P.-N/W Beneath Steel Frame	1.4	49.4^^
17	09/02	17 PC	Paint Chips-U.P.-N/W Concrete	0.010	0.023
18	09/02	18 PC	Paint Chips-U.P.-N/W Top Girder	3.4	31.2^^

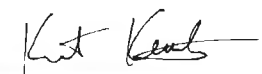
^ = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

ANALYST: 
Jason Thompson

QA COORDINATOR: 
Kurt Kettler

CHAIN OF CUSTODY
 EMC Laboratories
 9830 S. 51ST St., Ste B-109
 Phoenix, AZ 85044
 (800) 362-3373 Fax (480) 893-1726

LAB#: L39098
 TAT: 3 days
 Rec'd: 9/3/10

COMPANY NAME: **STANTEC**
 25864-F Business Center Drive
 Redland, CA 92374
 CONTACT: Tammy Lapp
 Phone/Fax: (909) 335-6116 x 2249/ (909) 335-6120
 Email: tammy.lapp@stantec.com

BILL TO: _____

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] X [3-Day] [5-Day] [6-10 Day]

****Prior confirmation of turnaround time is required
 ****Additional charges for rush analysis (please call marketing department for pricing details)
 ****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** Bulk-PLM] [Air-PCM] XX [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** X [Dispose of samples at EMC] / [Return samples to me at my expense]
 (If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. **Project Name:** Lan I-215 Gap Closure - Railroad Bridges
P.O. Number: _____ **Project Number:** _____

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes/No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
			Paint Chips				
1	01 PC	9-2-10	BNSF - N/E TOP Girder	Y N			
2	02 PC		NE End Girder	Y N			
3	03 PC		SE Gray Concrete	Y N			
4	04 PC		SE Girder	Y N			
5	05 PC		S/E Girder	Y N			
6	06 PC		Beneath NE gray concrete	Y N			
7	07 PC		S/W girder	Y N			
8	08 PC		S/W concrete	Y N			
9	09 PC		N/W Beneath Steel	Y N			
10	10 PC		N/W end girder	Y N			
11	11 PC		U.P. N-E concrete	Y N			
12	12 PC		S/E concrete	Y N			
13	13 PC		S/E Shim #3	Y N			
14	14 PC		S/E Shim #5	Y N			
15	15 PC		N/E Shim #8	Y N			

SPECIAL INSTRUCTIONS: _____
 Sample Collector: (Print) Tammy Lapp (Signature) _____
 Relinquished by: Tammy Lapp Date/Time: _____ Received by: [Signature] Date/Time: 9/3/10
 Relinquished by: [Signature] Date/Time: 9/3/10 Received by: [Signature] Date/Time: 9/3/10
 Relinquished by: _____ Date/Time: 9/4/10 10:50 Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

Girder

DRAFT
CHAIN OF CUSTODY
 EMC Laboratories
 9830 S. 51ST St., Ste B-109
 Phoenix, AZ 85044
 (800) 362-3373 Fax (480) 893-1726

LAB#:
TAT: <u>139098</u>
Rec'd:

COMPANY NAME: STANTEC BILL TO: _____ (If Different Location)
 25864-F Business Center Drive
 Redland, CA 92374
 CONTACT: Tammy Lapp
 Phone/Fax: (909) 335-6116 x 2249/ (909) 335-6120
 Email: tammy.lapp@stantec.com

Now Accepting: **VISA – MASTERCARD** Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] X [3-Day] [5-Day] [6-10 Day]

****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** XX [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** X [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. **Project Name:** Lan I-215 Gap Closure – Railroad Bridges

P.O. Number: _____ **Project Number:** _____

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
<u>16</u>	<u>16 PC</u>	<u>9-2-10</u>	<u>U.P. N/W Steel Frame</u>	<u>Y N</u>			
<u>17</u>	<u>17 PC</u>	<u>[scribble]</u>	<u>↓ New Concrete</u>	<u>Y N</u>			
<u>18</u>	<u>18 PC</u>	<u>[scribble]</u>	<u>↓ New Top grade</u>	<u>Y N</u>			
		<u>↓</u>		<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
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				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			
				<u>Y N</u>			

SPECIAL INSTRUCTIONS: _____

Sample Collector: (Print) Tammy Lapp (Signature) _____
 Relinquished by: Tammy Lapp Date/Time: _____ Received by: [Signature] Date/Time: 9/3/10
 Relinquished by: [Signature] Date/Time: 9/3/10 Received by: [Signature] Date/Time: 9/3/10
 Relinquished by: [Signature] Date/Time: 9/6/10 Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.



Stantec

**ASBESTOS and LEAD-BASED
PAINT SURVEY REPORT**

**Six Bridge Structures
I-215 Columbia - Washington
Highland, Riverside County, California**

Stantec Project No.: 185801087

Submitted to:

LAN Engineering Corporation
20 Empire Drive
Lake Forest, California

Submitted by:

Stantec Consulting Corporation
25864-F Business Center Drive
Redlands, California

November 12, 2009



Stantec Consulting Corporation
25864-F Business Center Drive
Redlands, CA 92374
Tel: (909) 335-6116
Fax: (909) 335-6120

November 12, 2009

Mr. William Nascimento
LAN Engineering Corporation
20 Empire Drive
Lake Forest, California 92630

RE: ASBESTOS AND LEAD-BASED PAINT SURVEY REPORT
Six Bridge Structures
I-215
Highland, Riverside County, California

Dear Mr. Nascimento:

Stantec Consulting Corporation (Stantec), has prepared the following Asbestos and Lead-Based Paint Survey Report for six bridge structures located along the Interstate 215-Freeway in the City of Highland, in Riverside County, California. This Asbestos Survey Report was performed in accordance with the scope of work and terms provided in Stantec's cost proposal dated March 26, 2009.

The objective of the investigation was to identify, estimate quantities of, and assess the condition/friability of Asbestos Containing Materials (ACMs) at the Site using the methods presented in the Federal Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR, Part 763) as a guideline. In addition, a lead based paint (LBP) inspection was completed using EPA and Department of Housing and Urban Development (HUD) guidelines. A brief discussion of the investigation findings is presented in the following executive summary.

EXECUTIVE SUMMARY

This survey was completed six freeway over crossing bridge structures (Columbia Street, Center Street, Iowa Avenue, Barton Road, Newport Avenue, and Washington Street) located along the Interstate 215-Freeway in the City of Highland, in Riverside County, California. At the time of Stantec's inspection, the bridge structures were functional and part of the I-215 Freeway system. Stantec understands that portions of the bridge structures will be demolished for bridge widening activities. A building description is detailed in Section 2.0 of this report.

ASBESTOS SURVEY RESULTS

As part of the asbestos survey, bulk material samples were collected from representative homogeneous building materials on the bridge structures. All samples were analyzed using Polarized Light Microscopy (PLM) techniques in accordance with methodology approved by the EPA. According to the EPA, an ACM is defined as a material containing more than one percent asbestos.

The following is a description of results, bridge by bridge. Identified materials that contain greater than one-percent asbestos are described by the US Environmental Protection Agency (USEPA), as Regulated Asbestos Containing Materials (RACM), Category 1, materials that may become friable if disturbed (such as demolition activities).

Columbia Street Bridge:

The following RACMs were identified on the Columbia Street Bridge

Guardrail Post Shims – Stantec observed sixty guardrail posts on the Columbia Street Bridge. Of the sixty guardrail posts, ten were observed with shims. Fibrous shims were used beneath selected guardrail posts for leveling purposes. The shims each measure approximately “8-inches x 8-inches”. The shim materials collected and tested from the bridge contains 90 percent asbestos. The shims, approximately 1/8 inch thickness, were observed at the base of ten guardrail posts representing an estimated total area of approximately 3.6 square feet of asbestos containing material. The material was observed to be in good condition, but due to its fibrous nature, is considered a friable ACM Material.

Silver/Gray Bolt Mastic - Stantec observed a gray-colored mastic material coating the guardrail post bolts. The bolt mastic material contains 3 percent asbestos. The gray mastic was observed to be in good condition and is therefore considered a non-friable ACM material. The gray mastic was observed on random bolts, but most likely is no more than 5 square feet (accumulatively) of ACM mastic material.

Center Street Bridge:

The following RACMs were identified on the Center Street Bridge

Guardrail Post Shims – Stantec observed seventy-one guardrail posts on the Center Street Bridge. Of the seventy-one guardrail posts, six were observed with shims. Fibrous shims were used beneath selected guardrail posts for leveling purposes. The shims measure approximately “8-inches x 8-inches”. The shim materials collected and tested from the bridge contains 85 percent asbestos. The shims, approximately 1/8 inch thickness, were observed at the base of six guardrail posts representing an estimated total area of approximately 2.16 square feet of asbestos containing material. The material was observed to be in good condition, but due to its fibrous nature, is considered a friable ACM Material.

Iowa Avenue Bridge

Of the representative materials sampled, no asbestos containing material were identified on the Iowa Avenue Bridge. No leveling shims or guard posts were observed on the bridge railing.

Barton Road Bridge

Of the representative materials sampled, no asbestos containing material were identified on the Barton Road Bridge. No leveling shims or guard posts were observed on the bridge railing.

Newport Avenue Bridge

Of the representative materials sampled, no asbestos containing material were identified on the Newport Avenue Bridge. No leveling shims or guard posts were observed on the bridge railing.

Washington Street Bridge

Of the representative materials sampled, no asbestos containing material were identified on the Washington Street Bridge. No leveling shims or guard posts were observed on the bridge railing.

Any action that disturbs ACMs is subject to Federal, State, and local regulations. "Disturbance" means activities that disrupt the matrix of ACM or presumed ACM (PACM), or generate visible debris from ACM or PACM. Therefore, Stantec recommends that, prior to renovation or demolition activities, a licensed asbestos abatement firm be contracted to remove the identified RACM shim and bolt mastic materials. The identified RACMs will require removal in accordance with the USEPA NESHAP and the local South Coast Air Quality Management District (SCAQMD) Rule 1402. The asbestos abatement contractor should comply with Rule 1402 and provide at least a 10-day notification prior to asbestos removal.

Asbestos is not listed as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, asbestos is listed as a hazardous waste under the Toxic Substances Control Act. The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or "Superfund") also includes asbestos in its list. Some wastes are not considered "hazardous", but are regulated. In general, California regulations are more stringent than federal regulations regarding the handling of asbestos. Therefore, the asbestos abatement contractor should dispose of ACMs in accordance with all state and federal applicable laws.

LEAD-BASED PAINT SURVEY RESULTS

An inspection of the bridge components was conducted to evaluate the location, and condition of painted surfaces and random surfaces suitable for lead-based paint sampling. Other than graffiti cover paint, no surfaces on the bridge structures were observed to be painted. Samples of both yellow and white roadway striping were collected at random locations for lead analysis. Table 2 and the attached Figures identify the areas where lead-based paint samples were collected.

Paint chips were removed to the substrate. EMC Analytical Laboratories of Phoenix, Arizona, analyzed the samples. All samples were analyzed by EMC SOP Method #L01/1, after US EPA SW-846 Method 7420.

Of the roadway striping that was tested, Lead was reported in concentrations above 0.5 percent by weight (or 5,000 ppm) in the following three representative paint chip samples:

Columbia Street Bridge – Yellow Center Stripe, approximately 296 linear feet
Center Street Bridge - Yellow Center Stripe, approximately 240 linear feet
Washington Street Bridge Yellow Center Stripe, approximately 225 linear feet

None of the white striping or grey graffiti cover representative paint chip samples collected from the bridges exceeded HUD/Cal-OSHA action levels of 0.5 percent lead by weight, or 5,000 ppm.

Based on the field observations and laboratory data, it is estimated that a total of 761 linear feet of yellow LBP center stripe would need to be removed (scraped), collected, and properly disposed. Removal of LBP should be performed in accordance with OSHA Standards (29CFR 1926.62 App. A) for workers exposed to lead through inhalation, and conducted by an abatement company certified by the State of California Department of Health Services. It should be noted that the estimated amount of LBP requiring removal could be reduced by collecting additional paint chip samples that would provide further definition of the LBP present in this area.

Paint chip samples collected and analyzed from representative Site locations below the action levels of 0.5 percent lead by weight, require no special handling with respect to lead-based paint during future roadway work.

If LAN Engineering intends to strip the paint, the waste may be considered a hazardous waste and additional sampling and analysis are recommended for characterization and disposal. However, of the samples collected, none showed detectable concentrations of lead above the California total threshold concentrations limit of 1,000 mg/kg. If structural components are disposed of with the paint coating intact it is unlikely that such wastes will qualify as a hazardous waste.

Mr. William Nascimento
LAN Engineering Corporation
November 12, 2009
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If you have any questions or comments regarding the information enclosed herein, please contact the undersigned at your convenience.

Respectfully submitted,
Stantec Consulting Corporation

Tammy H. Lapp, REA 06825
CA Certified Asbestos Consultant ID#01-2969

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LIST OF ACRONYMS

ACM –	Asbestos Containing Material
ACCM –	Asbestos-Containing Construction Material
AHERA –	Asbestos Hazard Emergency Response Act
Cal-DHS –	California Department of Health Services
Cal-DOSH –	California Division of Occupational Safety and Health
Cal-OSHA –	California Division of Occupational Safety and Health Administration
CCR –	California Code of Regulations
CERCLA –	Comprehensive Environmental Response, Compensation and Liability Act
CFR –	Code of Federal Regulations
DTSC –	Department of Toxic Substances Control
ELAP –	Environmental Laboratory Accreditation Program
EMC –	Environmental Management Consultant
HUD –	Department of Housing and Urban Development
LBP –	Lead-Based Paint
Mg/kg –	Milligrams per Kilogram
Mg/L –	Milligrams per Liter
ND –	None Detected
NESHAP –	National Emission Standard for Hazardous Air Pollutants
NVLAP –	National Voluntary Laboratory Accreditation Program
O&M –	Operations & Management
PEL –	Permissible Exposure Limit
PLM –	Polarized Light Microcopy
ppm –	parts per million
QA/QC –	Quality Assurance/Quality Control
RACM –	Regulated Asbestos-Containing Material
RCRA -	Resource Conservation and Recovery Act
SCAQMD –	South Coast Air Quality Management District
SOP –	Standard of Procedure
TCLP –	Toxicity Leaching Characteristic Procedure
TSI –	Thermal System Insulation
US EPA –	United States Environmental Protection Agency

1.0 INTRODUCTION

On behalf of LAN Engineering Corporation (LAN), Stantec Consulting Corp (Stantec) conducted an Asbestos Containing Materials (ACM) and Lead-Based Paint (LBP) Survey for six bridge structures located along the (I-215) Freeway in the City of Highland, Riverside County, California. In preparation for future paving and bridge widening activities, LAN requested that the bridge structures be surveyed for ACMs and LBPs. In conformance with Air Quality Management District (AQMD) Rule 1403, an asbestos survey is required prior to all structural renovation and demolition.

The assessment field work was performed on July 28 and 31, 2009, and consisted of a visual inspection and sampling of accessible representative external structural components to identify potential ACMs and LBPs.

Bulk samples of suspect ACMs were collected using destructive techniques in selected representative locations. The visual inspection, bulk sampling, and survey documentation was performed by Ms. Tammy Lapp. Ms. Lapp is accredited by the California Division of Occupational Safety and Health (Cal-DOSH) as a Certified Asbestos Consultant, No. 91-2969. Qualifications are presented in Appendix A.

3.2 OBJECTIVES

The objectives of the surveys were to identify, estimate quantities of, and assess the condition/friability of asbestos within the building components, and the content of lead on painted surfaces of the Site structures.

3.3 SCOPE OF WORK

This ACM Survey Report was performed in accordance with the scope of work (SOW) and terms provided in Stantec's cost proposal dated March 28, 2009. The SOW has been prepared for LAN Engineering Corporation in accordance with Caltrans, District 8 protocol for similar projects in the area. The SOW consisted of the following general elements:

- Perform a visual inspection and destructive sampling for asbestos following criteria outlined in the Asbestos Hazard Emergency Response Act (AHERA) to identify sources of friable and non-friable ACMs.
- Collect bulk samples of suspect asbestos containing materials.
- Collect paint chip samples of painted surfaces.
- Submit bulk samples to a certified laboratory for analysis.
- Compile the findings into a report.
- Ensure the technical quality of all work by using AHERA-accredited Inspectors and Management Planners, Certified Consultants, and a proven Quality Assurance/Quality Control (QA/QC) Program.

2.0 SITE DESCRIPTION

At the time of Stantec's inspection, the bridge structures were functional and part of the I-215 Freeway system located in the City of Highland in Riverside County, California. Stantec understands that portions of the bridge structures will be demolished for bridge widening activities.

LAN provided Stantec with bridge locations. The six bridge structures are parallel to each other and are located along the I-215 freeway between the Columbia Avenue exit to the south and the Washington Street exit to the north. The following is a brief description of each bridge.

Columbia Avenue Bridge: Of the structures, the Columbia Avenue Bridge is the southern most bridge (Figure 2). The Columbia Street Bridge is constructed of steel reinforced concrete with an asphalt covered concrete bridge deck. The bridge has a concrete pedestrian sidewalk on the north side. Each side of the bridge is protected with a low concrete wall with tubular guard rails and posts. Suspect asbestos-containing leveling shims are generally used to raise guardrail posts where necessary to create a clean, level guardrail line. Leveling shims were observed beneath ten randomly located guardrail posts. The bridge measures approximately 296 feet in length (from abutment to abutment) and is 70 feet in width.

Center Street Bridge: Center Street Bridge is constructed of steel reinforced concrete with an asphalt covered concrete bridge deck. The Center Street Bridge is constructed of steel reinforced concrete with an asphalt covered concrete bridge deck. The bridge has a concrete pedestrian sidewalk on the north side. Each side of the bridge is protected with a low concrete wall with no tubular guard rails and posts. Suspect asbestos-containing leveling shims are generally used to raise guardrail posts where necessary to create a clean, level guardrail line. Leveling shims were observed beneath ten randomly located guardrail posts. The bridge measures approximately 340 feet in length (from abutment to abutment) and is 54 feet in width.

Iowa Avenue Bridge: Iowa Avenue Bridge is constructed of steel reinforced concrete with asphalt and concrete-bridge deck. The bridge has a concrete pedestrian sidewalk on the north side. Chain link fencing was observed along the bridge walls. No guardrails are in place, and no suspect asbestos-containing leveling shims were observed. The bridge measures approximately 338 feet in length (from abutment to abutment) and is 45 feet in width.

Barton Road Bridge: Barton Road Bridge is constructed of steel reinforced concrete with asphalt and concrete-bridge deck. Chain link fencing was observed along the bridge walls. The bridge has a concrete pedestrian sidewalk on the north side. No guardrails are in place, and no suspect asbestos-containing leveling shims were observed. The bridge measures approximately 294 feet in length (from abutment to abutment) and is 48 feet in width.

Newport Avenue Bridge: Newport Avenue Bridge is constructed of steel reinforced concrete with a concrete-bridge deck. The bridge has a concrete pedestrian sidewalk on the north side. Each side of the bridge is protected with a low concrete wall with tubular guard rails and posts. Suspect asbestos-containing leveling shims are generally used to raise guardrail posts where necessary to create a clean, level guardrail line. No suspect asbestos-containing leveling shims were observed on the Newport Avenue Bridge. The bridge measures approximately 205 feet in length (from abutment to abutment) and is 36 feet in width.

Washington Street Bridge: Washington Street Bridge is constructed of steel reinforced concrete with a concrete-bridge deck. The bridge has a concrete pedestrian sidewalk on the north side. Each side of the bridge is protected with a low concrete wall. The south side of the bridge has tubular guard rails and posts. The north side of the bridge has chain link fencing. Suspect asbestos-containing leveling shims are generally used to raise guardrail posts where necessary to create a clean, level guardrail line. No suspect asbestos-containing leveling shims were observed on the Washington Street Bridge. The bridge measures approximately 234 feet in length (from abutment to abutment) and is 65 feet in width.

3.0 ASBESTOS SURVEY

3.0 BACKGROUND

Asbestos is a common term for a group of naturally occurring mineral fibers. Due to its durability and insulating quality, it was used in a wide variety of building products including structural fireproofing, pipe and duct insulation, plasters, roofing, floor tile, and vinyl floor sheeting. Adverse health effects have been associated with the inhalation of airborne asbestos fibers by asbestos industry workers. The asbestos fibers that are tightly bound in building materials do not represent an exposure hazard unless disturbed in such a way that releases airborne fibers (i.e., cutting, drilling, or sanding). By June of 1978, the US EPA had effectively banned the use of asbestos in spray application products such as structural fireproofing and acoustic ceilings, pipe-lagging, joint compounds, and spackles. Asbestos is still used in the manufacture of non-friable products such as vinyl floor tile and roofing materials.

3.2 CURRENT REGULATIONS

The following is a summary of current state and federal regulations which contain requirements related to the performance of building surveys for asbestos. These summaries are not intended to be all inclusive and do not contain every aspect of the regulations discussed. Regulations pertaining to the removal and disposal of ACMs are not included.

3.2.1 Environmental Protection Agency National Emission Standard for Hazardous Air Pollutants

Under the National Emission Standard for Hazardous Air Pollutants (NESHAP), regulation 40 CFR Part 61, no visible emissions are allowed during building demolition or renovation activities which involve ACMs. For this reason, all buildings must be surveyed for ACMs prior to demolition or renovation. The US EPA and/or the local air quality management district which implements US EPA actions must be notified prior to any building demolition even if no ACMs are present. RACM is defined as any material with an asbestos content of greater than one percent and is friable, or Category I non-friable ACM that has or will become friable, or Category II friable ACM that may become or will become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation.

According to NESHAP, ACM is material containing more than one percent asbestos as determined using the methods specified in Appendix A, Subpart E, 40 CFR Part 763, Section 1, PLM. The NESHAP classifies ACM as friable or non-friable. Friable ACM is ACM that contains more than one percent asbestos and when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable ACM also contains more than one percent asbestos and is further classified as either Category I ACM or Category II ACM. The materials are distinguished by their potential to release fibers when damaged. Category I ACMs are much more likely to release fibers when damaged. Examples of Category I ACM include acoustical ceilings. Category II materials are less likely to

release fibers. Examples of Category II ACM include other non-friable ACM; such as transite pipe and transite boards or panels.

In accordance with the US EPA's NESHAP regulation, facilities planned for renovation or demolition must be surveyed for the total amount of RACM, Category I Non-friable Asbestos Containing Materials, and Category II Non-friable Asbestos Containing Materials prior to the planned renovation or demolition.

3.3.3 South Coast Air Quality Management District

The South Coast Air Quality Management District (SCAQMD) is a government agency that regulates sources of air pollution within San Bernardino County to protect public health. The District's regulating and enforcement authority comes from state law and, in certain cases, federal law.

In response to the NESHAP requirements, SCAQMD implemented Rule 1403 that pertains to demolition/renovation activities including the removal and associated disturbance of ACMs. These requirements for demolition and renovation activities include notification, ACM removal procedures, time schedules, ACM handling and cleanup procedures, storage, disposal, and landfill requirements for asbestos-containing waste materials. Rule 1403 is applicable to owners and operators of any demolition or renovation activity and associated disturbance of ACMs. Failure to comply with Rule 1403 requirements could result in violations that carry daily penalties (penalties assessment is based upon the size of the project and severity of noncompliance).

The SCAQMD's Rule 403/Fugitive Dust was created to reduce the amount of particulate matter entrained in the ambient air as a result of man-made fugitive dust sources, such as road construction and grading. Although not specific to asbestos, Rule 403 outlines best available control measures that could apply to the disturbance of asbestos-containing soils.

3.3.3 Asbestos Hazard Emergency Response Act

The Asbestos Hazard Emergency Response Act (AHERA) requires performance of asbestos surveys and the development of Asbestos Management Plans for all of the nation's primary and secondary schools. The general procedures mandated under AHERA are considered the industry standard and are applied to all surveys performed.

3.3.4 California Occupational Safety and Health Administration (Cal-OSHA)

Per Cal-OSHA standards, 1926.1101, Asbestos-Containing Construction Materials (ACCMs) are defined as any material with an asbestos content greater than one-tenth of one percent (>0.1%). Cal-OSHA sets forth work requirements for disturbance of ACCMs including removal operations for all types of ACCMs. The requirements have been classified as Class I, Class II, Class III, or Class IV Asbestos related work. The classes are distinguished by their potential to release fibers. Cal-OSHA prescribes specific engineering controls and work practices for each Class of Asbestos related Work.

- ❑ Class I – This Class refers to removal of ACMs identified as Thermal System Insulation (TSI) or surfacing (sprayed-on or troweled-on) materials. These materials are generally considered friable.
- ❑ Class II – This Class refers to removal of ACMs identified that are not TSI or surfacing materials. These materials are generally considered non-friable.
- ❑ Class III – This Class refers to repair and maintenance operations of all identified ACMs.
- ❑ Class IV – This Class refers to incidental contact with identified ACMs such as custodial staff.

3.3.4 California Health and Safety Code

The California Health and Safety Code 25915 (former Connelly Bill) requires all building owners in the State of California to provide written notification to employees, tenants, and contractors of the presence and location of ACCMs within their buildings. Some exclusion to the notification rule for restricted access areas is allowed. All documentation related to asbestos surveys (and air monitoring) must be made available to employees, tenants, or contractors for review. ACCMs are defined as any materials with an asbestos content greater than one-tenth of one percent (>0.1%).

The California Health and Safety Code also requires that a seller with any knowledge of ACMs on a property disclose such information or knowledge to other parties involved in a real estate transaction.

3.3.5 ASBESTOS REMOVAL AND BUILDING DEMOLITION/RENOVATION

In accordance with the US EPA's NESHAPs regulation and the SCAQMD, all structures planned for renovation or demolition must be surveyed for ACMs prior to the planned renovation or demolition. Subsequent removal of identified ACMs is also required. Removal involves, to the greatest extent practical, the complete removal, disposal, and replacement, if necessary, of the ACMs. Removal usually also requires encapsulation of the remaining structure to lock down residual fibers which may exist. Removal of ACMs is required prior to renovation and/or demolition activities.

The US EPA and SCAQMD require removal of all RACMs prior to demolition or renovation. RACMs include friable and non-friable (Category I and II) which have or will become friable by demolition or renovation activities.

4.0 ACM SURVEY METHODOLOGY

4.1 Visual Inspection

Building materials were visually inspected for asbestos using the methods presented in the Federal AHERA regulations (40 CFR, Part 763) as a guideline. The principles presented under the US EPA Asbestos-Containing Materials in Schools, Final Rule and Notice is generally accepted as the industry standard for ACM inspections. Potential ACMs were also physically assessed for friability, condition, and disturbance factors.

Reasonable efforts were made to locate and sample materials representative of the entire site. However, for any facility the existence of unique or concealed materials or debris is a possibility. It is common practice to collect additional bulk samples during actual abatement or demolition activities when hidden suspect ACMs are discovered.

DRAFT

4.2 Bulk Sampling for Asbestos

Bulk samples of all homogeneous materials containing suspect ACMs were collected. A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in use, color, and texture.

Bulk samples were collected to evaluate if there is any asbestos in representative material. The sample result identifies the percentage of each type of asbestos detected.

AHERA sample criteria guidelines are followed to determine the number of samples collected off each homogeneous area as identified in the table below.

AHERA Sample Criteria	
<i>Type of Material (Homogeneous area)</i>	<i>AHERA Recommended Number of Samples (per Homogeneous Material)</i>
Surfacing (sprayed/troweled) ex. acoustical ceilings: Less than 1000 ft ² 1000 – 5000 ft ² Greater than 5000 ft ²	Three Five Seven
Thermal System Insulation such as pipe insulation and wrap	Three
Miscellaneous Materials such as (but not limited to) floor tile, drywall, and roofing.	Number of samples is the discretion of the Building Inspector. Typically two to three samples collected.

A sample approximately one-half square inch in size was collected off each suspect ACM. The sample was collected by removing the material using a chisel or other sharp instrument to cut a representative piece away. No attempt was made to replace or repair these materials. However, the removal of small pieces of building materials does not typically compromise structural integrity. A plastic bag was used to contain the sample of suspect material and quickly sealed to prevent the escape of the material or the introduction of contamination from outside sources. A unique sample number was assigned to each sample.

4.3 Asbestos Laboratory Testing

EMC Analytical Laboratories of Phoenix, Arizona, analyzed select samples. EMC is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP), and the State of Arizona and California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) for the analysis of asbestos in bulk building material samples.

All samples were analyzed using PLM techniques in accordance with methodology approved by the US EPA. According to the US EPA, ACM is defined as material containing more than one percent asbestos. The lower limit of reliable detection for asbestos using the PLM method is approximately one percent by volume; however, Cal-OSHA defines ACMs as those materials having an asbestos content greater than one-tenth of one percent ($>0.1\%$).

When "None Detected" (ND) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM method which is material dependent and is something less than one percent.

5.0 LEAD-BASED PAINT SURVEY

5.1 BACKGROUND

Lead is a pliable, soft metal that is used in the construction of pipes, rods, and containers. Before 1978, lead was a common ingredient in paint because it added strength, shine and extended the life of the paint. Lead-based paint is recognized as a potential health risk due to the known toxic effects of lead exposure (primarily through ingestion) on the central nervous system, kidneys, and blood stream. Concern for lead-based paint is primarily related to residential structures, which in addition, may apply to commercial structures. The risk of lead toxicity of lead-based paint varies based upon the condition of the paint and the year of its application. The Department of Housing and Urban Development (HUD) has identified the following risk factors, based on the age of the structure:

- The maximum risk is from paint applied before 1950.
- There is severe risk from paint applied before 1960.
- There is moderate risk from deteriorated paint applied before 1970.
- There is a slight risk from paint that is intact but applied before 1977.
- Paint applied in 1977 or later is not expected to contain lead at elevated levels.

5.2 CURRENT REGULATIONS

The following is a summary of current state and federal regulations which contain requirements regarding lead-based paint. These summaries are not intended to be all inclusive and do not contain every aspect of the regulations discussed. Regulations pertaining to the removal and disposal of lead-based paint are not included.

5.2.1 Department of Housing and Urban Development

The *Guidelines for the Evaluation and Control of Lead-based Paint Hazards in Housing*, HUD, 1995 (revised September 1997) *Lead Requirements for Lead-based Paint Activities in Target Housing and Child-Occupied Facilities: Final Rule*, (40 CFR Part 745), US EPA, 29 August 1996, define Lead-Based Paint as: paint, varnish, shellac, or other coating on surfaces that contain 1.0 mg/cm², 5,000 ppm, or more of lead or 0.5 percent or more lead by weight.

5.2.2 California Occupational Safety and Health Administration

Cal-OSHA governs all construction work where an employee may be occupationally exposed to lead (Construction Lead Standard, CCR Title 8, Section 1432.1). The Cal-OSHA Construction Lead Standard was effective as of November 4, 1993.

The Lead Standard states that work which involves the disturbance of materials containing more than 0.50 percent lead by weight must be conducted in accordance with the standard. In addition, Cal-OSHA regulations (Standards – 29CFR 1926.62 App A) would apply to workers exposed to lead through inhalation. The permissible exposure limit (PEL) set by the standard is 50 micrograms of lead per cubic meter of air, averaged over an 8-hour workday.

As outlined in the Cal-OSHA Construction Lead Standard, construction work (of lead-containing material) includes, but is not limited to the following:

- Demolition or salvage of structures
- Removal or encapsulation
- New construction, alteration, repair or renovation
- Installation of products
- Lead contamination/emergency cleanup
- Transportation, disposal, storage or containment
- Maintenance operations.

Painted surfaces which are in good condition do not require any action. However, if the painted surfaces are disturbed so as the paint delaminates or becomes flaking or peeling, the above Standard applies.

5.2.3 State of California Department of Health Services

California regulation; Title 17, CCR, Division 1, Chapter 8, requires notification to the Cal-DHS when a lead hazard evaluation survey is conducted at a Site. A copy of the Lead Hazard Evaluation Report for the Site is included in Appendix C.

5.2.4 Hazardous Waste Regulations

Waste materials containing lead may be subject to regulations controlling the transportation and disposal of such materials. In California, the Department of Toxic Substances Control (DTSC) regulates the generation, transportation, treatment, storage and disposal of lead containing wastes that qualify as hazardous waste. Lead containing wastes may be classified as a hazardous waste based on toxicity characteristic by any one of the following Federal (RCRA) or State thresholds (California Code of Regulations, Title 22, Section 66261.24),

- Federal:
 - Toxicity Threshold = 5 mg/L (Toxicity Leaching Characteristic Procedure [TCLP])
- California:
 - Total Threshold Limit Concentration = 1,000 mg/kg
 - Soluble Threshold Limit Concentration = 5 milligrams per liter (mg/L) (California Waste Extraction Test)

In general, bulk demolition wastes do not exhibit sufficient lead concentration to be classified as a hazardous waste based on the above criteria as result of the bulk weight of the waste in comparison to the weight of lead in the painted surface. However, if the paint is stripped, the paint and stripping media may be classified as a hazardous waste and regulations controlling the generation, storage, treatment, transportation and disposal of lead containing hazardous waste will need to be implemented and observed. Additional health and safety requirements and protocols may also be required to prevent exposure and spreading of the waste material.

Where possible, materials containing lead over 50 mg/kg should be disposed of as a bulk waste to avoid the generation of hazardous waste.

5.3 LEAD PAINT REMOVAL REQUIREMENTS

The Cal-OSHA Lead Standard states that work which involves the disturbance of materials containing more than 0.5 percent lead by weight, or if the permissible exposure limit of airborne lead particulate of 50 micrograms per cubic meter of air is exceeded, then the work must be conducted in accordance with the standard. HUD and Cal-OSHA have defined lead-based paint as any paint which contains more than 0.5 percent lead by weight.

LBP noted to be in a good, non-flaky condition that would be removed with the paint intact, would require no special handling of the painted surface prior to renovations or demolition. However, it would be recommended that identified LBP in good condition be encapsulated by a paint film stabilizer prior to renovations or demolition. If the LBP paint would be disturbed and rendered in a flaky condition during renovations or demolition, removal of the paint prior to demolition would be required.

5.4 LBP SURVEY METHODOLOGY

5.4.1 Visual Inspection

Building materials were visually inspected for evidence of blistered or peeling paint. Painted surfaces exhibiting evidence of peeling or blistering were documented in the field notes along with a description of the structural member and approximate area observed to be peeling or blistered.

5.4.2 Bulk Sampling for LBP

Representative bulk samples of paint were collected from the various types of paint and painted surfaces. Where possible, a sample approximately one-half square inch in size was collected from each painted surface. The sample was collected by removing the paint using a chisel or other sharp instrument to cut a representative piece away. No attempt was made to replace or repair these materials. However, the removal of small pieces of building materials does not typically compromise structural integrity.

Each sample was placed in a Ziploc® plastic resealable bag and labeled (sample date, unique identifying number, sampler name, and job site), recorded on a chain of custody sheet and securely packaged for delivery to the laboratory. The sample number, location, material type, etc. were also recorded on field logs.

5.4.3 LBP Laboratory Testing

EMC Analytical Laboratories of Phoenix, Arizona, analyzed select samples. EMC is accredited under the National Institute of Standards and Technology's NVLAP, and the State of Arizona and California Department of Health Services ELAP for the analysis of LBP.

Samples were analyzed by EMC SOP Method #L01/1, after US EPA SW-846 Method 7420. US EPA, defines Lead-Based Paint as: paint, varnish, shellac, or other coating on surfaces that contains 0.5 percent or more lead by weight.

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6.0 ASSESSMENT RESULTS

6.1 ASBESTOS SURVEY

Stantec conducted an inspection of the accessible portions of the bridge structures to determine whether suspect asbestos-containing materials (ACMs) were present. As part of the asbestos survey, representative bulk material samples were collected of suspect ACM containing materials on July 28 and 31, 2009.

Stantec submitted collected samples to EMC Analytical Laboratories. EMC is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP), and the States of Arizona and California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) for the analysis of asbestos in bulk building material samples.

All samples were analyzed using Polarized Light Microscopy (PLM) techniques in accordance with methodology approved by the EPA. According to the EPA, ACM is defined as material containing more than one percent asbestos. According to Cal-OSHA, ACBM is identified as 0.1 percent asbestos. The lower limit of reliable detection for asbestos using the PLM method is approximately 1 percent by volume. However, the PLM technique can identify Cal-OSHA ACBMs. Although PLM methodology cannot quantify the exact percentage of asbestos detected less than 1 percent, if a sample had any quantity of asbestos, the laboratory, using PLM techniques, would identify these materials as containing "Trace" amounts of asbestos (< 1 percent). Only materials containing no fibers at all are identified as "None Detected".

6.2 NON-ACMS MATERIALS

The following materials were sampled and no asbestos was detected (this is not meant as a complete listing of building materials observed within the structures):

- Concrete Bridge Components
- Concrete Embankment
- Concrete Support Pillars
- Concrete Road Base
- Asphalt Road Base
- Expansion Joint Felt
- Steel Guardrails (not a suspect material)

6.3 ASBESTOS SAMPLING RESULTS

As part of the asbestos survey, bulk material samples were collected from representative homogeneous building materials on the structures. According to the EPA, ACM is defined as material containing more than one percent asbestos.

6.4 SAMPLING RESULTS AND IDENTIFIED ACMS

As part of the asbestos survey, bulk material samples were collected from representative homogeneous building materials on the structures. All samples were analyzed using Polarized Light Microscopy (PLM) techniques in accordance with methodology approved by the EPA. According to the EPA, ACM is defined as material containing more than one percent asbestos. The sample locations and laboratory results are provided in the table section (Table 1). The sample locations are shown on the attached Figures.

The following is a description of results, bridge by bridge. Identified materials that contain greater than one-percent asbestos are described by the US Environmental Protection Agency (USEPA), as Regulated Asbestos Containing Materials (RACM), Category 1, materials that may become friable if disturbed (such as demolition activities).

Columbia Street Bridge:

The following RACMs were identified on the Columbia Street Bridge

Guardrail Post Shims – Stantec observed sixty guardrail posts on the Columbia Street Bridge. Of the sixty guardrail posts, ten were observed with shims. Fibrous shims were used beneath selected guardrail posts for leveling purposes. The shims measure approximately “8-inches x 8-inches”. The shim material collected and tested from the bridge contains 90 percent asbestos. The shims, approximately 1/8 inch thickness, were observed at the base of ten guardrail posts representing an estimated total area of approximately 3.6 square feet of asbestos containing material. The material was observed to be in good condition, but due to its fibrous nature, is considered a friable ACM Material.

Silver/Gray Bolt Mastic - Stantec observed a gray-colored mastic material coating the guardrail post bolts. The bolt mastic material contains 3 percent asbestos. The gray mastic was observed to be in good condition and is therefore considered a non-friable ACM material. The gray mastic was observed on random bolts, but most likely is no more than 5 square feet (accumulatively) of ACM mastic material.

Center Street Bridge:

The following RACMs were identified on the Center Street Bridge

Guardrail Post Shims – Stantec observed seventy-one guardrail posts on the Center Street Bridge. Of the seventy-one guardrail posts, six were observed with shims. Fibrous shims were used beneath selected guardrail posts for leveling purposes. The shims measure approximately “8-inches x 8-inches”. The shim material collected and tested from the bridge contains 85 percent asbestos. The shims, approximately 1/8 inch thickness, were observed at the base of six guardrail posts representing an estimated total area of approximately 2.16 square feet of asbestos containing material. The material was observed to be in good condition, but due to its fibrous nature, is considered a friable ACM Material.

Iowa Avenue Bridge

Of the representative materials sampled, no asbestos containing material were identified on the low a Avenue Bridge. No leveling shims or guard posts were observed on the bridge railing.

Barton Road Bridge

Of the representative materials sampled, no asbestos containing material were identified on the Barton Road Bridge. No leveling shims or guard posts were observed on the bridge railing.

Newport Avenue Bridge

Of the representative materials sampled, no asbestos containing material were identified on the Newport Avenue Bridge. No leveling shims or guard posts were observed on the bridge railing.

Washington Street Bridge

Of the representative materials sampled, no asbestos containing material were identified on the Washington Street Bridge. No leveling shims or guard posts were observed on the bridge railing.

6.5 ASBESTOS RECOMMENDATIONS

Stantec recommends that, prior to demolition activities, a licensed asbestos abatement firm be contracted to remove identified RACMs. The RACMs identified were generally in good condition. The identified RACMs will require removal prior to demolition activities in accordance with the USEPA NESHAP and the local South Coast Air Quality Management District (SCAQMD). This work should be completed following the SCAQMD guidelines.

Typical engineering controls for Class I ACM work/demolition include:

- Vacuum cleaners equipped with HEPA filters to collect all debris and dust containing ACM and PACM.
- Wet methods, or wetting agents, to control worker exposures during asbestos handling, mixing, removal, cutting, application, and cleanup, except where contractors demonstrate that the use of wet methods is infeasible due to for example, the creation of electrical hazards, or equipment malfunction.
- Prompt clean up and disposal of wastes and debris contaminated with asbestos in leak-tight containers.
- Work supervised by a certified competent person.
- Use of one of the following methods to ensure that airborne asbestos does not migrate during abatement activities:
 - Critical Barriers shall be placed over all opening to regulate area; or
 - The contractor shall use another barrier or isolation method which prevents the migration of airborne asbestos from the regulated area, as verified by perimeter area monitoring or clearance monitoring.

- Impermeable drop cloths shall be placed on surfaces beneath all removal activity.

Asbestos work shall also be performed by complying with the work practices and controls designated for each type of asbestos work to be performed as set out in the asbestos standard. Where more than one control method may be used for a type of asbestos work, the contractor may choose one or a combination of designated control methods.

The sample locations and laboratory results are provided in Table 1. The sample locations are shown on the attached Figure 2. Any action that disturbs ACMs is subject to Federal, State, and local regulations. "Disturbance" means activities that disrupt the matrix of ACM or presumed ACM (PACM), or generate visible debris from ACM or PACM. Therefore, Stantec recommends that, prior to renovation or demolition activities, a licensed asbestos abatement firm be contracted to remove the identified RACM shim and bolt mastic materials. The identified RACMs will require removal in accordance with the USEPA NESHAP and the local South Coast Air Quality Management District (SCAQMD) Rule 1402. The asbestos abatement contractor should comply with Rule 1403 and provide at least a 10-day notification prior to asbestos removal.

Asbestos is not listed as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, asbestos is listed as a hazardous waste under the Toxic Substances Control Act. The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or "Superfund") also includes asbestos in its list. Some wastes are not considered "hazardous", but are regulated. In general, California regulations are more stringent than federal regulations regarding the handling of asbestos. Therefore, the asbestos abatement contractor should dispose of ACMs in accordance with all state and federal applicable laws.

6.6 LEAD-BASED PAINT SURVEY

The Cal-OSHA Lead Standard (the "Standard") states that work which involves the disturbance of materials containing more than 0.5 percent lead by weight, or 5,000 ppm, or if the permissible exposure limit of airborne lead particulate of 50 micrograms per cubic meter of air is exceeded, then the work must be conducted in accordance with the Standard.

An inspection of the bridge components was conducted to evaluate the location, and condition of painted surfaces and random surfaces suitable for lead-based paint sampling. Other than graffiti cover paint, no surfaces on the bridge structures were observed to be painted. Samples of both yellow and white roadway striping were collected at random locations for lead analysis. Table 2 and the attached Figures identify the areas where lead-based paint samples were collected.

Paint chips were removed to the substrate. EMC Analytical Laboratories of Phoenix, Arizona, analyzed the samples. All samples were analyzed by EMC SOP Method #L01/1, after US EPA SW-846 Method 7420.

Of the roadway striping that was tested, Lead was reported in concentrations above 0.5 percent by weight (or 5,000 ppm) in the following three representative paint chip samples:

Columbia Street Bridge – Yellow Center Stripe, approximately 296 linear feet
Center Street Bridge - Yellow Center Stripe, approximately 240 linear feet
Washington Street Bridge Yellow Center Stripe, approximately 225 linear feet

None of the white striping or grey graffiti cover representative paint chip samples collected from the bridges exceeded HUD/Cal-OSHA action levels of 0.5 percent lead by weight, or 5,000 ppm.

6.7 LEAD-BASED PAINT RECOMMENDATIONS

Based on the field observations and laboratory data, it is estimated that a total of 761 linear feet of yellow LBP center stripe would need to be removed (scraped), collected, and properly disposed. Removal of LBP should be performed in accordance with OSHA Standards (29CFR 1926.62 App. A) for workers exposed to lead through inhalation, and conducted by an abatement company certified by the State of California Department of Health Services. It should be noted that the estimated amount of LBP requiring removal could be reduced by collecting additional paint chip samples that would provide further definition of the LBP present in this area.

Paint chip samples collected and analyzed from representative Site locations below the action levels of 0.5 percent lead by weight, require no special handling with respect to lead-based paint during future roadway work.

If LAN Engineering intends to strip the paint, the waste may be considered a hazardous waste and additional sampling and analysis are recommended for characterization and disposal. However, of the samples collected, none showed detectable concentrations of lead above the California total threshold concentrations limit of 1,000 mg/kg. If structural components are disposed of with the paint coating intact it is unlikely that such wastes will qualify as a hazardous waste.

6.0 CLOSURE

The conclusions and recommendations contained in this report/assessment are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted engineering standards and practices applicable to this location and are subject to the following inherent limitations:

The data and findings presented in this report are valid as of the dates when the investigations were performed. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.

The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Work outlined in Stantec's Work Plan cost proposal dated March 26, 2009.

Unless otherwise stated in the report, because of the limitations stated above, the findings observations, and conclusions expressed by Stantec in this report are not, and should not be, considered an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation.

No warranty or guarantee, whether express or implied, is made with respect to the data or the reported findings, observations, and conclusions, all of which, however, accurately reflect site conditions in existence at the time of investigation.

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This report is based, in part, on unverified information supplied to Stantec by third-party sources. While efforts have been made to substantiate this third-party information, Stantec cannot guarantee its completeness or accuracy.

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FIGURES

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**APPENDIX A
PHOTOGRAPHIC LOG**

APPENDIX B
ANALYTICAL LABORATORY REPORTS AND
CHAIN-OF-CUSTODY RECORDS

**APPENDIX C
QUALIFICATIONS**

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TABLES

TABLE 1
Asbestos Sample Log and Analysis Results
I-215 Bridges: Columbia, Center, Iowa, Barton, Newport, Washington
Highland, Riverside County, California

SAMPLE #	SAMPLING LOCATION	MATERIAL DESCRIPTION	ANALYSIS RESULTS
Columbia Street Bridge Samples			
01C	Top, SW End	Concrete	ND
02C	Beneath, E. End	Concrete	ND
03C	Beneath, W. End	Concrete	ND
04EJF	Beneath, Center	Expansion Joint Felt & Paint	ND
05EJF	Beneath, E. End	Expansion Joint Felt	ND
06S	Top, W. Side, #2	Shim	90% Chrysotile
07S	Top, W. Side, #7	Shim	90% Chrysotile
08M	Guardrail, W. Side #8	Bolt Mastic	ND
09M	Guardrail, W. Side #22	Bolt Mastic	3% Chrysotile
10A	Top, Road, SE Side	Asphalt	ND
Center Street Bridge Samples			
11C	Top, Center, North	Concrete	ND
12C	Top, NE End	Concrete	ND
13C	Top, SW End	Concrete	ND
14C	Beneath, NE End	Concrete	ND
15C	Beneath, E. End	Concrete	ND
16A	NW End, Roadway	Asphalt	ND
17A	NE End, Roadway	Asphalt	ND
18S	SW End, #69	Shim	85% Chrysotile
19S	SW END, #69	Shim	85% Chrysotile
Iowa Street Bridge Samples			
20C	Top, E. End	Concrete	ND
21C	Top, Center	Concrete	ND
22C	Top, NW End	Concrete	ND
23C	Top, SW End	Concrete	ND
24C	Beneath, NW End	Concrete	ND
25C	Beneath, NW End	Concrete	ND
26C	Abutment, SW End	Concrete	ND
27C	Center, Pillar, W End	Concrete	ND
28A	NE End, Roadway	Asphalt	ND
29A	NW End, Roadway	Asphalt	ND
30A	SW End, Roadway	Asphalt	ND
31EJF	E. End	Expansion Joint Felt	ND
32EJF	NW End	Expansion Joint Felt	ND
Barton Road Bridge Samples			

TABLE 1 (Continued)
Asbestos Sample Log and Analysis Results

SAMPLE #	SAMPLING LOCATION	MATERIAL DESCRIPTION	ANALYSIS RESULTS
33C	Top, NE End	Concrete	ND
34C	Top, NW End	Concrete	ND
35C	Top, Center	Concrete	ND
36C	Abutment, NW End	Concrete	ND
37C	NW Pillar	Concrete	ND
38A	NE End, Roadw ay	Asphalt	ND
39A	NW End, Roadw ay	Asphalt	ND
40A	Center, Roadw ay	Asphalt	ND
41EJF	NE End, Top	Expansion Joint Felt	ND
Newport Avenue Bridge Samples			
42C	Beneath, NW Pillar	Concrete	ND
43C	Top, N End	Concrete	ND
44C	Abutment, NW End	Concrete	ND
45C	Center, Top, S. Side	Concrete	ND
46C	Beneath, NW End	Concrete	ND
47C	Top, SW Side	Concrete	ND
48C	Top, NE Side	Concrete	ND
49C	Top, NW Side	Concrete	ND
50C	Top, SE Side	Concrete	ND
51A	NE End, Roadw ay	Asphalt	ND
52A	SE End, Roadw ay	Asphalt	ND
53A	SW End, Roadw ay	Asphalt	ND
54A	NW End, Roadw ay	Asphalt	ND
55EJF	N, Center, Beneath	Expansion Joint Felt	ND
Washington Street Bridge Samples			
56C	Top, N, Center	Concrete	ND
57C	Top, NE Side	Concrete	ND
58C	Top, NW Side	Concrete	ND
59C	Top, SW Side	Concrete	ND
60C	Beneath, NW End	Concrete	ND
61C	Beneath, Pillar	Concrete	ND
62A	NE End, Roadw ay	Asphalt	ND
63A	NW End, Roadw ay	Asphalt	ND
64A	SW End, Roadw ay	Asphalt	ND
65EJF	NW End, Beneath	Expansion Joint Felt, Gray Coating	ND

ND = No asbestos detected.

NOTE: Asbestos sample locations are depicted on attached Figures.

TABLE 1 (Continued)
Asbestos Sample Log and Analysis Results

Bulk sample analyses completed by polarized light microscopy (PLM).

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TABLE 2**Lead-Based Paint Sample Log and Analysis Results**

I-215 Bridges: Columbia, Center, low a, Barton, New port, Washington
Highland, Riverside County, California

SAMPLE NUMBER	SAMPLE LOCATION	% Pb/BY WEIGHT
Columbia Street Bridge Samples		
01PC	NW Abutment, Gray	0.013
02PC	NW Abutment, Gray	0.013
03PC	Yellow Center Stripe	2.48
04PC	Yellow Center Stripe	0.285
05PC	White Lane Stripe	0.031
06PC	White Lane Stripe	0.111
Center Street Bridge Samples		
07PC	SE Abutment, Gray	BRL
08PC	SE Abutment, Gray	BRL
09PC	White Border Stripe	0.011
10PC	Yellow Center Stripe	0.860
low a Avenue Bridge Samples		
11PC	Yellow Center Stripe, East	BRL
12PC	Yellow Center Stripe, East	BRL
13PC	Yellow Center Stripe, West	BRL
Barton Road Bridge Samples		
14PC	White Stripe, Turn Lane W End	BRL
15PC	White Stripe, W. End	BRL
16PC	Yellow Center Stripe, NE End	0.081
17PC	Yellow Center Stripe, W End	0.048
Newport Avenue Bridge Samples		
18PC	Gray Graffiti Cover, NW Side	0.014
19PC	Gray Graffiti Cover, NW Side	0.010
20PC	Gray Graffiti Cover, SW Pillar	0.013
Washington Street Bridge Samples		
21PC	White Stripe, N. Center	BRL
22PC	White Stripe, NW End	BRL
23PC	Yellow Center Stripe, Center	0.869
24PC	Gray Graffiti, NW End	BRL
25PC	Gray Graffiti, NW End	BRL

Mg/Kg = Milligrams per Kilogram

Pb = Lead

Analytical documentation is in Appendix B. Paint Chip sample locations are depicted on the attached Figure. Sample analyses completed by EMC SOP Method #L01/1, US EPA SW-846 Method 7420

**INITIAL SITE ASSESSMENT
BARTON ROAD/I-215
INTERCHANGE IMPROVEMENTS PROJECT
GRAND TERRACE,
SAN BERNARDINO COUNTY, CALIFORNIA**

February 10, 2010

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**INITIAL SITE ASSESSMENT
BARTON ROAD/I-215
INTERCHANGE IMPROVEMENTS PROJECT
GRAND TERRACE, SAN BERNARDINO COUNTY, CALIFORNIA**

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February 10, 2010

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Appendix A	Initial Site Assessment (ISA) Checklist
Appendix B	Research Documentation (CD)
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	Historical Aerial Photographs
	Sanborn Map Search Results
	Historical Topographic Maps

1.0 EXECUTIVE SUMMARY

Kleinfelder has completed this Initial Site Assessment (ISA) for LSA Associates, Inc. (LSA/Client) for proposed improvements to the Barton Road/Interstate 215 (Barton Road/I-215) interchange located in Grand Terrace, San Bernardino County, California (site or study area). The study area is shown on the attached Plate 1, Site Vicinity Map, and Plate 2, Site Map. The project is planned to meet the area's needs based on recent and projected growth trends throughout the area. This ISA was performed consistent with the California Department of Transportation's (Caltrans) Initial Site Assessment (ISA) Checklist for Hazardous Waste (Appendix DD, Hazardous Waste, Project Development Procedures Manual, 7/1/99). The completed Initial Site Assessment Checklist pursuant to Caltrans' Guidelines is included in Appendix A.

At the interchange, I-215 has three lanes in both the northeast and southwest directions separated by a median. Barton Road currently exists as a two-lane road in the easterly and westerly directions, crossing over I-215. The proposed Barton Road/I-215 Interchange Improvement Project involves creating new on and off ramps in each direction of the I-215, expanding the bridge overpass and the I-215, as well as expanding and improving Commerce Way.

During the conduct of the ISA, the following information that could potentially affect environmental conditions at the site was revealed:

1. Based on a review of historical aerial photographs and topographic maps, agricultural fields and orchards occupied the site from 1930 through at least 1966. An aerial photograph from 1930 depicts Barton Road and most ancillary streets as developed roadways, while I-215 was developed sometime after 1953 and prior to 1966. By and subsequent to 1966, the area had become, and continued to develop into a more commercial and residential area. Three service station facilities were depicted by 1966. The Atchinson Topeka and Santa Fe Rail Road tracks and Southern Pacific Rail Road (now Union Pacific Rail Road) tracks were visible in the maps and photos as early as 1901, adjoining the site to the west. The potential exists for hydrocarbons and persistent pesticides to be present in soil along or adjacent to the railroad tracks. Also, persistent pesticides may remain, based

- on the historical agricultural use of the area. Additionally, the potential exists for buried asbestos containing cementitious pipe (“transite”) to be present within the study area, which were commonly used for water transportation as part of historical agricultural practices. If the Client desires a greater level of certainty with respect to persistent pesticides and hydrocarbons, sampling and analysis should be conducted during the PA&ED phase of this project. Additionally, if signs of transite piping are observed during construction activity, sampling and analysis should be conducted.
2. Elevated concentrations of lead (from use of leaded gasoline) and other metals are sometimes associated with older roadways. Roadways in the location of both Barton Road and I-215 (historic route 395) were depicted on historical aerial photographs beginning in 1930 and 1966, respectively. It is Kleinfelder’s understanding that sampling for Aerial Deposited Lead (ADL) has already been performed for the site and results will be submitted under separate cover. Residual concentrations of hydrocarbons may have also collected in the runoff. If the Client desires a greater level of certainty or observes signs of potential impact (odors, discolored soil, etc.) during construction activity, sampling and analysis can be conducted.
 3. Yellow traffic markings (thermoplastic and paint) located on I-215, Barton Road, and ancillary roads associated with the study area potentially contain hazardous levels of lead chromate. Yellow traffic markings removed separately from the adjacent pavement should be removed and sampled for lead chromate prior to construction, consistent with Caltrans’ non-standard SSP 14-001.
 4. Multiple pad-mounted transformers were observed on adjoining properties, as well as multiple pole-mounted transformers observed along Barton Road, Commerce Way, Michigan Avenue, DeBerry Street, and La Cross Avenue. Multiple pole-mounted transformers were also observed along other streets in the vicinity of the project area. The transformers appeared to be in good condition, with no visible leaks and no visible soil staining. Many of these transformers are unlikely to be impacted by the proposed development. Should it be deemed that transformer removal be required, Kleinfelder recommends that Southern California Edison (SCE) be contacted prior to handling or removal of electric transformers. Should wooden utility poles

- require removal, it is recommended that additional sampling and analysis be conducted to assess the presence of creosote (often associated with the preservation of wooden utility poles) and resultant waste managed appropriately.
5. Five leaking underground storage tank (LUST) facilities are listed in the database within the requisite search distance. Three of these facilities are located within site boundaries. These sites include Qwik Stop ARCO (located at 22087 Barton Road, EDR Map ID 27), Grand Terrace Gas-Up (located at 22115 Barton Road, EDR Map ID 28), and Texaco Service Station (also listed on the LUST database as Former Shell Station [and currently a Shell Station] located at 22045 Barton Road, EDR Map ID 29). The underground storage tank (UST) database contains facilities with registered underground storage tanks. The Qwik Stop (listed here as Qwik Stop #5) and Texaco (listed here as Takourian Texaco) are listed on this database. One facility listed in the HIST UST database, Ruben Luna (located at 21801 Barton Road, EDR Map ID 21), and one site listed in the HAZNET database, A-1 Cleaners (located at 21900 Barton Road, EDR Map ID 22), have the potential for negatively impacting the site. Soil and groundwater assessment should be performed during the PA&ED phase of this project to evaluate whether more extensive subsurface investigation is needed. Additionally, based on the potential for encountering impacted groundwater, soil, or for soil vapor migration, Caltrans Unknown Hazard Procedures should be implemented during construction activities in the vicinity of these facilities, and the resident engineer overseeing construction should have available field monitoring equipment (e.g., photoionization detector [PID]) to facilitate timely detection of potentially hazardous conditions in the field.
 6. Insufficient information was available for Orkin Pest Control (2233 La Crosse Avenue, EDR Map ID 34), Automotive FBR Generator (21823 Barton Road), Pas Tex Plastics facility (21825 Barton Road), Ruben Luna (located at 21801 Barton Road, EDR Map ID 21), and A-1 Cleaners (EDR Map ID 22, located at 21900 Barton Road #130). Given the nature of these listings and insufficient records available, further subsurface assessment activities (specifically for the Ruben Luna and A-1 Cleaners facilities) should be performed during the

PA&ED phase of this project to evaluate whether more extensive subsurface investigation is needed.

7. Since current plans for the Barton Road/I-215 Intersection Improvements Project include the partial demolition and widening of the Barton Road overpass and potential demolition of buildings and other structures, a survey and sampling for asbestos and lead-based paint should be conducted prior to any demolition. Surveys for building asbestos and lead-based paint should be conducted during the PA&ED phase of this project. The surveys should be in conformance with the EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR regulation, and South Coast Air Quality Management District's (SCAQMD) Rule 1403. Additionally, notification of the SCAQMD prior to any structure renovation or demolition is mandatory according to Rule 1403 (d)(1)(B).
8. Additionally, although excavation activities associated with the proposed project are not likely to encounter groundwater, should groundwater be encountered during construction/excavation activities and dewatering become necessary, regulatory compliance and permitting consistent with Santa Ana Regional Water Quality Control Board (SARWQCB) and National Pollutant Discharge Elimination System (NPDES) should be adhered to, and groundwater sampling should be conducted.
9. It is also recommended that all hazardous waste testing should be conducted prior to the completion of PA&ED so that any special handling, treatment, or disposal provisions associated with hazardous wastes may be included in construction documents.

2.0 INTRODUCTION

2.1 PURPOSE

This ISA was conducted in general accordance with Caltrans' Initial Site Assessment (ISA) Checklist for Hazardous Waste (Appendix DD, Hazardous Waste, Project Development Procedures Manual, 2/28/06). The completed Initial Site Assessment Checklist per Caltrans' Guidelines is included in Appendix A. Additionally, we have prepared this report consistent with the scope of services outlined in our proposal entitled *Initial Site Assessment Scope of Services, I-215 BiCounty Improvement Project from SR-60/SR-91/I-215 Interchange to Orange Show Road*, dated June 4, 2008. Resumes of environmental professionals conducting this site assessment are on file at Kleinfelder's office and are available upon request.

2.2 DETAILED SCOPE-OF-SERVICES

The following sections describe Kleinfelder's work scope:

- Chapter 3, **Records Review**, is a compilation of Kleinfelder's review of several databases available from the Federal, State, and local regulatory agencies regarding hazardous substance use, storage, or disposal at the subject site; and for off-site facilities generally up to a ¼-mile radius from the site. This chapter includes interviews and telephone conversations conducted by Kleinfelder with people knowledgeable about the site and local regulatory personnel. This chapter will also present information obtained from historical resources to supplement regulatory agency database records.
- Chapter 4, **Visual Survey**, is a compilation of information concerning the site's location, physical setting, and geologic and hydrogeologic conditions. This chapter also describes Kleinfelder's site observations during the site reconnaissance and observations of adjacent parcels.
- Chapter 5, **Evaluation**, is a presentation of our findings and opinions regarding the information in Chapters 3 and 4, and presents our conclusions regarding the potential for hazardous waste involvement in the proposed project.
- Chapter 6, **References**, is a summary of the resources used to compile this report.

Pertinent documentation regarding the subject site is included in Appendices of this report.

2.3 SIGNIFICANT ASSUMPTIONS

The subject property is hereafter referred to as the “site,” “study area,” and “interchange.” The site boundaries are based on a generalized area encompassed by several alternative proposed alignments. The site conditions discussed herein are limited to readily-apparent environmental conditions observed from the roadway, since individual parcel access was not granted.

2.4 LIMITATIONS AND EXCEPTIONS

Environmental assessments are non-comprehensive by nature and are unlikely to identify all environmental problems or eliminate all risk. The attached report is a qualitative assessment. Kleinfelder offers a range of investigative and engineering services to suit the needs of our clients, including more quantitative investigations. Although risk can never be eliminated, more detailed and extensive investigations yield more information, which may help you understand and better manage your risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level of service, which will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss this issue of risk further.

No warranty, either express or implied is made. Environmental issues not specifically addressed in the report were beyond the scope of our work and not included in our evaluation.

Land use, site conditions (both on-site and off-site) and other factors will change over time (e.g. Environmental Data Resources [EDR] DataMap™ Area Study). Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings and opinions can be considered valid only as of the date of the site visit. Additionally, site conditions observed were limited to readily-apparent environmental conditions observed from the roadway, since individual parcel access was not granted. This report should not be relied upon after 180 days from the date of its issuance.

This report may be used only by the Client and only for the purposes stated within a reasonable time from its issuance, *but in no event later than 180 days from the date of the report*. Land or facility use, on and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Any party other than the Client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the Client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party *and client agrees to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance*.

2.5 SPECIAL TERMS AND CONDITIONS

No special terms and conditions, in addition to those discussed in the previous Chapters, were agreed to by the Client and Kleinfelder.

3.0 RECORDS REVIEW

The records review is presented to assess the significance of potential on- and off-site impact from potential constituents of concern, if present. Presently, Barton Road crosses over Interstate 215, north of De Berry Street and south of Vivienda Avenue, in the city of Grand Terrace, California. Barton Road is two lanes, while I-215 is three lanes in each direction (six total), separated by a concrete median. Pictures of the intersection are presented as Plates 3 and 4. The site location is shown on Plate 1.

3.1 PROPOSED PROJECT DESCRIPTION

The City of Grand Terrace, in cooperation with the San Bernardino Associated Governments (SANBAG) and Caltrans, is proposing to improve the existing interchange at Barton Road/ I-215. The proposed project would reconstruct the existing I-215/Barton Road Interchange consistent with the Circulation Element of the City of Grand Terrace General Plan and would accommodate projected traffic volumes through 2035. The project proposes to realign the freeway on-ramps and off-ramps, as well as realign Barton Road, La Crosse Avenue, Commerce Way and Grand Terrace Road. It also involves the widening of Barton Road over the freeway.

3.2 SITE SETTING

The study area includes the existing Barton Road overcrossing situated over the I-215 freeway, associated on- and off-ramps, La Crosse Avenue, Commerce Way, Grand Terrace Road, and parcels affected by the improvements as far west as South La Cadena Drive, as far east as Canal Street, as far north as Newport Avenue, and south of De Berry Street. The site is shown on the attached Plate 1. Site observations noted that the existing bridge carries one lane of traffic in each direction over I-215. Pictures of the interchange are presented as Plates 3 and 4.

The information presented in Table 1 describes the physical location of the subject study area. This information was obtained from maps, public records, and interviews (Appendix B).

**Table 1
Site Setting**

ADDRESSES	The subject site is located at the intersection of a roadway and an interstate highway. Multiple commercial and retail properties are located adjoining to the proposed improvement areas along De Berry Street, La Crosse Avenue, Commerce Way, Vivianda Avenue, Grand Terrace Road, and Barton Road. Parcels that may be affected by the proposed roadway improvements are provided below in the "Assessor's Parcel Number" section.
LOCATION	The vicinity of the interchange of Barton Road and Interstate 215; south of Vivianda Avenue and North of De Berry Street in the city of Grand Terrace, San Bernardino County, California.
TOWNSHIP & RANGE	Township 1 North, Range 1 East, San Bernardino Meridian.
ASSESSOR'S PARCEL NUMBERS	<p>According to information provided by LSA and available project drawings, the following parcels are those most likely to be affected by the subject project:</p> <p>0275-211-16-0000, 0275-211-17-0000, 0275-211-43-0000, 0275-211-44-0000, 0275-211-53-0000, 0275-212-04-0000, 0275-212-06-0000, 0275-212-09-0000, 0275-212-12-0000, 0275-212-13-0000, 0275-212-15-0000, 0275-212-16-0000, 0275-212-17-0000, 0275-212-18-0000, 0275-223-12-0000, 0275-223-16-0000, 0275-223-22-0000, 0275-223-25-0000, 0275-223-26-0000, 0275-223-27-0000, 0275-223-51-0000, 0275-223-58-0000, 0275-223-59-0000, 0275-223-60-0000, 0275-231-11-0000, 0275-231-12-0000, 0275-231-25-0000, 0275-231-28-0000, 0275-231-46-0000, 0275-231-47-0000, 0275-231-66-0000, 0275-231-68-0000, 0275-231-69-0000, 0275-232-05-0000, 0275-232-09-0000, 0275-232-10-0000, 0275-241-14-0000, 0275-241-24-0000, 0275-241-25-0000, 0275-242-01-0000, 0275-242-09-0000, 0275-242-10-0000, 0275-242-11-0000, 0275-242-12-0000, 0275-242-13-0000, 0275-242-15-0000, 0275-242-16-0000, 0275-242-17-0000, 0275-242-18-0000, 0275-242-19-0000, 0275-242-20-0000, 0275-242-21-0000, 0275-242-22-0000, 0275-242-23-0000, 0275-242-25-0000, 0275-251-54-0000, 0275-271-04-0000, 0275-271-05-0000, 0275-271-06-0000, 0275-271-07-0000, 0275-271-08-0000, 0275-271-09-0000, 0275-271-12-0000, 0275-271-13-0000, 0275-271-14-0000, 0275-271-15-0000, 0275-271-16-0000, 0275-271-17-0000, 0275-272-01-0000, 0275-272-15-0000, 0275-273-07-0000, 0275-273-08-0000, 0275-273-09-0000, 0275-273-10-0000, 1167-051-01-0000, 1167-051-03-0000, 1167-121-01-0000, 1167-121-02-0000, 1167-121-03-0000, 1167-121-04-0000, 1167-121-05-0000, 1167-121-06-0000, 1167-121-08-0000, 1167-121-09-0000, 1167-121-10-0000, 1167-121-11-0000, 1167-131-01-0000, 1167-131-02-0000, 1167-131-05-0000, 1167-131-06-0000, 1167-131-12-0000, 1167-131-13-0000, 1167-141-02-0000, 1167-141-03-0000, 1167-141-04-0000, 1167-141-05-0000, 1167-141-08-0000, 1167-141-09-0000, 1167-141-10-0000, 1167-141-11-0000, 1167-151-01-0000, 1167-151-03-0000, 1167-151-04-0000, 1167-151-06-0000, 1167-151-07-0000, 1167-151-08-0000, 1167-151-09-0000, 1167-151-10-0000, 1167-151-17-0000, 1167-161-01-0000, 1167-161-02-0000, 1167-161-03-0000, 1167-161-05-0000, 1167-161-06-0000, 1167-161-19-0000, 1167-161-20-0000, 1167-231-03-0000, 1167-231-08-0000, 1167-231-09-0000, 1167-231-10-0000, 1167-231-11-0000, 1167-231-12-0000, 1167-231-13-0000.</p>

**Table 1 (Continued)
Site Setting**

LEGAL DESCRIPTION	Due to the number of parcels and uncertainties surrounding how the project boundaries overlay the parcels, Kleinfelder has not provided legal descriptions of the parcels.
ZONING	According to the county of San Bernardino Assessor's Office, the affected study area is mainly zoned commercial, with residential, industrial, and some public land use areas.
ADJACENT LAND USE	Land use adjacent to the affected study area (as depicted in the Site plan) ranges from residential neighborhoods to commercial/industrial buildings. Many of the adjacent parcels are vacant lots at this time.

Table 2 presents information about the physical setting and regional geology of the study area. This information was obtained from published maps.

**Table 2
Physical Setting**

USGS TOPOGRAPHIC QUADRANGLE	San Bernardino South, California Quadrangle, 7.5 Minute Map, (1967, photo-revised 1980).	The subject site is located in the Grand Terrace area and is situated at approximate elevations ranging from 1,030 feet above MSL at the easternmost and northernmost ends to 920 feet above MSL at the northwesternmost and southernmost ends. The site slopes generally to the west to west-southwest.
REGIONAL GEOLOGY	Norris and Webb, Geology of California, 1990 Morton and Miller, Preliminary Geologic Map of the San Bernardino 30' x 60' Quadrangle, California, 2003	The project site is located within the Peninsular Ranges Geomorphic Province of California, a well-defined physiographic unit that extends from the Transverse Ranges and the Los Angeles Basin on the north to the Mexican border and into Baja California on the south. The province is characterized by northwest trending mountain ranges and valleys, and structural geologic blocks bounded by similarly oriented faults and fault systems. The site is underlain by very old alluvial fan deposits of middle to early Pleistocene age with some very young wash deposits of Holocene age.

**Table 2 (Continued)
Physical Setting**

OIL AND GAS FIELDS	State of California, Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Regional Wildcat Map W1-7, Counties: Riverside and San Diego, December 18, 2007	No oil or gas wells are depicted on the site.
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Information about groundwater information is presented on Table 3. This information was obtained from published data and maps, interviews with public agencies, and/or from previous investigations conducted by Kleinfelder in the vicinity of the site.

**Table 3
Groundwater and Surface Water**

<p>DEPTH TO REGIONAL GROUNDWATER (Sources: State Water Resources Control Board [SWRCB], Geotracker website http://geotracker.swrcb.ca.gov/ Western Municipal Water District [WMWD], 2008)</p>	<p>Based on information obtained from the SWRCB Geotracker website, groundwater was measured in groundwater monitoring wells at a former Shell Service Station located at 22045 Barton Road (within the site boundaries) at depths of approximately 165 feet below ground surface (bgs) during 2008.</p> <p>Additionally, Steve Mains with WMWD indicated that groundwater depth in the vicinity of the site is greater than 150 feet bgs.</p> <p>Fluctuations of the groundwater level, localized zones of perched water, and soil moisture content should be anticipated during and following the rainy season.</p>
<p>FLOOD PLAIN (Source: FEMA, Flood Insurance Rate Map, Map No. 06071C8687H, August 28, 2008)</p>	<p>Flood plain data reviewed for the area indicates that the study area lies outside the 0.2% chance annual floodplain boundary.</p>
<p>DIRECTION OF ANTICIPATED FLOW (Sources: SWRCB, Geotracker website http://geotracker.swrcb.ca.gov/; WMWD, 2008)</p>	<p>The estimated direction of groundwater flow is to the south-southwest, based on a Fourth Quarter 2008 Groundwater Monitoring and Remediation Status Report for the Former Shell Service Station located at 22045 Barton Road and prepared by Delta. Additionally, Steve Mains with the WMWD indicated that groundwater flow in the vicinity of the site is generally to the south.</p>

3.3 STANDARD ENVIRONMENTAL RECORD SOURCES

The purpose of the records review is to obtain and review records that would help evaluate environmental conditions of potential concern in connection with the subject site and bordering properties.

Federal, state and local regulatory agencies publish databases or "lists" of businesses and properties that handle hazardous materials or hazardous waste, or are the known location of a release of hazardous substances to soil and/or groundwater. These databases are available for review and/or purchase at the regulatory agencies, or the information may be obtained through a commercial database service. Kleinfelder contracted with a commercial database service, Environmental Data Resources (EDR), to review the regulatory agency lists for references to the site and any listings within the appropriate minimum search distance to the site. The EDR database search results are included in Appendix C, EDR DataMap™ Area Study, providing a description of the types of information contained in each of the databases reviewed and the agency responsible for compiling the data. The federal, state and local databases reviewed by EDR are listed in the Map Findings Summary section of the EDR DataMap™ Area Study report and key databases reviewed are summarized on Table 4.

**Table 4
Records Review-Search Distance**

FEDERAL	DISTANCE
National Priority List (NPL)	1-mile
CERCLIS-NFRAP (No Further Remedial Action Planned)	¼-mile
Resource Conservation Recovery Act (RCRA)-CORRACTS TSDF	0.5-mile
Comprehensive Environmental Response Compensation Liability Information System (CERCLIS)	¼-mile
RCRA-non CORRACTS TSD	¼-mile
RCRA-GEN/FINDS	Site & adjoining
Toxic Release Inventory System (TRIS)	Site & adjoining
ERNS	Site
STATE/LOCAL	DISTANCE
Cal-Sites, Bond Expenditure Plan (BEP), Annual Work Plan (AWP)	¼-mile
California Hazardous Materials Information System (CHMIRS)	Site & adjoining
DRY CLEANERS	¼-mile
CORTESE (formerly Hazardous Waste Substances), Notify 65	¼-mile
DEED	¼-mile
HAZNET	Site & adjoining
Leaking Underground Storage Tank (LUST)	¼-mile
SLIC (Spills, Leaks, Incidents, Complaints)	¼-mile
SWIS/SWAT/SWF/LF/WDS	¼-mile
UST, CaFID, HistUST, AST, San Bern Co., COL	Site & adjoining

FEDERAL LISTS

NPL National Priority List (NPL) sites are Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) sites that the US EPA has identified as having priority to address conditions believed to pose a threat to public health and/or the environment. No NPL or proposed NPL facilities are listed within the requisite search distance. In addition, Kleinfelder performed a search of EPA's Website (www.epa.gov) for Federal NPL listings within 1 mile of the site. No NPL facilities were listed within 1 mile of the site.

CERCLIS The CERCLIS list is a compilation of sites reported to the US EPA that have been investigated or are under investigation for a release or potential release of hazardous materials. No CERCLIS facilities are listed within the requisite search distance.

NFRAP As of February 1995, CERCLIS sites designated “No Further Remedial Action Planned” (NFRAP) have been removed from CERCLIS. NFRAP facilities may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration. No NFRAP facilities are listed within the requisite search distance.

RCRA-TSDF Resource Conservation and Recovery Information System (RCRIS) includes selective information on facilities which transport, store, treat, and/or dispose of hazardous waste (referred to as TSDF facilities) as defined by the Resource Conservation and Recovery Act (RCRA). No TSDF facilities are listed within the requisite search distance. In addition, Kleinfelder performed a search of EPA’s Website (www.epa.gov) for RCRA-TSDF listings within 0.5 mile of the site. No RCRA-TSDF facilities were listed within 0.5 mile of the site.

RCRA-GEN RCRIS also includes RCRA generator (GEN) listings that indicate hazardous wastes are generated on a facility’s premises as part of the company’s business practices. Two large quantity generator (LQG) sites (sites generating over 1,000 kilograms [kg] of hazardous waste) are listed, however, only one is listed within the requisite search distance (site and adjoining).

Vista Substation (EDR Map ID 4), located at 22200 Newport Avenue west of Newport Avenue and I-215, is adjacent to the northeastern side of the subject area. No violations were reported for this facility in the RCRA-LQG database. This address is also listed in the ERNS, FINDS, CA FID UST, HIST UST, SWEEPS UST, CHMIRS, HAZNET, EMI, and the AST databases. Based on the nature of the listings reviewed, and the lack of violations reported, it is Kleinfelder’s opinion that the Vista Substation listing in the RCRIS database should not negatively affect environmental conditions at the subject site.

Three facilities are listed on the RCRA small quantity generator (SQG) (facilities generating between 100 kg and 1,000 kg of hazardous waste) database, within the requisite search distance (site and adjoining).

Super Cleaners (EDR Map ID 18), located at 22310 Barton Road, adjacent to the eastern portion of the subject area. This address is also listed in the FINDS and HAZNET databases. Based on a review of the data provided in the listing and lack of reported violations, it is Kleinfelder's opinion that the Super Cleaners listing in the RCRIS database should not negatively affect environmental conditions at the subject site.

Stater Bros (EDR Map ID 24), located at 21700 Barton Road, adjacent to the western portion of the subject area. This address is also listed in the FINDS, CA WDS, Cortese, LUST (case closed), SWEEPS UST CHMIRS and HAZNET databases. Based on a review of data provided, lack of RCRIS violations, and closed LUST case, it is Kleinfelder's opinion that the Stater Bros listing in the RCRIS database should not negatively affect environmental conditions at the subject site.

Texaco Service Station (EDR Map ID 29), located at 22045 Barton Road, just east of the Barton Road/I-215 interchange (also listed as a Shell Station, Former Shell Station, Takourian Texaco, and Texaco). This address is also listed in the ERNS, FINDS, Cortese, LUST (case closed for Texaco, open as Former Shell), UST, HIST UST, SWEEPS UST, Notify 65, HAZNET, and EMI databases. This facility is further discussed in Sections 3.4.2 and 3.4.3.

ERNS

The Emergency Response Notification System (ERNS) listing is a compilation of reported spills of petroleum products or hazardous substances. Three sites are listed on the database, including Vista Substation (previously discussed), and one site outside of the requisite search distance.

Unknown (EDR Map ID 19), located at 22000 Barton Road, east of the Barton Road/I-215 Interchange. A malfunction in a turbine pump during September 1990 caused gasoline to spill into the I-215 ramp area. The release was cleaned up by the responsible party. Based on the completed clean up, the incident listed should not negatively impact the site.

HMIRS

The Hazardous Materials Incident Report System contains hazardous material spill incidents reported to the department of transportation. A review of this database has revealed one site within the search area.

Unknown (EDR Map ID 27), located at 22087 Barton Road, east of the Barton Road/I-215 Interchange. This address is also identified on the Cortese, LUST (open, site assessment), UST, HIST UST, and HAZNET databases, and is also listed under the names Qwik Stop ARCO, Qwik Stop #5, and Mobil Station #92. This site is currently permitted for USTs, and is listed under the LUST database as an open clean up case for soil only. A gasoline release of an unknown amount was discovered in October 1998. This facility is further described in Sections 3.4.2 and 3.4.3.

FINDS

The Facility Index System contains facility information and “pointers” to other sources of information that contain more detail. Some of these include: RCRIS, CERCLIS, TSCA, and others. A review of this database has revealed 10 facilities (plus two duplicate listings), 9 of which are within the search area, including Vista Substation, Grand Terrace, Super Cleaners, Stater Bros, and the Texaco Service Station (also listed as a Shell Station on the FINDS database). These facilities have been discussed previously. Additional facilities include the following.

In and Out Paint and Body Center (EDR Map ID 8), located at 11900 La Crosse Avenue, southwest of the Barton Road/I-215 Interchange, and is also listed as Sure-Way Paint & Body, Inc. (note the location of this facility was incorrectly plotted by EDR). This address is also listed in the HAZNET and EMI databases. The listings contained are primarily

for paint booth emissions and unspecified solvent wastes. It is Kleinfelder's opinion that the FINDS listing of the In and Out Paint and Body Center itself should not negatively affect environmental conditions at the subject site given that the facility is not within the area currently designated for current or partial takes.

Grand Terrace Elementary (EDR Map ID 13), located at 12066 Vivienda Avenue, northeast of the Barton Road/I-215 Interchange. This address is also listed in the HAZNET database. Based on the nature of the listing, it is Kleinfelder's opinion that the Grand Terrace Elementary listing in the FINDS database should not negatively affect environmental conditions at the subject site.

Auto Zone #5614 (EDR Map ID 28), located at 22125 Barton Road, east of the Barton Road/I-215 Interchange. This facility is also listed as Maly's of California, Inc, and includes a permitted listing with San Bernardino County, it is Kleinfelder's opinion that the Auto Zone #5614 listing as a used-oil collection center in the FINDS database should not negatively affect environmental conditions at the subject site.

The Gage Canal Company (EDR Map ID 35), located at 12224 Michigan Street, southeast of the Barton Road/I-215 Interchange. This address is also listed in the EMI database. The listing involves permitting of air emissions by the SCAQMD. Based on the nature of the listing and the lack of violations notes, it is Kleinfelder's opinion that the Gage Canal Company listing in the FINDS database should not negatively affect environmental conditions at the subject site.

STATE/ LOCAL LISTS

CA WDS

The California Water Resources Control Board lists sites that have been issued waste discharge requirements. Two sites were identified on the list within the search area, including Stater Bros. The Stater Bros facility was previously discussed under the RCRA-GEN database.

Wilden Pump and Engineering Comp (EDR Map ID 49), located at 22069 Barton Road, southeast of the site. This address is also listed on the RCRA-LQG, ERNS, FINDS, HIST UST, HAZNET, and EMI databases. Given the nature of the listing and the distance from the site, it is Kleinfelder's opinion that the Wilden Pump and Engineering Comp will not negatively affect environmental conditions at the site.

Cortese

Sites on this list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the State agency. Five facilities were identified on this database, including the Qwik Stop ARCO, Texaco Service Station, and Stater Bros, which have been previously discussed. The other two facilities are described below.

Unocal #4238 (EDR Map ID 15), located at 22483 Barton Road, east of the subject area. This address is also identified on the LUST (case closed), CA FID UST, HIST UST, SWEEPS UST, and HAZNET databases, and is also listed under the names Unocal 76 Stn # 4238, Station # 4238, Union Oil Service Station #423, and G&M Oil Co LLC #105. Additionally, the HAZNET database reports photochemical processing waste as waste type, but no disposal method is noted. The LUST case reported a spill of an unknown amount of gasoline from a piping overflow. The leak affected soil only, and the case was closed in June 1996. Given the distance from the site and the reported case closure, this facility is not expected to negatively impact environmental conditions at the site.

Grand Terrace Gas-Up (EDR Map ID 28), located at 22115 Barton Road, is located east of the intersection of Barton Road/I-215. This facility is also identified on the LUST (case closed), CA FID UST, HIST UST, SWEEPS UST, CHMIRS, and HAZNET databases, and is also listed under the names Grand Terrace Gas-Up #2603, and Inland Commercial Fueling. This facility is further discussed in Sections 3.4.2 and 3.4.3.

LUST The Leaking Underground Storage Tank (LUST) listing is the State of California's list of LUST locations. Five LUST facilities (plus two duplicate listings) are listed in the database, all within the requisite search distance. Three of these facilities are located within site boundaries (Qwik Stop ARCO, Grand Terrace Gas-up and Texaco Service Station [also listed on the LUST database as Former Shell Station]). The remaining two facilities are located east of the site. These sites include Stater Bros and Unocal #4238. These facilities have been discussed in previous sections.

UST/CA FID The California UST database is a list of registered underground storage tanks within California that has been commonly known as the SWEEPS Report. The Facility Inventory Database (CA FID) contains active and inactive UST locations. The source is the State Water Resources Control Board. Seven UST facilities are listed, with only three sites within the requisite search distance, including the Vista Substation and Grand Terrace Gas-Up, which have been discussed previously.

Bill Darwin (EDR Map ID 18), located at 22324 Barton Road, adjacent to the subject area, east of the intersection of Barton Road/ I-215. This facility is listed as inactive in the CA FID database, and listed as having one UST under the SWEEPS database. Given the information in the database and the facility being outside the area of potential acquisition, it is Kleinfelder's opinion that this listing should not negatively impact the site.

UST The UST database contains sites with registered underground storage tanks. The Qwik Stop (listed as Qwik Stop #5) and Texaco (listed as Takourian Texaco) are listed on this database. These facilities have been discussed previously.

HIST UST This State Water Resources Control Board database identifies historical registered USTs. Eight HIST UST facilities are listed within the requisite search distance, including Vista Substation, Stater Bros, Texaco Service Station, Qwik Stop (listed as Mobil Station #92), and Grand Terrace Gas-Up, which have previously been discussed.

Michael J. Crimer (EDR Map ID 11), located at 21850 Grand Terrace Road, located in the northwestern portion of the subject site. This facility is also listed as Ben Reynolds. This facility is listed as historically having one UST installed in 1973 that contained unleaded gasoline and designated for personal use. No violations were reported for this facility. This facility is not listed in the LUST database and is outside the area of potential acquisition; therefore, it is Kleinfelder's opinion that it is unlikely that the listing in the HIST UST database should negatively impact environmental conditions at the subject site.

Ruben Luna (EDR Map ID 21), located at 21801 Barton Road, located in the western portion of the subject site. This facility is also listed on the SWEEPS database (also as Casey, George/Ethyl Trust), permitted with San Bernardino County as a special generator/handler (A&E Charter), and Haulers database (listed as CB Tyres Recycling Resources). The site reports one 1,000-gallon domestic UST containing either regular or unleaded gasoline, with no release reported. Since there is no release reported, it is unlikely that the listing in the HIST UST database should negatively impact environmental conditions at the subject site; however, given that the facility is in the area of potential takes, additional information should be gathered to assess whether the UST is still in place, or that an unreported release has not occurred.

Stater Bros. Development Inc. (EDR Map ID 40), located at 375 De Berry Street, adjacent to the site. The site contains one diesel fuel tank, and given the lack of violations reported and the facility location outside the study area, it is Kleinfelder's opinion that it is unlikely that the listing in the HIST UST database should negatively impact environmental conditions at the subject site.

SWEEPS UST Statewide Environmental Evaluation and Planning System. This UST listing was updated and maintained by a company contacted by the SWRCB in the early 1990s, but it is not longer updated or maintained. Eight facilities are listed within the requisite search distance, including

Vista Substation, Bill Darwin, Ruben Luna, Stater Bros, Texaco Service Station, Qwik Stop (listed as Mobil Station #92), Grand Terrace Gas-Up, and Stater Bros. Development Inc. These facilities have been discussed previously.

CHMIRS The California Hazardous Material Incident Report System (CHMIRS) contains information on reported hazardous material incidents (i.e., accidental releases or spills). The source is the California Office of Emergency Services. Vista Substation, Stater Bros, and Grand Terrace Gas-Up are listed on the database and are within the requisite search distance. These facilities have been discussed previously.

AST The Aboveground Storage Tank database contains registers ASTs. Vista Substation is listed on the database within the requisite search distance, located adjacent to the subject site. This facility has been discussed previously.

NOTIFY 65 Notify 65 records contain facility notifications about releases that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database. The Texaco facility is listed within the requisite search distance, and is further discussed in Sections 3.4.2 and 3.4.3.

DRYCLEANERS This database contains information on the location of dry-cleaning facilities that have EPA ID numbers. The source for this list is the Department of Toxic Substances Control (DTSC). One DRYCLEANERS site is listed within the requisite search distance.

USA Cleaners (EDR Map ID 15), located at 22499 Barton Road, within the requisite search distance, east of the site. This facility is listed on the HAZNET database. It is listed as an inactive site. Given the distance of this facility to the site, it is not expected to negatively impact environmental conditions at the site.

HAZNET

This database is extracted from the copies of hazardous waste manifests received each year by DTSC. Fourteen facilities are listed on the HAZNET database within the requisite search distance, including Vista Substation, In and Out Paint Body Center, Super Cleaners, Stater Bros, Qwik Stop ARCO, Inland Commercial Fueling, Texaco, and Grand Terrace Elementary, which have been previously discussed.

Animal Emergency Clinic Inc (EDR Map ID 14), located at 12022 La Crosse Avenue, located northwest of the intersection of Barton Road/I-215. The facility status is listed as inactive, and materials associated with the site include photo processing waste. Given the inactive listing and the type of waste involved, it is Kleinfelder's opinion that this facility should not negatively impact the site.

Bank of the West (EDR Map ID 16), located at 2279 La Crosse Avenue. The facility is listed as a generator of unspecified oil-containing waste. Given the nature of this listing alone, this facility is not anticipated to negatively impact environmental conditions at the site.

City of Grand Terrace Redevelopment (EDR Map ID 18), located at 22293 Barton Road. The facility is listed as a generator of asbestos-containing waste. Given the nature of this listing alone, this facility is not anticipated to negatively impact environmental conditions at the site.

Accent Print & Design (EDR Map ID 21), located at 21800 Barton Road. The facility is listed as a generator of solvents and photochemical/processing waste. Given the nature of this listing alone, this facility is not anticipated to negatively impact environmental conditions at the site.

Clinical Lab of San Bernardino (EDR Map ID 22), located at 21881 Barton Road. The facility is listed as a generator of laboratory waste chemicals, surplus organics, acids and alkalis, and solvents. Given the nature of this listing alone, this facility is not anticipated to negatively impact environmental conditions at the site.

A-1 Cleaners (EDR Map ID 22), located at 21900 Barton Road #130, west of the Barton Road/ I-215 interchange, and on Site. The facility is listed as a generator of halogenated compounds. Given the nature of this listing, insufficient records available for review, and potential for subsurface impacts, Kleinfelder recommends further investigation (including potential subsurface investigation) prior to the advancement of improvement activities.

Jacobson FH 2 (EDR Map ID 26), located at 22193 Barton Road. The facility is listed as a generator of asbestos-containing waste. Given the nature of this listing alone, this facility is not anticipated to negatively impact environmental conditions at the site.

CDL

A listing of drug lab locations. Does not indicate that illegal drug lab materials were or were not present, and does not constitute that the location does or does not require additional cleanup work. Four CDL sites are listed within the search area, and one site is listed within the site boundaries.

Not Reported (EDR Map ID 2), located at 22111 Newport Street, in the northern portion of the site. This site was the location of an illegal drug lab, where illegal drug lab equipment and chemicals/materials were stored. Given the nature of this listing, it is not likely to have negatively impacted environmental conditions at the site.

EMI

Toxic and criteria pollutant emissions data collected by the ARB and local air pollution agencies. Six facilities are listed on the EMI database, with three of them located within or adjacent to the site boundaries, including the Vista Substation, In and Out Paint and Body Center (also listed on database as Sure-Way Paint and Body Inc.), and the Gage Canal Company. These facilities have been discussed previously.

San Bern Co.

The San Bernardino County Fire Department Hazardous Materials Division maintains a database of permitted facilities. 41 facilities were located within the search area, with 23 addresses located on or

adjacent to the subject site. Based on a review of the listings, these facilities have either been previously discussed or are not anticipated to negatively impact environmental conditions at the site.

3.4 ADDITIONAL AGENCY ENVIRONMENTAL RECORDS

Local regulatory agencies were contacted for reasonably ascertainable and practically reviewable documentation regarding environmental conditions present at the subject site and adjacent facilities.

The following agencies were contacted for documentation:

- South Coast Air Quality Management District (SCAQMD)
- San Bernardino County Fire Department – Hazardous Materials Division
- State of California, Regional Water Quality Control Board Santa Ana Region
- State of California, Office of the State Fire Marshal, Pipeline Safety Division
- San Bernardino County Assessors Office, Building and Permitting Department

3.4.1 South Coast Air Quality Management District

Kleinfelder reviewed the SCAQMD website for information regarding permits, equipment type, and notice of violation (NOV) files for facilities located within the subject site and facilities adjoining the subject site. Eleven facilities within the subject site area and facilities adjoining were identified as having permits listed under the SCAQMD. Only one of the eleven facilities permitted had an NOV.

22087 Barton Road, ARCO

- Permit to serve, store, and dispense gasoline, (Permit No. N22209, N16390, N7944, and N01889, issued August 20, 2008, March 10, 2005, November 5, 1999, and November 18, 1994, respectively). Permit issued August 20, 2008 is the only permit active at this time. An NOV was issued on August 23, 1993, February 23, 1996, March 24, 1998, September 30, 2005, and December 6, 2005. All cases are closed at this time.

Copies of the permit lists, equipment lists, and pertaining NOVs are included in Appendix B.

3.4.2 San Bernardino County Fire Department, Hazardous Materials Division

Kleinfelder sent a fax letter to the San Bernardino County Fire Department, Hazardous Materials Division (SBCFD-HAZMAT) on February 2, 2009, for information regarding site mitigation, hazardous materials, hazardous waste, inspection, enforcement/investigation, and emergency response files associated with the above-mentioned adjoining properties. The following table (Table 5) summarizes 19 commercial properties identified in the records search associated with the site. A complete list of records as provided by the SBCFD-HAZMAT is provided in Appendix B.

**Table 5
Records Review - SBCFD-HAZMAT**

Facility Location (Name)	Permits					Additional Info	Env Concer n
	HMH	HW G	IHW G	US T	A/I		
21881 Barton Road (Clinical Lab of San Bernardino)	yes	yes	n/a	n/a	A		No
22045 Barton Road (Grand Terrace Marketplace)	yes	n/a	n/a	yes	A		Yes
22087 Barton Road (Quick Stop #5)	yes	yes	n/a	yes	A	On-going remediation case	Yes
22115 Barton Road (GT Pitstop Auto Sports)	yes	yes	n/a	n/a	A		No
22125 Barton Road (Autozone)	yes	yes	n/a	n/a	A	previous used oil collection center status	No
22060 Commerce Way (Superior Pool Prod LLC)	yes	n/a	n/a	n/a	A		No
22080 Commerce Way (California Skate Grand Terrace)	yes	n/a	yes	n/a	A	special category (recycle/resuse)	No
2233 La Crosse (Orkin Pest Control)	yes	n/a	n/a	n/a	A		Yes
12190 La Crosse (In & Out Paint & Body)	yes	yes	n/a	n/a	A		No
22125 Barton Road (Maly's of California Inc)	yes	yes	n/a	n/a	I		No
21800 Barton Road, Suite 102 (CM Motorsports)	n/a	yes	n/a	n/a	I	out of business	No
21900 Barton Road (A-1 Cleaner)	yes	yes	n/a	n/a	I	destroyed in fire	Yes
22045 Barton Road (Grand Terrace Shell)	yes	n/a	n/a	yes	I	USTs removed, on-going remediation case	Yes

**Table 5 (Continued)
Records Review - SBCFD-HAZMAT**

Facility Location (Name)	Permits					Additional Info	Env Concer n
	HMH	HW G	IHW G	US T	A/I		
22045 Barton Road (Texaco Refining/Mrktg INC)	yes	yes	n/a	n/a	I	Closed, remediation case closed 9/17/96	Yes
22115 Barton Road (Grand Terrace Gas-Up #2603)	yes	n/a	n/a	yes	I	USTs removed, remediation case closed 3/15/00	Yes
22115 Barton Road (Jerry's Auto Service)	n/a	yes	n/a	n/a	I	special categories (recycle/resuse)	Yes
2185 La Crosse (Air Liquid America Corp)	yes	n/a	n/a	n/a	I	out of business	No
2273 La Crosse (Engineering Service Corp)	n/a	n/a	n/a	n/a	I	Inactive non-Handler, non-Generator (1984-1992)	No
21800 Barton Road (Carpet Pad Sales Co)	yes	yes	n/a	n/a	I	Inactive non-Handler, non-Generator (1984-1992)	No

Notes: HMH – Hazardous Materials Handler, HWG – Hazardous Waste Generator, IHWG – Inactive Hazardous Waste Generator, A – Active, and I – Inactive.

Three HAZ MAT incident and or complaints were made for the following facilities associated with the site :

12190 La Crosse (In & Out Paint & Body)

- 9/06/00 - Complaint was made regarding paint job done outside, poorly (excerpt)

21800 Barton Road

- 9/12/02 - HAZMAT reponse requested by California Highway Patrol (CHP) on diesel release from tractor trailer mailing a delivery to Stater Bros warehouse. Clean up was completed that afternoon. No waterways were involved and no soil remediation was required. Release amount was reported to be 125 gallons.

22087 Barton Road (Qwik Stop #5)

- 4/22/03 – Complaint was made regarding unlabeled drums along side of the property.

Based on a review of information provided by the SBCFD, the following facilities may represent an environmental concern to the site:

- 22045 Barton Road (Grand Terrace Marketplace, Grand Terrace Shell, Texaco) – Active UST case (see Section 3.4.3)
- 2233 La Crosse Avenue (Orkin Pest Control) – Potential pesticides (no access to facility)
- 21900 Barton Road (A-1 Cleaner) – Potential residual solvents (no access to facility)
- 22115 Barton Road (Grand Terrace Gas-Up, Jerry's Auto Service) – Potential residual hydrocarbons.

The SBCFD reported 19 additional facilities with records located in the vicinity of the site ; however, these sites were located outside of the search area. A complete list of these facilities is presented in Appendix B.

3.4.3 Santa Ana Regional Water Quality Control Board

Addresses were searched for records on non-residential parcels affected by the site improvements. A total of 52 parcels were searched, and records were found on three addresses. Files were reviewed at SARWQCB on February 4, 2009. The information reviewed in the files is summarized below, and copies can be found in Appendix B.

22045 Barton Road, Former Shell/Texaco Service Station

- May 14, 2007 – Confirmation of Verbal Approval of Groundwater Sampling Reduction (Delta Environmental Consultants)
 - During a verbal conversation on April 20, 2007 between Delta and SBCFD, current groundwater data was reviewed and it was determined that sampling be reduced to semi-annually.
- April 6, 2007 – First Quarter 2007 Groundwater Monitoring Report (Delta Environmental Consultants)
 - Groundwater gradient was to the south-southwest at approximately 0.011 foot per foot.
 - Hydrocarbon distribution in groundwater was not mapped due to concentrations below detection limits noted.

- January 19, 2007 – Feasibility Study and Remedial Action Plan (Delta Environmental Consultants)
 - Remedial Action Plan (RAP) for vadose zone remediation based on results of Soil Vapor Extraction (SVE) Well Installation and Pilot Test Report, dated November 17, 2006. Proposed to initiate SVE system based on the results of the pilot test.

Based on the review of this file, it is Kleinfelder's opinion that this facility has negatively impacted environmental conditions at the subject site.

22087 Barton Road, Qwik Stop #5

- April 18, 2007 – Requirement to Commence Soil Remediation and Quarterly Reporting Requirements (San Bernardino County Fire Department)
 - Requires that the remedial action plan proposed September 14, 2005 by Artmn Inc. for dual-phase extraction be implemented by June 18, 2007.

Based on the review of this file, it is Kleinfelder's opinion that this facility has negatively impacted environmental conditions at the subject site.

22115 Barton Road, Grand Terrace Gas-Up #2603

- March 15, 2000 – Underground Storage Tank (UST) Case Closure (San Bernardino County Fire Department)
 - Letter of confirmation of completion of site investigation and corrective action.

Based on the review of this file, it is Kleinfelder's opinion that although case closure has been granted, potential residual hydrocarbons present in soils at this facility may negatively impact environmental conditions at the subject site, given future construction activities and parcel acquisition.

3.4.4 State of California, Fire Marshal, Pipeline Safety Division

Kleinfelder submitted a request to the Pipeline Safety Division of the Office of the State Fire Marshal (OSFM) for information regarding gas pipelines that transport hazardous substances within the vicinity of the study area. According to an e-mail response from Ms. Kathy Battles, there are no pipelines jurisdictional to the OSFM in the vicinity of the subject site (OSFM, 2009). A copy of this letter is presented in Appendix B.

3.4.5 San Bernardino County Office of the Assessors, Building and Permitting Department

Kleinfelder contacted the San Bernardino County Office of the Assessors, which retains records for the cities of Grand Terrace and Colton Building and Permitting Departments, to conduct a search of records they might hold for the commercial properties associated with the site. A representative from the Assessors office, Mr. John Courtright, contacted Kleinfelder on February 6, 2009, regarding search criteria. Mr. Courtright provided that a search for records of this type required either authorization by each individual property owner to review matters pertaining to their assessment, or, authorization and proof from an agent for a government entity that has statutory authority to access the records. Kleinfelder contacted SANBAG on March 9, 2009 regarding the acquisition of authorization to perform a search of records. On April 7, 2009, an email response provided to Kleinfelder by SANBAG informed Kleinfelder that SANBAG was unable to grant authorization to perform a search due to the Revenue and Taxation Code section 408, which limits disclosure of information in Assessor's records.

3.5 ADDITIONAL AGENCY ENVIRONMENTAL RECORDS

The history of the site was reviewed to supplement regulatory agency database records previously discussed. Table 6 summarizes the availability of information requested for review during this assessment.

**Table 6
Historical Sources**

Source	Years reviewed	Availability
AERIAL PHOTOGRAPHS	1930, 1938, 1953, 1966, 1977, 1989, 1995, 2002	EDR, Inc.
SANBORN FIRE INSURANCE MAPS	Not Available	Not Available
HISTORICAL TOPOGRAPHIC MAP REPORT	1901, 1954, 1967, 1973, 1980	EDR, Inc.

3.5.1 Aerial Photography

Historical aerial photographs were reviewed to evaluate past land use at the site and in the surrounding area. Aerial photographs spanning a period of 72 years were available during the time frame of this report. Copies of aerial photographs are presented in Appendix C. The summary of aerial photograph review is presented, as follows:

**Table 7
Aerial Photographs**

Date	Photo ID	Scale	Type	Source	Quality
1930	2403170.2	1 inch = 666 feet	Black and White Monoscopic	Fairchild	Fair
1938	2403170.2	1 inch = 555 feet	Black and White Monoscopic	Laval	Good
1953	2403170.2	1 inch = 555 feet	Black and White Monoscopic	Southwestern	Good
1966	2403170.2	1 inch = 666 feet	Black and White Monoscopic	Universe	Good
1977	2403170.2	1 inch = 666 feet	Black and White Monoscopic	Teledyne	Good
1989	2403170.2	1 inch = 666 feet	Black and White Monoscopic	USGS	Fair
1995	2403170.2	1 inch = 666 feet	Black and White Monoscopic	USGS	Good
2002	2403170.2	1 inch = 666 feet	Black and White Monoscopic	USGS	Good

Based on a review of historical aerial photographs, orchards, agricultural fields and related farm/residential structures occupied the site from 1930 through at least 1966. Roads in the location of Barton Road, DeBerry Street, Vivienda Avenue, Michigan Avenue, Newport Avenue, Canal Street, and La Cadena Drive were visible on the aerial photos from at least 1930. The Topeka and Santa Fe Rail Road tracks and the Southern Pacific Rail Road tracks were visible in the photos as early as 1930. Construction was visible at the location of the Vista Substation as early as 1953. The current I-215 alignment was visible from at least 1966. Structures located on parcels occupied by service stations noted in Sections 3.3 and 3.4 were visible in the 1966 aerial photograph, as was Grand Terrace Elementary School. General residential and commercial development of the area expanded between 1966 and 1989, with lesser growth continuing throughout 2002. Based on the historical agricultural use of the area, persistent pesticides may remain. Additionally, the potential exists for buried asbestos containing cementitious pipe (“transite”) to be present within the study area, which were commonly used for water transportation as part of historical agricultural practices.

3.5.2 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps provide historical land use information for some metropolitan and small, established towns. Kleinfelder, Inc. requested a search of Sanborn Fire Insurance Maps by EDR. Sanborn Fire Insurance Maps were not available for the subject site (Appendix C).

3.5.3 Historical Topographic Map Review

Historical topographic maps (7.5-, 15-, and 60-Minute Series) from EDR, Inc. were provided for Kleinfelder’s review. Copies are provided in Appendix C. In summary:

- **1901** (San Bernardino, 15-Minute, 60-Minute Series): The Barton Road/I-215 Interchange is not depicted on the 1901 topographic map. The area appears to be largely undeveloped land with some agricultural area, with few developed roads near the present location of the intersection. Various rail roads (Southern California Rail Road San Bernardino and San Diego Line and Southern Pacific Rail Road Riverside Motor) are depicted in the vicinity, and the Santa Ana River and Gage Canal are depicted running south-southwest in the vicinity of modern day I-215.

- 1954** (San Bernardino, 15-Minute, 7.5-Minute Series): The 1954 topographic maps continue not to depict the Barton Road/I-215 Interchange. Barton Road is depicted on the map, as are DeBerry Street, Michigan Avenue, Canal Street, Vivienda Avenue, and Newport Avenue. A road depicted running along the Atchinson Topeka and Sante Fe Railroad (formerly Southern California Rail Road) in the vicinity of current day La Cadena Drive, appears to head in a southwest to northeast direction west of the site. Three structures were depicted in the vicinity of the current Vista Substation, adjacent to power transmission lines. Union School is depicted at the location of the current Grand Terrace Elementary School. The area around the site continues to be sparsely developed agricultural and orchard land with very few developed roads.
- 1967-1980** (San Bernardino South, 7.5-Minute Series): Interstate 215 is depicted on the 1967 topographic map, and the Barton Road/ I-215 Interchange is also visible. More significant development is occurring in the vicinity of Grand Terrace, including several trailer parks and Stater Bros distribution center west of I-215. Development increases and agricultural use decreases significantly through the 1980 topographic map.

3.5.4 City Directory

City directories provide information regarding property occupants by address. These directories were available for the site from 1976 through 2007. A Kleinfelder representative searched for San Bernardino County, California for the following years in the Haine’s directory: 2007, 2005, 2003, 2000, 1995, 1989, 1981, 1979, and 1977. Table 8 below summarizes the available information reviewed during this assessment of sites that could potentially produce environmental concerns to the site, based on the name of the business.

**Table 8
Records Review – City Directory**

Facility Name	Address	Cross Street	Years Listed	Additional Information/Previous Associations	Env Concern
CM Motor Sports	21800 Barton Rd.	La Cadena	2000-2007	Not listed in 1995 or prior.	No
Magnum Diesel Parts	21800 Barton Rd	La Cadena	2005-2007		No
CB Tyres Recycling	21801 Barton Rd	La Cadena	2000-2005	Not listed in 1995 or prior.	Yes

**Table 8 (Continued)
Records Review – City Directory**

Facility Name	Address	Cross Street	Years Listed	Additional Information/Previous Associations	Env Concern
Huston and Harris Pipe Cleaning	21831 Barton Rd	La Cadena	2000-2007	Address was listed as Tilley Robt in 1995.	No
American Brake Supply	21800 Barton Rd	La Cadena	1989 to 1995		No
A-1 Cleaners	21900 Barton Rd.	Grand Terrace	1995-2007	Not listed in 1989 or prior.	Yes
GT Pit Stop	22115 Barton Rd.	Michigan	2000-2005	Address listed as Jerry's Auto Service in 1995 1989, Grand Terrace Gas-up in 1981, and Grand Terrace Gulf in 1977.	Yes
Super Cleaners	22310 Barton Rd.	Canal	2000-2007	Not listed in 1995 or prior.	No
M&M Cleaners	22400 Barton Rd.	Canal	2000-2003	Not listed in 1995 or prior.	No
Grand Terrace Cleaners	22471 Barton Rd.	Mount Vernon	1995	Address not listed prior or after this date.	No
USA Cleaners	22499 Barton Rd.	Mount Vernon	2002-2007	Address listed as Dollar & Discount Store in 1995.	No
Texaco	22045 Barton Rd.	La Cross	1977-2005		Yes
Milestone Motors	22533 Barton Rd.	La Cross	2003-2007	Address listed as a real estate agency in 1995.	No
Lasita Cleaners	22813 Barton Rd.	Palm	1989-2005	Address not listed in 1981 or prior.	No
ARCO	22087 Barton Rd.	Palm	2003	This address listed under EX Serve of California in 1989-1995, Ca Tex Petroleum in 1981, and listed as White Jaines Oil & Company in 1977.	Yes
Blue Mountain Collision Center	11900 La Cross	Barton Road	2003-2007		No
In and Out Paint Body	11900 La Cross	Barton Road	1989-2007	Property is listed as RMG Tools in 1981 and Anheuser Busch Inc. in 1977.	No

**Table 8 (Continued)
Records Review – City Directory**

Facility Name	Address	Cross Street	Years Listed	Additional Information/Previous Associations	Env Concern
Blue Mountain Collision Center	11900 La Cross	Barton Road	2003-2007		No
Concrete Construction	12345 Michigan	DeBerry St.	2003-2007		No
MRD Fuel Injections	12210 Michigan	Barton Road	1995	Property listed as Petroleum Equipment Services in 1989 and not listed in 1981.	No
Grand Terrace Cleaners	22471 Barton Rd.	None Listed	1995		No
Terrace Launderland	22489 Barton Rd.	None Listed	1989		No
Deluxe Cleaners	22497 Barton Rd.	None Listed	1989		No
Jerry's Union Station	22483 Barton Rd.	None Listed	1981-1989		No
Grand Terrace Auto	22533 Barton Rd.	None Listed	1977		No
Grand Terrace Cleaners	22833 Barton Rd.	None Listed	1977		No
Shell Station	22675 Barton Rd.	None Listed	1977-1979		No
Honey Hills Cleaners	22497 Barton Rd.	None Listed	1979		No
GT Cleaners	22545	None Listed	1979		No
Automotive FBR Generator	21823 Barton Rd.	None Listed	1979		Possible
Pas Tex Plastics	21825 Barton Rd.	None Listed	1979		Possible

Potential environmental concerns associated with GT Pit Stop (22115 Barton Road – also known as Inland Commercial Fueling and Grand Terrace Gas-Up), Texaco (Shell – 22045 Barton Road), and ARCO (Qwik Stop or Mobil Station – 22087 Barton Road) were previously discussed in Sections 3.3 and 3.4. The CB Tyres Recycling facility (21801 Barton Road) was discussed in Section 3.3 under Ruben Luna as an environmental concern based on the potential presence of a domestic UST and possible residual hydrocarbons associated with the tank. The A-1 Cleaners facility (21900 Barton Road) was reportedly destroyed by fire (Section 3.4); however, given the facility is in the area of potential acquisition, further assessment of that facility for residual halogenated compounds is recommended. Sufficient information has not been obtained regarding operations at Automotive FBR Generator (21823 Barton Road) or Pas Tex Plastics (21825 Barton Road) due to the age of the listing and inability to access current facilities; however, further assessment should be made at these addresses based on areas of potential acquisition.

4.0 VISUAL SURVEY

4.1 METHODOLOGY AND LIMITING CONDITIONS

A representative from Kleinfelder, Alexis McCollom, conducted a site reconnaissance on March 6, 2009 to assess and photograph present site conditions. The approximate site location is presented on the Site Vicinity Map (Plate 1). Site boundaries of the study area and proposed site improvements are shown on Plate 2. Color photographs of the site are also presented as Plates 3 through 11. The site conditions discussed below are limited to readily apparent environmental conditions observed from the roadway, since individual parcel access was not granted.

At the intersection of Barton Road and I-215, I-215 has three lanes in both the northwest and southeast directions separated by a median. Barton Road currently exists as a two-lane road in the east and west directions, crossing over I-215, south of Washington Street. The proposed Barton Road/I-215 Interchange Improvement Project involves the improvement of a southbound loop on ramp, providing three lanes at Barton Road. The southbound off ramp would make a new connection at Barton Road with one right turn lane and two left turn lanes, and La Crosse Avenue north of Barton Road would be removed. The northbound off ramp would tie in to Commerce Way and provide a dual left turn lane and a single right turn lane, while a new northbound hook on ramp would be provided in the south-east quadrant. The access to the ramp will be through the proposed extension of Commerce Way. To accommodate these improvements, Commerce Way will be reconfigured to intersect with Barton Road at Vivienda Avenue, as well as shift to the east. Additionally, Commerce Way southeast of Barton Road will cross Michigan Avenue, in the vicinity of DeBerry Street. Barton Road will be widened to six lanes between Union Pacific Rail Road (UPRR) and Canal Street, and the existing overcrossing would be replaced with a new seven-lane structure.

The subject site is currently developed with public right-of-ways (Barton Road and other affected roadways, and access ramps for Interstate 215). Gasoline service stations (Shell and ARCO) are currently located on properties on eastbound Barton Road at the south side of the street (southeast intersection of Barton Road/ I-215). Drums were

observed on the ARCO property associated with the remedial compound found at the southwest corner of the facility. The ARCO station also made use of a vehicle service bay. The Shell station had an operating drive through carwash on site. A small property with a strip of commercial shops including a carpet/flooring store and a medical supply store is located between the two gasoline service stations. An elementary school is located on a property on eastern portion of Barton Road at the north side of the street (northeast intersection of Barton Road/ I-215). The I-215 northbound onramp is also located at this intersection. Another commercial strip mall is located off of the western portion of Barton Road at La Cross Avenue (northwest intersection of Barton Road/I-215), which contained various commercial stores, including a hair salon. An unoccupied building stands on the parcel located at the intersection of western Barton Road and La Cross Avenue (on the southwest intersection of Barton Road/ I-215). The I-215 southbound onramp is also located at this intersection.

The southeast and east portions of the subject site are largely occupied by various commercial properties, with some residential properties. DeBerry Street, located in the southeastern portion of the site, is largely a residential street, with a commercial recreational vehicle (R.V.) storage facility located on its southern side. A concrete lined drainage channel (Gage Canal) was observed from DeBerry Street, running parallel the I-215. Several commercial properties were observed on Commerce Way in the southeastern portion of the site. Drums were observed at a wholesale plumbing supply store (located at 22070 Commerce Way), along with a pad-mounted transformer. The drums were stacked on their side and appeared to be empty. No concrete or soil staining was observed near either the drums or the transformer. Pictures of the drums and transformer are presented as Plate 8. Since there was no access to the property (behind locked gates), if further inspection of the contents and condition of the drums is required, further investigation can be performed upon receipt of access to this property (prior to completion of the PA&ED). A wholesale electrical warehouse was observed located at 22075 Commerce Way. The warehouse had a loading bay/ service dock area. Several pad-mounted transformers, as well as several pole-mounted transformers, were observed in the southeastern and eastern portion of the site. No staining was observed near the transformers. High voltage power lines were observed in the vicinity of the site. Sewer and storm drains were also observed.

On the west side of the freeway, the western and southwestern portion of the site was observed to be largely commercial properties. Most of the properties were fenced off

from access. Several of the commercial buildings/facilities were observed to have delivery bays/ loading docks. Grand Terrace Road was closed due to construction activities at the time of the site visit, so observations were unable to be made in its vicinity. Northwest of the site, Southern California Edison maintains a sub-station. Several pad-mounted transformers, as well as several pole-mounted transformers, were observed in the southeastern and eastern portion of the site. No staining was observed near the transformers. Sewer and Storm Drains were also observed.

With the exception of the potential for aurally deposited lead and lead chromate in the yellow traffic markings; Kleinfelder did not observe discolored soil or water, stressed vegetation, hazardous materials, ASTs, pits, ponds, or lagoons during the site reconnaissance. However, several facilities (e.g. gasoline service stations and automotive repair facilities) have the potential to release chemicals the can impact the subject site. Pictures taken of the site during site reconnaissance are presented as Plates 3 through 11.

Site observations are further described in Table 9.

**Table 9
Site Observations**

General Observations	Remarks	Observed	Not Observed
Current Use	The subject site is currently developed with public right-of-ways (Barton Road and other affected roadways, and access ramps for Interstate 215). Two gasoline service stations and a service bay are located on the site. Several commercial properties exist on both the eastern and western portions of the site. Many residential properties are also located on and adjoining the site. An elementary school exists at the northeastern intersection of the Barton Road/I-215 Interchange.	X	
Past Use	Based on review of historical aerial photographs (Section 3.5.1) the parcels surrounding the subject site were predominately used for agricultural purposes from as early as 1930 through the 1966. By the 1989 aerial photograph, more commercial structures and residential neighborhoods were visible in the vicinity of the subject site.		X
Structures	Based on review of the proposed interchange modification, it appears that several structures may be affected by the proposed development. The remaining structures appear to be on adjoining properties. A site map depicting the area of potential effects is included as Plate 2.	X	
Terrain	Relatively flat.	X	

**Table 9 (Continued)
Site Observations**

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		Observed	Not Observed
Aboveground storage tank (AST)			X
Air emissions	No structures with air emissions were noted, although cars were observed. Facilities with existing permits with SCAQMD are listed in Section 3.4.1.		X
Asbestos and lead	<p>The study area has a history of land use for agricultural purposes. The potential exists for buried asbestos containing cementitious pipe ("Transite") to be present within the study area. Transite pipe(s) were commonly used for water transportation as part of historical agricultural practices.</p> <p>Elevated concentrations of lead and other metals are sometimes associated with older roadways.</p> <p>Yellow traffic markings were observed along the roadway and may potentially contain hazardous levels of lead chromate.</p>	<p>X</p> <p>X</p> <p>X</p>	
Below grade vaults			X
Burned or buried debris			X
Chemical storage or agricultural chemical mixing areas	None observed, although several commercial facilities which may have storage were observed. These sites were not accessible.		X
Discolored soil or water			X
Drains and piping	Multiple storm drains were observed. Irrigation piping was also observed in the landscaping adjacent to Interstate 215.	X	

**Table 9 (Continued)
Site Observations**

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		Observed	Not Observed
Drums	Drums were observed on site at the ARCO station on Barton Road, as well as at a commercial property on Commerce Way. Soil or concrete staining was not observed.	X	
Electrical equipment (PCBs)	Multiple pad-mounted transformers and pole-mounted transformers were observed on commercial properties and along roadways. The transformers appeared to be in good condition, with no visible leaks and no soil staining.	X	
Farm waste (e.g. feed lot spoils or manure stockpiles)			X
Fill dirt from an unknown source.			X
Hazardous chemical and petroleum products in connection with known use.	At least two gasoline service stations and an auto service bay (ARCO and Shell) were observed on site, with additional related facilities with the potential for petroleum use adjacent to site.	X	
Hazardous Waste Storage			X
Heating and Cooling System			X
Industrial waste treatment equipment			X
Leachate or seeps			X
Loading and unloading areas	Several loading docks/service bays were observed at several commercial properties.	X	
Odors			X
Pesticide storage areas/areas of prolonged use or misapplication			X
Pits, Ponds, or Lagoons			X

**Table 9 (Continued)
Site Observations**

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		Observed	Not Observed
Pools of Liquid			X
Process waste water			X
Railroad spurs	Railroad tracks adjoin the site to the west; however, railroad spurs were not observed due to access issues.		X
Raw material storage or chemical storage areas			X
Sanitary System (Sewer)	Observed in streets.	X	
Septic system (Tank and leach fields)			X
Soil piles			X
Solid Waste	Small amounts of debris (paper wrappers and glass/plastic bottles) were along the roadside drainages throughout the subject study area.	X	
Stained pavement or concrete			X
Stains or corrosion (interior)			X
Storm basins/catch	Storm drain channel observed on site.	X	
Storm drains	See "Drains and piping."	X	
Stressed vegetation			X
Sumps & clarifiers			X
Surface impoundments or holding ponds			X
Surface water	Small amount of water observed in storm channel (Gage Canal).	X	
Underground storage tanks	Several active gasoline stations observed on site.	X	

**Table 9 (Continued)
Site Observations**

Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.		Observed	Not Observed
Unidentified substance containers			X
Waste Water			X
Water supplies (potable and process)	Irrigation in the landscaping areas adjoining to Interstate 215 and the existing overpass.	X	
Wells (irrigation, monitoring, or domestic) or cisterns			X
Wells (dry)			X
Wells (Oil and Gas)*			X

5.0 EVALUATION

Kleinfelder performed this ISA of the subject site consistent with Caltrans' Initial Site Assessment (ISA) Checklist for Hazardous Waste (Appendix DD, Hazardous Waste, Project Development Procedures Manual, 7/1/99). The completed Initial Site Assessment Checklist consistent with Caltrans' Guidelines included as Appendix A. The following section describes Kleinfelder's findings and presents our recommendations regarding potential hazardous waste involvement in the proposed project.

5.1 FINDINGS

The proposed project would reconstruct the existing I-215/Barton Road Interchange consistent with the Circulation Element of the City of Grand Terrace General Plan and would accommodate projected traffic volumes through 2035. The project proposes to realign the freeway on ramps and off ramps, as well as realign Barton Road, La Crosse Avenue, Commerce Way, and Grand Terrace. It also involves the widening of Barton Road over the freeway. The existing six-lane I-215 and Barton Road overcrossing will be improved, utilizing a southbound loop on ramp, providing three lanes at Barton Road. The southbound off ramp would make a new connection at Barton Road with one right turn lane and two left turn lanes, and La Crosse Avenue north of Barton Road would be removed. The northbound off ramp would tie in to Commerce Way and provide a dual left turn lane and a single right turn lane, while a new northbound hook on ramp would be provided in the south-east quadrant. The access to the ramp will be through the proposed extension of Commerce Way. To accommodate these improvements, Commerce Way will be reconfigured to intersect with Barton Road at Vivienda Avenue, as well as shift to the east. Additionally, Commerce Way southeast of Barton Road will cross Michigan Avenue, in the vicinity of DeBerry Street. Barton Road will be widened to six lanes between UPRR and Canal Street, and the existing overcrossing would be replaced with a new seven-lane structure.

The depth to groundwater was depicted at approximately 165 feet below ground surface. Based on the depth of regional groundwater, excavation activities associated with the proposed project are not likely to encounter groundwater. However, should groundwater be encountered during construction/excavation activities and dewatering

become necessary, regulatory compliance and permitting consistent with Santa Ana Regional Water Quality Control Board (SARWQCB) and National Pollutant Discharge Elimination System (NPDES) should be adhered to, and groundwater sampling should be conducted.

Federal, state and local regulatory agencies publish databases, which were reviewed to identify businesses, and properties that handle hazardous materials or hazardous waste, or are the known location of a release of hazardous substances to soil and/or groundwater. The database research indicated there were five LUST facilities located within one-fourth of a mile of the Barton Road/I-215 interchange. Three of those facilities are on site, and two facilities currently have open cases. The other two facilities (Unical #4238 and Stater Bros) are off site, and both cases have been closed by the regulatory agency.

- The ARCO Station located at 22087 Barton Road (EDR Map ID 27), east of the Barton Road/I-215 Interchange, is also identified on the Cortese, LUST (open, site assessment), UST, HIST UST, and HAZNET databases, and is also listed under the names Qwik Stop ARCO, Qwik Stop #5, and Mobil Station #92. This site is currently permitted for USTs, and is listed under the LUST database as an open clean up case for soil only. A gasoline leak of an unknown amount was discovered in October 1998. A remediation compound was visible on site.
- The Shell Service Station located at 22045 Barton Road (EDR Map ID 29), just east of the Barton Road/I-215 Interchange is listed as an open case on the LUST database (case closed for Texaco, open as Former Shell). This address is also listed in the ERNS, FINDS, Cortese, LUST, UST, HIST UST, SWEEPS UST, Notify 65, HAZNET, and EMI databases, and also named as Shell Station, Former Shell Station, Takourian Texaco, and Texaco.
- Grand Terrace Gas-Up located at 22115 Barton Road (EDR Map ID 28) is identified on the LUST database. Although this case has been closed, the potential exists for residual petroleum hydrocarbons to remain on site, and potentially be encountered during construction activities.

One facility listed under the HIST UST database has the potential for negatively impacting the site.

- Ruben Luna located at 21801 Barton Road (EDR Map ID 21). The site reports one 1,000-gallon domestic UST containing either regular or unleaded gasoline,

with no release reported. Since there is no release reported, it is unlikely that the listing in the HIST UST database should negatively impact environmental conditions at the subject site; however, given that the facility is in the area of potential takes, additional information should be gathered to assess whether the UST is still in place, or that an unreported release has not occurred.

The following facility was present on the HAZNET listing that has the potential to negatively impact environmental conditions at the site.

- A-1 Cleaners located at 21900 Barton Road #130 (EDR Map ID 22) was reported to use halogenated compounds. A SBCFD HAZMAT file revealed the business had been destroyed by fire. Based on the nature of the business, the potential exists for residual solvents to be present on the property.

Other listings in the database search are not believed to have negatively affected environmental conditions at the site.

Local regulatory agencies were contacted for reasonably ascertainable and practically reviewable information regarding environmental conditions present at facilities in the area of the site. In summary:

- According to information in SBCFD HAZMAT files, Orkin Pest Control is located at 2233 La Crosse Avenue. Though Kleinfelder had no access to the facility, the potential exists for residual pesticides at the property.
- According to the State Fire Marshal, there are no pipelines jurisdictional to the State Fire Marshal in the area of the subject site.

The history of the site was reviewed to supplement regulatory agency database records. Aerial photographs and topographic maps were available for review during this assessment. An aerial photograph from 1930 depicts Barton Road and most ancillary streets as developed roadways, while I-215 was developed sometime after 1953 and prior to 1966. Historical resources reveal the subject site was historically relatively open agricultural land and orchards with rural residential and farm-related structures. By and subsequent to 1966, the area had become, and continued to develop into a more commercial and residential area. The three service station facilities discussed previously were depicted by 1966.

A review of historic city directories also suggests two additional sites as potential environmental concerns:

- Automotive FBR Generator (21823 Barton Road)
- Pas Tex Plastics (21825 Barton Road)

Based on the age of the directory listings (1979) and inability to access current facilities, insufficient information has been obtained regarding historic facility operations; therefore, further assessment should be made.

A representative from Kleinfelder, Alexis McCollom, conducted a site reconnaissance on March 6, 2009 to assess and photograph present site conditions. Land use in the vicinity of the proposed project was predominantly mixed residential and commercial. In addition to observations previously discussed, the following observations were noted during Kleinfelder's site reconnaissance that may suggest the potential presence of hazardous involvement in the proposed project:

- Storm water channel (Gage Canal) running parallel the I-215 freeway, within the anticipated "take" area.
- Several transformers were noted along Barton Road, La Cross Avenue, DeBerry Street, and Commerce Way. Transformers appeared to be in good condition with no visible signs of leakage.
- Power lines noted on Barton Road, La Cross Avenue, DeBerry Street, and Commerce Way, in addition to several other streets in the site area and site vicinity.
- High voltage lines observed on the southwestern portion of the site, as well as a Southern California Edison sub-station northwest of the site.
- UPRR tracks at western site boundary.

5.2 RECOMMENDATIONS

In summary, this assessment has revealed the following conditions that may suggest the potential presence of hazardous material associated with the proposed project:

Elevated concentrations of lead (from use of leaded gasoline) and other metals are sometimes associated with older roadways. Barton Road, ancillary streets, and I-215 were depicted in historical topographic and aerial maps. It is Kleinfelder's understanding that sampling for ADL has already been performed for the site and results will be submitted under separate cover. Kleinfelder recommends Caltrans review the results of the ADL assessment when submitted to evaluate the presence/extent of lead impact on the site. Residual concentrations of hydrocarbons may have collected in the runoff. If the Client desires a greater level of certainty or observes signs of potential contamination (odors, discolored soil, etc.) during construction activity, sampling and analysis can be conducted.

Yellow traffic markings located on roadways (thermoplastic and paint) potentially contain hazardous levels of lead chromate. Yellow traffic markings removed separately from the adjacent pavement should be removed and sampled for lead chromate prior to construction, consistent with Caltrans' non-standard SSP 14-001.

Multiple pad-mounted and pole-mounted transformers were observed in the site area and adjoining properties. The transformers appeared to be in good condition, with no visible leaks and no soil staining. Many of these transformers are considered unlikely to impact the proposed development. Should it be deemed that transformer removal be required, Kleinfelder recommends that SCE be contacted prior to handling or removal of electric transformers. Should wooden utility poles require removal, it is recommended that additional sampling and analysis be conducted to assess the presence of creosote (often associated with the preservation of wooden utility poles) and resultant waste managed appropriately.

Due to the historic use of the railroad adjoining the site, persistent pesticides and hydrocarbons may remain in soil along and adjacent to the

railroad tracks. Also, persistent pesticides may remain in soils, based on the historical agricultural use of the area. Additionally, the potential exists for buried asbestos containing cementitious pipe (“transite”) to be present within the study area, which were commonly used for water transportation as part of historical agricultural practices. If the Client desires a greater level of certainty with respect to persistent pesticides, hydrocarbons, or observes signs of transite piping during construction activity, sampling and analysis should be conducted during the PA&ED phase of this project.

Since current plans for the Barton Road/I-215 Intersection Improvements Project include the partial demolition and widening of the Barton Road overpass as well as potential demolition of buildings and other structures, a survey and sampling for building asbestos and lead-based paint should be conducted prior to any demolition. Surveys for building asbestos and lead-based paint should be conducted during the PA&ED phase of this project. The surveys should be in conformance with the EPA’s National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR regulation, and SCAQMD’s Rule 1403. Additionally, notification of the SCAQMD prior to any structure renovation or demolition is mandatory according to Rule 1403 (d)(1)(B).

Three UST facilities (ARCO at 22087 Barton Road, Shell at 22045 Barton Road, and Grand Terrace Gas-Up at 22115 Barton Road), one HIST UST facility (Ruben Luna at 21801 Barton Road), and one HAZNET facility (A-1 Cleaners at 21900 Barton Road #130) may affect construction through residual impact of site soils. Soil and groundwater assessment should be performed during the PA&ED phase of this project to evaluate whether more extensive subsurface investigation is needed. If signs of potential impact (odors, discolored soil, etc.) are observed during construction activity, sampling and analysis should be conducted. Additionally, based on the potential for encountering impacted groundwater, soil, or for soil vapor migration, Caltrans Unknown Hazard Procedures should be implemented during construction activities in the vicinity of these facilities, and the resident engineer overseeing construction should have available field monitoring equipment (e.g., photoionization detector [PID]) to facilitate timely detection of potentially hazardous conditions in the field.

Additionally, information should be gathered regarding removal of the domestic UST at the Ruben Luna facility.

Insufficient information was available for the Orkin Pest Control (2233 La Crosse Avenue, EDR Map ID 34), Automotive FBR Generator (21823 Barton Road), Pas Tex Plastics facility (21825 Barton Road), Ruben Luna (located at 21801 Barton Road, EDR Map ID 21), and A-1 Cleaners (EDR Map ID 22, located at 21900 Barton Road #130). Given the nature of these listings and insufficient records available, further subsurface assessment activities (specifically for the Ruben Luna and A-1 Cleaners facilities) should be performed during the PA&ED phase of this project to evaluate whether more extensive subsurface investigation is needed.

Additionally, although excavation activities associated with the proposed project are not likely to encounter groundwater, should groundwater be encountered during construction/excavation activities and dewatering become necessary, regulatory compliance and permitting consistent with SARWQCB and NPDES should be adhered to, and groundwater sampling should be conducted.

It is also recommended that all hazardous waste testing should be conducted prior to the completion of PA&ED so that any special handling, treatment, or disposal provisions associated with hazardous wastes may be included in constructions documents.

6.0 REFERENCES

Environmental Data Resources (EDR), EDR DataMap™ Area Study, Barton/I-215 Interchange, Grand Terrace, CA, Inquiry No. 02403170.4r, dated January 21, 2009.

Kleinfelder, 2008, Initial Site Assessment Scope of Services, I-215 BiCounty Improvement Project from SR-60/SR-91/I-215 Interchange to Orange Show Road, dated June 4, 2008.

State of California Department of Transportation (Caltrans), 2006, Hazardous Waste, Project Development Procedures Manual, Appendix DD, dated February 28, 2006.

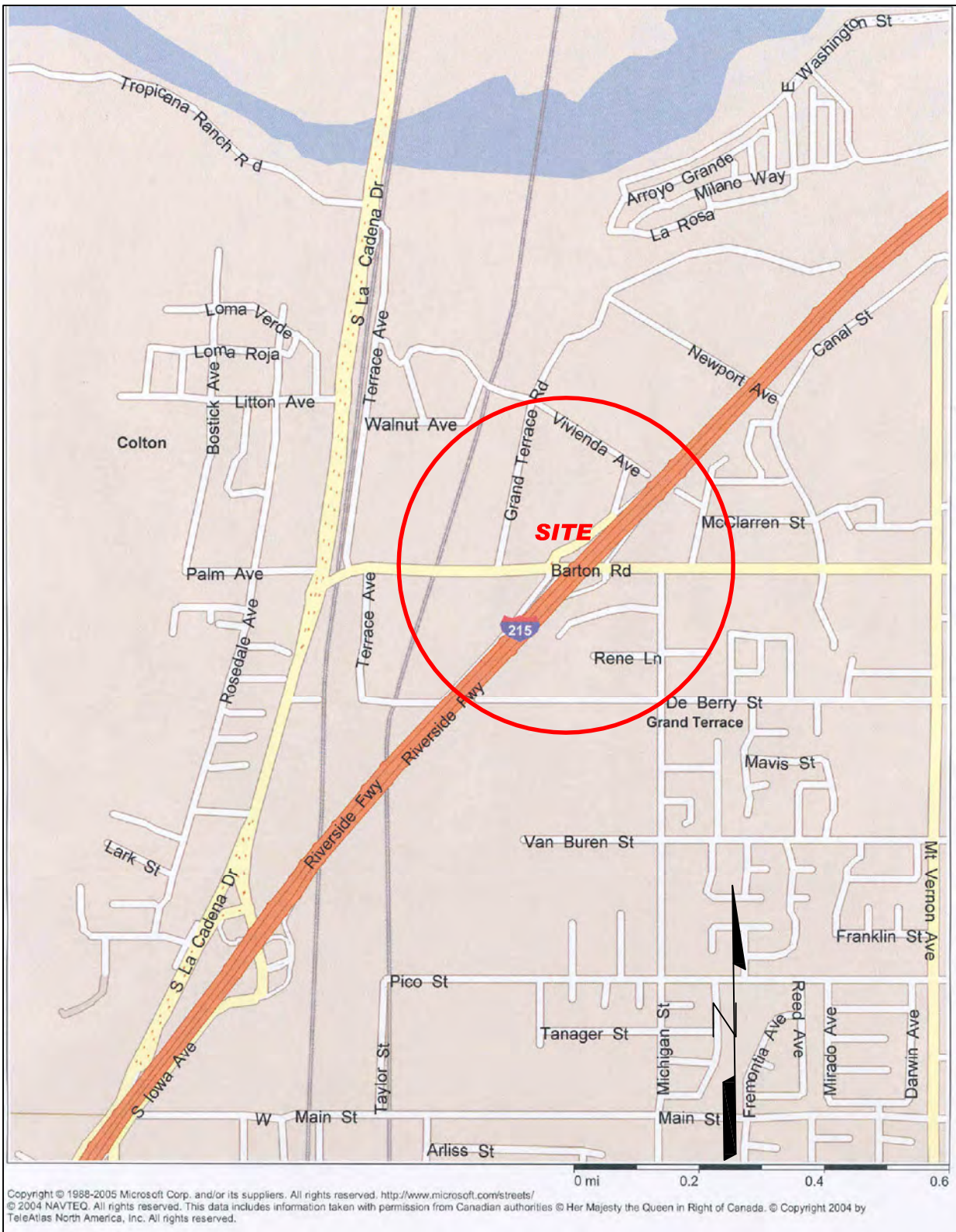
United States Geological Survey (USGS), 1967, 7.5-Minute Topographic Quadrangle Map, San Bernardino South, California, photo-revised 1980.

Additional sources are referenced separately in the report text.

PLATES

ATTACHED IMAGES: Barton.jpg
 ATTACHED XREFS:

CAD FILE: L:\2009\Cod\91601\Site Vicinity Map.dwg LAYOUT: Model



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FILE NAME:

SITE VICINITY MAP
I-215/BARTON ROAD INTERCHANGE PROJECT GRAND TERRACE, CALIFORNIA 92313

PLATE
1

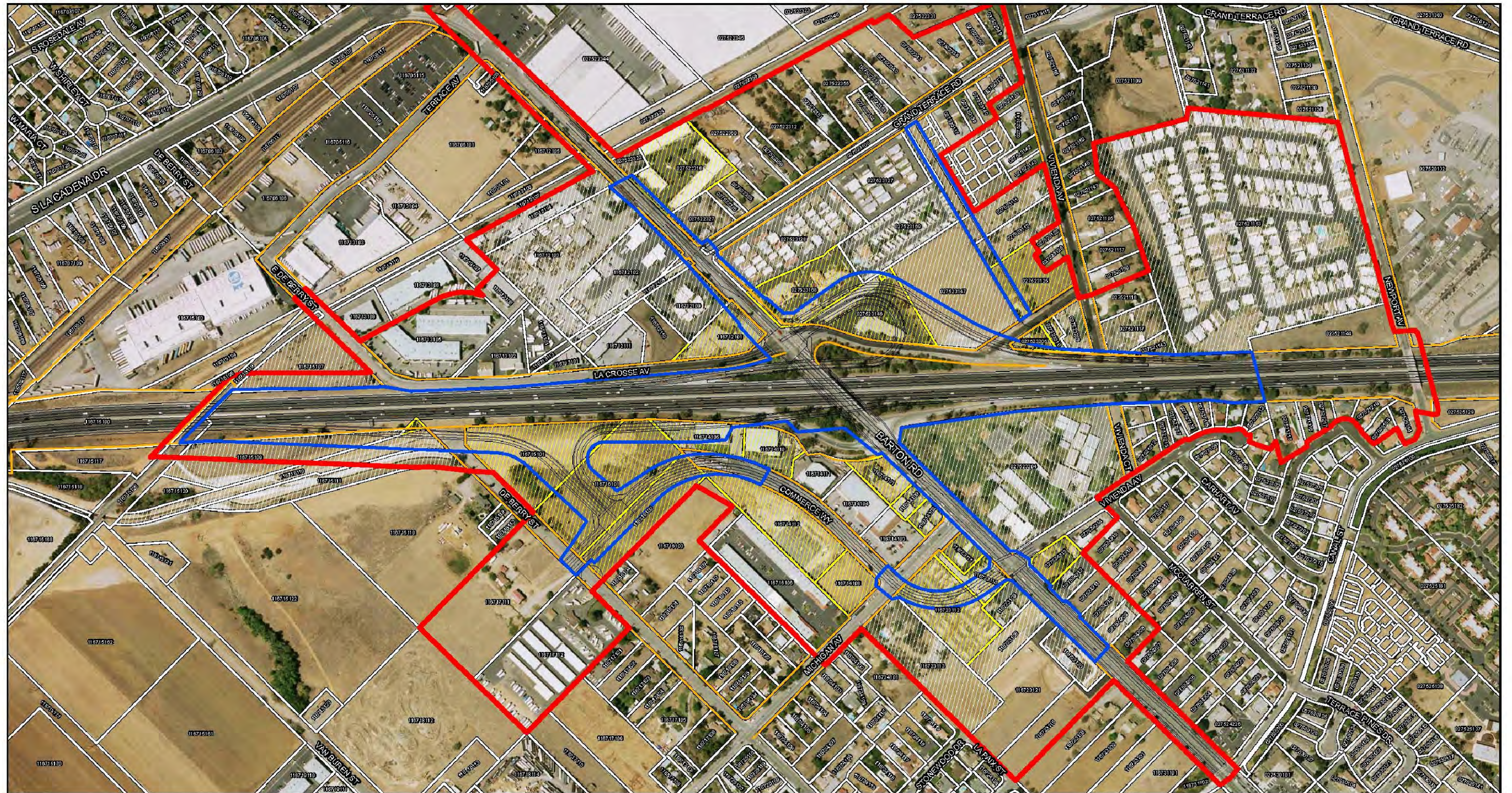
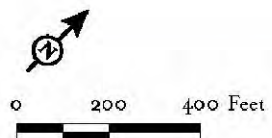


FIGURE 2

LEGEND

- Alternative 6b Alignment
- ▭ Proposed ROW for Alternative 6b
- ▭ Proposed Takes for Alternative 6b
 - ▨ Full Take
 - ▨ Partial Take
- ▭ Area of Potential Effects (APE)



DRAFT - PARCEL TAKES ARE ESTIMATED

I-215/Barton Road Interchange Project

Alternative 6b

08-SBd-215 PM 0.8/1.8

EA# 0J0700

SOURCE: Air Photo USA (2007), LAN Engineering (2008).

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CAD FILE: L:\2009\Cad\91601\Barton_Road\Plate_3.dwg LAYOUT: Model



I-215 LOOKING NORTH-BOUND FROM BARTON ROAD OVERPASS



BARTON ROAD OVERPASS LOOKING EAST-BOUND

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SITE PHOTOGRAPHS

I-215/BARTON ROAD INTERCHANGE PROJECT
GRAND TERRACE, CALIFORNIA 92313

PLATE
3

CAD FILE: L:\2009\Cad\91601\Barton_Road\Plate_4.dwg LAYOUT: Model



I-215 LOOKING SOUTH-BOUND FROM BARTON ROAD OVERPASS



BARTON ROAD LOOKING WEST-BOUND FROM OVERPASS

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FILE NAME: PLATE 4

SITE PHOTOGRAPHS

I-215/BARTON ROAD INTERCHANGE PROJECT
GRAND TERRACE, CALIFORNIA 92313

PLATE
4

CAD FILE: L:\2009\Cad\91601\Barton_Road\Plate_5.dwg LAYOUT: Model



INTERSECTION OF LA CROSS AVENUE, BARTON ROAD AND THE SOUTH-BOUND 1-215 ENTRANCE, WEST OF 1-215



POWER POLES AND POLE-MOUNTED TRANSFORMERS ALONG BARTON ROAD

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ATTACHED XREFS:



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FILE NAME: PLATE 5

SITE PHOTOGRAPHS
I-215/BARTON ROAD INTERCHANGE PROJECT GRAND TERRACE, CALIFORNIA 92313

PLATE
5



ARCO SERVICE STATION LOCATED AT 22087 BARTON ROAD



SHELL SERVICE STATION LOCATED AT 22045 BARTON ROAD, WEST OF THE ARCO STATION

CAD FILE: L:\2009\Cad\91601\Barton_Road\Plate_7.dwg LAYOUT: Model



UNLABELED DRUM NEAR COMPOUND AT THE ARCO SERVICE STATION AT 22087 BARTON ROAD



THE COMPOUND AT THE ARCO SERVICE STATION AT 22087 BARTON ROAD

ATTACHED IMAGES:
ATTACHED XREFS:



PROJECT NO. 91601
DRAWN: 4-2009
DRAWN BY: DRD
CHECKED BY:
FILE NAME: PLATE 7

SITE PHOTOGRAPHS

I-215/BARTON ROAD INTERCHANGE PROJECT
GRAND TERRACE, CALIFORNIA 92313

PLATE
7



EMPTY DRUMS STORED AT COMMERCIAL PROPERTY ON COMMERCE WAY.
ALSO NOTE PAD-MOUNTED TRANSFORMER.



PAD-MOUNTED TRANSFORMER ON COMMERCIAL PROPERTY NEAR THE SITE.

CAD FILE: L:\2009\Cad\91601\Barton_Road\Plate_9.dwg LAYOUT: Model



STORM WATER CHANNEL, WEST OF DEBERRY STREET, RUNNING NORTH AND SOUTH, PARALLEL TO I-215.



VACANT LAND WITH TRANSFORMER LOCATED OFF OF DEBERRY STREET.

ATTACHED IMAGES:
ATTACHED XREFS:



PROJECT NO. 91601
DRAWN: 4-2009
DRAWN BY: DRD
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FILE NAME: PLATE 9

SITE PHOTOGRAPHS

I-215/BARTON ROAD INTERCHANGE PROJECT
GRAND TERRACE, CALIFORNIA 92313

PLATE
9



ADDITIONAL POLE-MOUNTED TRANSFORMERS LOCATED ALONG DEBERRY STREET.



TRANSFORMER LOCATED ALONG LA CROSS AVENUE NEAR BARTON ROAD/I-215 INTERSECTION.

ATTACHED IMAGES:
ATTACHED XREFS:



PROJECT NO. 91601
 DRAWN: 4-2009
 DRAWN BY: DRD
 CHECKED BY:
 FILE NAME: PLATE 10

SITE PHOTOGRAPHS

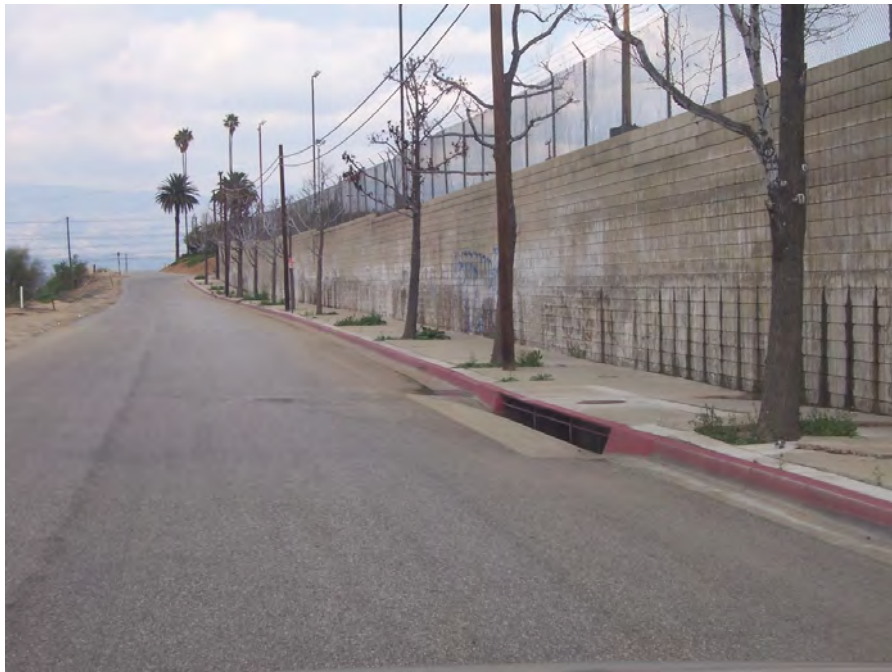
I-215/BARTON ROAD INTERCHANGE PROJECT
 GRAND TERRACE, CALIFORNIA 92313

PLATE
10

CAD FILE: L:\2009\Cad\91601\Barton_Road\Plate_11.dwg LAYOUT: Model



MISCELLANEOUS LOADING DOCKS LOCATED AT ONE OF SEVERAL COMMERCIAL PROPERTIES WEST OF I-215, IN THE WESTERN PORTION OF THE SITE.



STORM DRAINS IN THE STREET NEAR BARTON ROAD.

ATTACHED IMAGES:
ATTACHED XREFS:



PROJECT NO. 91601
DRAWN: 4-2009
DRAWN BY: DRD
CHECKED BY:
FILE NAME: PLATE 11

SITE PHOTOGRAPHS

I-215/BARTON ROAD INTERCHANGE PROJECT
GRAND TERRACE, CALIFORNIA 92313

PLATE
11

APPENDIX A

INITIAL SITE ASSESSMENT CHECKLIST



Initial Site Assessment (ISA) Checklist

Project Information

District 8 County San Bernardino Route I-215 Kilometer Post (Post Mile) _____

Description The proposed project would reconstruct the existing I-215/Barton Road Interchange consistent with the Circulation Element of the City of Grand Terrace General Plan and would accommodate projected traffic volumes through 2035. The project proposes to realign the freeway on ramps and off ramps, as well as realign Barton Road, La Crosse Avenue, Commerce Way, and Grand Terrace. It also involves the widening of Barton Road over the freeway. The existing six-lane I-215 and Barton Road overcrossing will be improved, utilizing a southbound loop on ramp, providing three lanes at Barton Road. The southbound off ramp would make a new connection at Barton Road with one right turn lane and two left turn lanes, and La Crosse Avenue north of Barton Road would be removed. The northbound off ramp would tie in to Commerce Way and provide a dual left turn lane and a single right turn lane, while a new northbound hook on ramp would be provided in the south-east quadrant. The access to the ramp will be through the proposed extension of Commerce Way. To accommodate these improvements, Commerce Way will be reconfigured to intersect with Barton Road at Vivienda Avenue, as well as shift to the east. Additionally, Commerce Way southeast of Barton Road will cross Michigan Avenue, in the vicinity of DeBerry Street. Barton Road will be widened to six lanes between UPRR and Canal Street, and the existing overcrossing would be replaced with a new seven-lane structure.

Is the project on the HW Study Minimal-Risk Projects List (HW1)? No

Project Manager Jim Robinson phone # _____

Project Engineer _____ phone # _____

Confirmed information with Ms. Shelly Lombardo, Caltrans Public Affairs, (909) 383-6290.

Project Screening

Attach the project location map to this checklist to show location of all know and/or potential HW sites identified.

1. Project Features: New R/W? Excavation? Railroad Involvement? Potential

Structure demolition/modification? Subsurface utility relocation?

2. Project Setting Barton Road/Interstate 215

Rural or Urban Urban

Current land uses 2-lane Barton Road crossing over 6-lane Interstate 215.

Adjacent land uses residential, commercial, industrial, land use
(industrial, light industry, commercial, agricultural, residential, etc.)

Initial Site Assessment (ISA) Checklist

(continued)

3. Check federal, State, and local environmental and health regulatory agency records as necessary, to see if any known hazardous waste site is in or near the project area. If a known site is identified, show its location on the attached map and attach additional sheets, as needed, to provide pertinent information for the proposed project.
4. Conduct Field Inspection. Date 07/27/09 Use the attached map to locate potential or known HW sites.

STORAGE STRUCTURES / PIPELINES:

Underground tanks Active gas stations on site. Surface tanks Not observed

Sumps Not observed Ponds Not observed

Drums Observed- some full, some empty Basins Not observed

Transformers Observed - May contain PCBs Landfill Not observed

Drums with contents were observed at a gas station, and empty drums were observed at a commercial building, on site. Staining was not visible on or adjacent to transformers.

CONTAMINATION: (spills, leaks, illegal dumping, etc.)

Surface staining Not observed Oil sheen Not observed

Odors Not observed Vegetation damage Not observed

Other N/A

HAZARDOUS MATERIALS: (asbestos, lead, etc.)

Buildings Unknown Spray-on fireproofing Unknown

Pipe wrap Unknown Friable tile Unknown

Acoustical plaster Unknown Serpentine Unknown

Paint Yellow traffic marking Other See No. 6 below

5. Additional record search, as necessary, of subsequent land uses that could have resulted in a hazardous waste site. Use the attached map to show the location of potential hazardous waste sites.

ARCO Station at 22087 Barton Road (EDR Map ID 27)

Shell Service Station at 22045 Barton Road (EDR Map ID 29)

Grand Terrace Gas-Up at 22115 Barton Road (EDR Map ID 28)

Ruben Luna at 21801 Barton Road (EDR Map ID 21)

A-1 Cleaners at 21900 Barton Road #130 (EDR Map ID 22)

Orkin Pest Control at 2233 La Crosse Avenue (EDR Map ID 34)

Automotive FBR Generator at 21823 Barton Road

Pas Tex Plastics at 21825 Barton Road

6. Other comments and/or observations: Elevated concentrations of lead and other metals are sometimes associated with older roadways. Unlined drainages collect storm water runoff along roadways. Land use adjacent to study area includes railroad tracks. Hydrocarbons and persistent pesticides may be present in soil near railroad tracks. Former land use adjacent to study area included agricultural fields. Persistent pesticides may remain. Asbestos-containing materials and lead-based paint have been known to be present in older building structures and bridge structures within concrete and appurtenancial materials.

Initial Site Assessment (ISA) Checklist

(continued)

ISA Determination

1. Does the project have potential hazardous waste involvement? **Yes.** If there is known or potential hazardous waste involvement, is additional ISA work needed before task orders can be prepared for the Investigation? **Yes** If "YES," explain; then give an estimate of additional time required:
Elevated concentrations of lead (from use of leaded gasoline) and other metals are sometimes associated with older roadways. Caltrans policy requires a lead investigation for this project. It is Kleinfelder's understanding that an aerial deposited lead (ADL) survey was performed for the site by Stantec during July/August 2009. Kleinfelder recommends Caltrans review the ADL report to evaluate the potential effect of lead on impact to environmental conditions at the site. Yellow traffic markings (thermoplastic and paint) located on Barton Road and throughout the site area may potentially contain hazardous levels of lead chromate. Yellow traffic markings removed separately from pavement should be sampled for lead chromate prior to construction, consistent with Caltrans' non-standard SSP 14-001. Asbestos-containing materials and lead-based paint have been known to be present in older building structures scheduled for demolition and bridge structures within the concrete and appurtenancial materials. Asbestos and lead-based paint may have to be managed as hazardous waste; therefore, assessment of asbestos and lead-based paint is recommended prior to construction/demolition. Three UST facilities (ARCO at 22087 Barton Road, Shell at 22045 Barton Road, and Grand Terrace Gas-Up at 22115 Barton Road), one HIST UST facility (Ruben Luna at 21801 Barton Road), and one HAZNET facility (A-1 Cleaners at 21900 Barton Road #130) may affect construction through residual impact of site soils. It is recommended that all hazardous waste testing be performed prior to completion of the PA&ED phase of the project, so that special handling, treatment, or disposal provisions associated with hazardous wastes can be included in construction documents. If signs of potential impact (odors, discolored soil, etc.) are observed during construction activity, sampling and analysis should be conducted. It is recommended that Caltrans' Unknown Hazard Procedures be implemented prior to work in these areas. Additionally, information should be gathered regarding removal of the domestic UST at the Ruben Luna facility, and further investigation should be conducted at the A-1 Cleaners facility to assess the potential of environmental impact at that facility. Insufficient information was available for the Orkin Pest Control facility (2233 La Crosse Avenue), Automotive FBR Generator facility (21823 Barton Road), and Pas Tex Plastics facility (21825 Barton Road). Further information should be gathered upon receipt of site access. Although excavation activities are not likely to encounter groundwater, should groundwater be encountered during construction activities and dewatering become necessary, regulatory compliance consistent with Santa Ana Regional Water Quality Control Board and National Pollutant Discharge Elimination System (NPDES) requirements should be followed.

A brief memo should be prepared to transmit the ISA conclusions to the Project Manager and Project Engineer.

ISA Conducted by:



Alexis McCollom
Staff Scientist

On:
February 10, 2010

Reviewed by:



Lizanne Simmons
California Professional Geologist No. 7431

On:
February 10, 2010

APPENDIX B

RESEARCH DOCUMENTATION

AQMD



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02/12/2009
(04:43 PM)



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Facility Details

Facility ID 99157
Company Name ARCO DLR ALI YASIN
Address 22087 BARTON RD
 GRAND TERRACE, CA 92313

[View Area Map](#)

Status ACTIVE

Are there any back fees due?

No.

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Equipment List

Facility ID 99157
Company Name ARCO DLR ALI YASIN
Address 22087 BARTON RD
 GRAND TERRACE, CA 92313

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
489246				Basic	R-461-Gasoline Transfer and Disp (GDF)	9/25/2008	BANKING/ PLAN GRANTED
485458	N22209	8/20/2008	ACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	7/18/2008	PERMIT TO OPERATE GRANTED
440555	N16390	3/10/2005	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	2/24/2005	PERMIT TO OPERATE GRANTED
343421	N7944	11/5/1999	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	6/23/1998	PERMIT TO OPERATE GRANTED
286814	N01889	11/18/1994	INACTIVE	Basic	STORAGE TANK GASOLINE	11/4/1993	PERMIT TO OPERATE GRANTED

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Compliance

Facility ID 99157
Company Name ARCO DLR ALI YASIN
Address 22087 BARTON RD
 GRAND TERRACE, CA 92313

Notices Of Violation

Notice Number	Notice Issue Date	Violation Date	Disposition Date	Disposition
P47487	12/6/2005	12/6/2005	4/5/2007	Closed Case
P47480	9/30/2005	9/30/2005	7/18/2007	Closed Case
L09513	8/23/1993	8/23/1993	10/15/1993	Closed Case
P19231	3/24/1998	3/24/1998	8/4/1998	Closed Case
P16673	2/23/1996	2/23/1996	4/11/1996	Closed Case

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Notices To Comply

Notice Number	Violation Date	Re-Inspection Date	Status
C88317	12/18/2003	2/5/2004	In Compliance
D00880	9/30/2005	12/6/2005	NOV
D09777	4/10/2007	5/25/2007	In Compliance
D16238	6/20/2008	10/8/2008	In Compliance

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Facility Details

Facility ID 107776
Company Name ARTISAN MARBLE, INC
Address 2279 LA CROSSE AVE
 COLTON, CA 92324

[View Area Map](#)

Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
3999	MANUFACTURING INDUSTRIES, NEC

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Equipment List

Facility ID 107776
Company Name ARTISAN MARBLE, INC
Address 2279 LA CROSSE AVE
 COLTON, CA 92324

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
427802				Basic	ERC - CHANGE OF TITLE	3/25/2004	BANKING/ PLAN GRANTED
427803				Basic	ERC - CHANGE OF TITLE	3/25/2004	BANKING/ PLAN GRANTED
426648	F74147	3/11/2005	ACTIVE	Control	SPRAY BOOTH STYRENATED RESINS	2/27/2004	PERMIT TO OPERATE GRANTED
312671	F00763	7/12/1996	INACTIVE	Control	SPRAY BOOTH STYRENATED RESINS	3/8/1996	PERMIT TO OPERATE GRANTED

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Compliance

Facility ID 107776
Company Name ARTISAN MARBLE, INC
Address 2279 LA CROSSE AVE
 COLTON, CA 92324

Notices Of Violaton: NONE

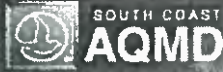
Notices To Comply

Notice Number	Violation Date	Re-inspection Date	Status
C92106	2/6/2004	2/26/2004	In Compliance
D19255	7/22/2008	8/15/2008	In Compliance

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Facility ID 157739
Company Name SHELL OIL PRODUCTS US
Address 22045 BARTON RD
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Facility ID 157739
Company Name SHELL OIL PRODUCTS US
Address 22045 BARTON RD
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Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
492614				Basic	SOIL TREAT VAPOR EXTRACT GASOLINE UNDER	12/5/2008	ASSIGNED TO ENGINEER - CLASS I

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Facility Details

Facility ID 154697
Company Name ARTMN, INC.
Address 22087 BARTON RD
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Facility ID 154697
Company Name ARTMN, INC.
Address 22087 BARTON RD
 GRAND TERRACE, CA 92313

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
479111	F97357	6/10/2008	ACTIVE	Basic	SOIL TREAT VAPOR EXTRACT GASOLINE UNDER	4/22/2008	PERMIT TO OPERATE GRANTED

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Facility Details

Facility ID 147772
Company Name KEROMINA MARKET PLACE INC
Address 22045 BARTON RD
 GRAND TERRACE, CA 92313

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Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
5541	GASOLINE SERVICE STATIONS

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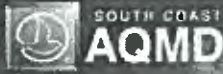
Facility ID 147772
Company Name KEROMINA MARKET PLACE INC
Address 22045 BARTON RD
 GRAND TERRACE, CA 92313

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
456227	N18759	5/10/2006	ACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	4/14/2006	PERMIT TO OPERATE GRANTED
456226	N18736	5/4/2006	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	4/14/2006	PERMIT TO OPERATE GRANTED

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Compliance

Facility ID 147772

Company Name KEROMINA MARKET PLACE INC

Address 22045 BARTON RD
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Notices Of Violaton: NONE

Notices To Comply: NONE

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Facility Details

Facility ID 137856

Company Name IN AND OUT PAINT-BLUE MOUNTAIN COLLISION

Address 12190 LA CROSSE AVE
 GRAND TERRACE, CA 92313

[View Area Map](#)

Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
7532	TOP & BODY REPAIR/PAINT SHOPS

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Equipment List

Facility ID 137856
Company Name IN AND OUT PAINT-BLUE MOUNTAIN COLLISION
Address 12190 LA CROSSE AVE
 GRAND TERRACE, CA 92313

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
419789	F63363	9/12/2003	ACTIVE	Basic	OVEN, BAKING	9/9/2003	PERMIT TO OPERATE GRANTED
419788	F63362	9/12/2003	ACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	9/9/2003	PERMIT TO OPERATE GRANTED
419790	F63364	9/12/2003	ACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT	9/9/2003	PERMIT TO OPERATE GRANTED

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Compliance

Facility ID 137856

Company Name IN AND OUT PAINT-BLUE MOUNTAIN COLLISION

Address 12190 LA CROSSE AVE
 GRAND TERRACE, CA 92313

Notices Of Violaton: NONE

Notices To Comply: NONE

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Facility Details

Facility ID 122324
Company Name SUPER CLEANERS
Address 22310 BARTON RD
 GRAND TERRACE, CA 92313

[View Area Map](#)

Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
7216	DRY CLEANING PLANTS, EXC RUG

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Equipment List

Facility ID 122324
Company Name SUPER CLEANERS
Address 22310 BARTON RD
 GRAND TERRACE, CA 92313

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
466515	F88584	3/28/2007	ACTIVE	Basic	DRY CLEANING, DRY-TO-DRY NV, W/ SIC, PERC	3/14/2007	PERMIT TO OPERATE GRANTED
366881	F28324	4/27/2000	INACTIVE	Basic	DRY CLEANING, DRY-TO-DRY NV, W/ SIC, PERC	3/6/2000	PERMIT TO OPERATE GRANTED
366881	F28324	4/27/2000	INACTIVE	Control	VAPOR RECOVERY UNIT COMPRESS & CONDENSE	3/6/2000	PERMIT TO OPERATE GRANTED

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Compliance

Facility ID 122324
Company Name SUPER CLEANERS
Address 22310 BARTON RD
 GRAND TERRACE, CA 92313

Notices Of Violaton: NONE

Notices To Comply: NONE

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Facility Details

Facility ID 94995
Company Name THE GAGE CANAL COMPANY
Address 12224 MICHIGAN ST
 GRAND TERRACE, CA 92324

[View Area Map](#)

Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
4941	WATER SUPPLY

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Equipment List

Facility ID 94995
Company Name THE GAGE CANAL COMPANY
Address 12224 MICHIGAN ST
 GRAND TERRACE, CA 92324

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
485722	F99899	11/19/2008	ACTIVE	Basic	I C E (50-500 HP) N-EM STAT NAT GAS ONLY	7/25/2008	PERMIT TO OPERATE GRANTED
485654				Basic	PLAN RULE 1110.2- Inspection & Monitoring Plan	7/23/2008	ASSIGNED TO ENGINEER - CLASS III
482221				Basic	I C E (50-500 HP) N-EM STAT NAT GAS ONLY	5/27/2008	APPLICATION CANCELLED
280355	D73995	6/7/1993	INACTIVE	Basic	I C E (50-500 HP) N-EM STAT NAT GAS ONLY	4/16/1993	PERMIT TO OPERATE GRANTED
280355	D73995	6/7/1993	INACTIVE	Control	NON SELECTIVE CATALYTIC REDUCTION	4/16/1993	PERMIT TO OPERATE GRANTED
276366	D68056	1/11/1993	INACTIVE	Basic	I C E (50-500 HP) EM ELEC GEN-NAT GAS	1/7/1993	PERMIT TO OPERATE GRANTED
277031				Basic	RULE 1110.2 EMISSION CONTROL PLAN	1/4/1993	BANKING/ PLAN GRANTED

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Compliance

Facility ID 94995

Company Name THE GAGE CANAL COMPANY

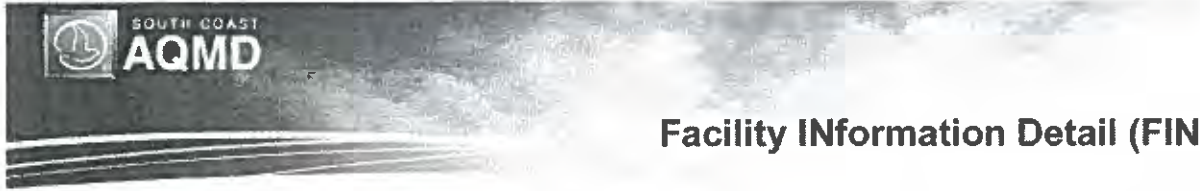
Address 12224 MICHIGAN ST
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Notices Of Violaton: NONE

Notices To Comply: NONE

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Facility Details

Facility ID 85527
Company Name STATER BROS MARKETS
Address 280 E DEBERRY
 COLTON, CA 92324

[View Area Map](#)

Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
5411	GROCERY STORES

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Equipment List

Facility ID 85527
Company Name STATER BROS MARKETS
Address 280 E DEBERRY
 COLTON, CA 92324

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
475823	F94148	12/5/2007	INACTIVE	Basic	FRUIT AND VEG.TREATING (ETHYLENE GEN.)	11/29/2007	PERMIT TO OPERATE GRANTED
475825	F94149	12/5/2007	INACTIVE	Basic	FRUIT AND VEG.TREATING (ETHYLENE GEN.)	11/29/2007	PERMIT TO OPERATE GRANTED
475824	F94150	12/5/2007	INACTIVE	Basic	FRUIT AND VEG.TREATING (ETHYLENE GEN.)	11/29/2007	PERMIT TO OPERATE GRANTED
475822				Basic	SERV STAT STORAGE & DISPENSING GASOLINE	10/29/2007	APPLICATION REJECTED
277698	D84487	8/2/1994	INACTIVE	Basic	FRUIT AND VEG.TREATING (ETHYLENE GEN.)	2/2/1993	PERMIT TO OPERATE GRANTED
277699	D84488	8/2/1994	INACTIVE	Basic	FRUIT AND VEG.TREATING (ETHYLENE GEN.)	2/2/1993	PERMIT TO OPERATE GRANTED
277700	D84489	8/2/1994	INACTIVE	Basic	FRUIT AND VEG.TREATING (ETHYLENE GEN.)	2/2/1993	PERMIT TO OPERATE GRANTED
277701	D84544	8/4/1994	INACTIVE	Basic	FRUIT AND VEG.TREATING (ETHYLENE GEN.)	2/2/1993	PERMIT TO OPERATE GRANTED

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Compliance

Facility ID 85527
Company Name STATER BROS MARKETS
Address 280 E DEBERRY
 COLTON, CA 92324

Notices Of Violaton: NONE

Notices To Comply: NONE

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Facility Details

Facility ID 51479
Company Name SO CAL EDISON CO
Address 22200 NEWPORT AVE
 COLTON, CA 92324

[View Area Map](#)

Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
4911	ELECTRIC SERVICES

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Equipment List

Facility ID 51479
Company Name SO CAL EDISON CO
Address 22200 NEWPORT AVE
 COLTON, CA 92324

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
357331	N8757	12/20/2000	ACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	7/20/1999	PERMIT TO OPERATE GRANTED
218438	D22488	11/2/1990	INACTIVE	Basic	I C E (50-500 HP) EM FIRE FGHT-GASOLINE	12/5/1989	PERMIT TO OPERATE GRANTED
191789	M95248	8/21/1990	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	5/5/1989	PERMIT TO OPERATE GRANTED
191789	M95248	8/21/1990	INACTIVE	Control	AMINE TREATING	5/5/1989	PERMIT TO OPERATE GRANTED
162352	M89609	1/27/1988	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	11/4/1987	PERMIT TO OPERATE GRANTED
162352	M89609	1/27/1988	INACTIVE	Control	AMINE (OR DEA) REGENERATION	11/4/1987	PERMIT TO OPERATE GRANTED
140334	M89006	11/5/1987	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	1/2/1986	PERMIT TO OPERATE GRANTED
140334	M89006	11/5/1987	INACTIVE	Control	AMINE TREATING	1/2/1986	PERMIT TO OPERATE GRANTED

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Compliance

Facility ID 51479
Company Name SO CAL EDISON CO
Address 22200 NEWPORT AVE
 COLTON, CA 92324

Notices Of Violaton: NONE

Notices To Comply: NONE

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Facility Details

Facility ID 72055
Company Name DEMETRI'S RESTAURANT DBA
Address 21900 BARTON RD
 GRAND TERRACE, CA 92324

[View Area Map](#)

Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
5812	EATING PLACES

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Equipment List

Facility ID 72055
Company Name DEMETRI'S RESTAURANT DBA
Address 21900 BARTON RD
 GRAND TERRACE, CA 92324

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
362047	F28991	5/3/2000	ACTIVE	Basic	CHARBROILER - NATURAL GAS	11/29/1989	PERMIT TO OPERATE GRANTED
217084	D16685	1/24/1990	INACTIVE	Basic	CHARBROILER - NATURAL GAS	11/29/1989	PERMIT TO OPERATE GRANTED

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Compliance

Facility ID 72055
Company Name DEMETRI'S RESTAURANT DBA
Address 21900 BARTON RD
 GRAND TERRACE, CA 92324

Notices Of Violaton: NONE

Notices To Comply: NONE

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SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden

March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr., Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORD SEARCH FINDINGS

Re Properties at:

**2185, 2233, 2273, 12190 La Crosse
Grand Terrace (or Colton), California**

This is to confirm that the San Bernardino County Hazardous Materials Division has identified records that pertain to the subject sites, as described in your request for records search 09020203.

The file(s) listed below can be made available for your review upon request. If you wish to review the original file(s), please e-mail this office at eking@sbcfire.org or call the number at the end of this to arrange an appointment.

ACTIVE PERMIT FACILITIES:

(Regulatory files for facilities with annual operating permits to maintain underground storage tanks, storage hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

FA0005122
ORKIN PEST CONTROL #754
2233 La Crosse

Hazardous Materials Handler Permit
ACTIVE

FA0003928
BLUE MTN COLLISION CENTER
Formerly IN & OUT PAINT & BODY
12190 La Crosse
*(Note: Permit previously issued as
11190 La Crosse, old address of property
before city correction)*

Hazardous Materials Handler Permit
Hazardous Waste Generator Permit
-- limited quantity
ACTIVE

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES:

(Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed. Files will also include

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County Administrative Officer
NORMAN A. KANOLD
Assistant County Administrator
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BRAD MITZELFELT First District NEIL DERRY Third District
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JOSIE GONZALES Fifth District

any underground tank removal/construction activity records and site remediation/ contamination records for facilities no longer operating underground tanks).

FA0000719
AIR LIQUIDE AMERICA CORP
2185 La Crosse

Hazardous Materials Handler Permit
INACTIVE (Out of business)

FA0002291
ENGINEERING SERVICE CORP
2273 La Crosse

Non-Handler
Non-Generator

HAZ MAT INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY:

(other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

CO0000404 – COMPLAINT

11190 La Crosse (old address of property at 12190 La Crosse before city correction)

9/6/00

PAINT JOB DONE OUTSIDE - POORLY (excerpt)

SITE REMEDIATION:

(Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

No record of site remediation

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team.

Due to the number of records requested and identified in this series of search records and to expedite results, logs of permits issued for the removal and/or installation of underground storage tanks were not searched (UST permit facilities are already included).

Also, a separate archive system of permit facilities that were closed between 1993 and 2002 was not searched. The particular records relate to non-UST permits only (hazardous material handler, hazardous waste generator, etc.) that were closed before June 2002. Should you wish to include either of these databases in this research, please contact this office.

Please call this office or send email to eking@sbcfire.org for a review appointment or further clarification if needed.



ELIZABETH A. KING
Environmental Specialist III
OFM Hazardous Materials Division
(909) 386-8468 (909) 386-8460 FAX
eking@sbcfire.org

SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden

March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr. Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORDS FINDING REPORT

Re Property at:

**2277 La Crosse
Grand Terrace (or Colton), California**

This is to confirm that the Hazardous Materials Division has searched its records for any file(s) pertaining to the subject properties, as described in your request 09020203, and finds no records exist for the above site description(s).

Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.


 ELIZABETH A. KING
 Environmental Specialist III
 OFM Hazardous Materials Division
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 County Administrative Officer
 NORMAN A. KANOLD
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 JOSIE GONZALES Fifth District

SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
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OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
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PAT A. DENNEN
Fire Chief
County Fire Warden

March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr. Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORDS FINDING REPORT

Re Property at:

**22050, 22070, 22075 Commerce Way and nearby APN 1167-141-06 and -08
Grand Terrace (or Colton), California**

This is to confirm that the Hazardous Materials Division has searched its records for any file(s) pertaining to the subject properties, as described in your request 09020205, and finds no records exist for the above site description(s).

Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.

ELIZABETH A. KING
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OFM Hazardous Materials Division
eking@sbcfire.org
(909) 386-8468 (909) 386-8460 fax

MARK H. UFFER
County Administrative Officer
NORMAN A. KANOLD
Assistant County Administrator
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SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
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620 South "E" Street • San Bernardino, CA 92415-0153
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PAT A. DENNEN
Fire Chief
County Fire Warden

March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr. Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORDS FINDING REPORT

Re Properties at:

12135 and 12173 Michigan and nearby APN's 0275-231-00 (part) and 0275-231-27 (W/o 21845 Grand Terrace Rd.), Grand Terrace (or Colton), California

This is to confirm that the Hazardous Materials Division has searched its records for any file(s) pertaining to the subject properties, as described in your request 09020205-II, and finds no records exist for the above site description(s).

NOTE: APN 0275-231-00 is an invalid Assessor Parcel Number. However, there should be no record because no records were identified for any property within Book 0275 Page 23 (Block 231).

Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.

ELIZABETH A. KING
Environmental Specialist III
OFM Hazardous Materials Division
eking@sbcfire.org
(909) 386-8468 (909) 386-8460 fax

MARK H. UFFER
County Administrative Officer
NORMAN A. KANOLD
Assistant County Administrator
Public and Support
Services Group

		Board of Supervisors	
BRAD MITZELFELT	First District	NEIL DERRY	Third District
PAUL BIANE	Second District	GARY C. OVITT	Fourth District
JOSIE GONZALES	Fifth District		

SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden

March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr., Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORD SEARCH FINDINGS

Re Properties at:

**22060 Commerce Way and 22080 Commercial Dr. (Commerce Way)
Grand Terrace (or Colton), California**

This is to confirm that the San Bernardino County Hazardous Materials Division has identified records that pertain to the subject sites, as described in your request for records search 09020205.

The file(s) listed below can be made available for your review upon request. If you wish to review the original file(s), please e-mail this office at eking@sbcfire.org or call the number at the end of this to arrange an appointment.

ACTIVE PERMIT FACILITIES:

(Regulatory files for facilities with annual operating permits to maintain underground storage tanks, storage hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

FA0006543
SUPERIOR POOL PROD LLC
22060 Commerce Way

Hazardous Materials Handler Permit
ACTIVE

FA0001732
CALIFORNIA SKATE GRAND TERRACE
22080 Commerce Way
(records previously entered as
22080 Commercial Dr.)

Hazardous Materials Handler Permit
Inactive Hazardous Waste Generator Permit
-- special category (recycle/reuse)
ACTIVE

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES:

(Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed. Files will also include

MARK H. UFFER
County Administrative Officer

NORMAN A. KANOLD
Assistant County Administrator
Public and Support
Services Group

Board of Supervisors
BRAD MITZELFELT First District NEIL DERRY Third District
PAUL BIANE Second District GARY C. OVITT Fourth District
JOSIE GONZALES Fifth District

any underground tank removal/construction activity records and site remediation/ contamination records for facilities no longer operating underground tanks).

No record of inactive permit facilities

HAZ MAT INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY:

(other records of spill notifications and/or complaints not listed below may exist in facility permit files).

No record of haz mat incident and/or complaint response

SITE REMEDIATION:

(Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

No record of site remediation

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team.

Due to the number of records requested and identified in this series of search records and to expedite results, logs of permits issued for the removal and/or installation of underground storage tanks were not searched (UST permit facilities are already included).

Also, a separate archive system of permit facilities that were closed between 1993 and 2002 was not searched. The particular records relate to non-UST permits only (hazardous material handler, hazardous waste generator, etc.) that were closed before June 2002. Should you wish to include either of these databases in this research, please contact this office.

Please call this office or send email to eking@sbcfire.org for a review appointment or further clarification if needed.



ELIZABETH A. KING
Environmental Specialist III
OFM Hazardous Materials Division
(909) 386-8468 (909) 386-8460 FAX
eking@sbcfire.org

SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden

March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr. Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORDS FINDING REPORT

Re Property at:

382 and 21875 De Berry and nearby APN's 1167-151-10, -01, -09, -11, -19, -26 and APN 1167-161-01, -02, Grand Terrace (or Colton), California

This is to confirm that the Hazardous Materials Division has searched its records for any file(s) pertaining to the subject properties, as described in your request 09020204, and finds no records exist for the above site description(s).

NOTE: There is a record of a report of a milky looking substance flowing in a drainage canal on or off De Berry that was made on 11/7/89. It shows that the inspector was unable to substantiate the report and no further action was taken. There is not enough information in the record to determine or confirm the exact location of the report; therefore, it has not been determined to meet the definition of a record pertaining to one of the subject properties.

Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.

ELIZABETH A. KING
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OFM Hazardous Materials Division
eking@sbcfire.org
(909) 386-8468 (909) 386-8460 fax

MARK H. UFFER
County Administrative Officer
NORMAN A. KANOLD
Assistant County Administrator
Public and Support
Services Group

Board of Supervisors			
BRAD MITZELFELT	First District	NEIL DERRY	Third District
PAUL BIANE	Second District	GARY C. OVITT	Fourth District
JOSIE GONZALES	Fifth District		

09020206 Grand Terrace Nri Kleinfelder
**SAN BERNARDINO COUNTY
FIRE DEPARTMENT**



**COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP**

**OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION**
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden
March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr. Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORDS FINDING REPORT

Re Properties at:

APN 0275-223-24 (between 21700-21800 Barton), 1177-121-08, 1167-131-13, 1167-151-11, 1167-151-19, 1167-151-26, 1167-171-02, 0275-232-04 (Note: APN 0275-232-04-P002 has address 12066 Vivienda), Grand Terrace (or Colton), California

This is to confirm that the Hazardous Materials Division has searched its records for any file(s) pertaining to the subject properties, as described in your request 09020206, and finds no records exist for the above site description(s).

NOTE: There is a record of a report of a milky looking substance flowing in a drainage canal on or off De Berry that was made on 11/7/89, mentioned in our findings regarding sites near De Berry. The record shows that the inspector was unable to substantiate the report and no further action was taken. There is not enough information in the record to determine or confirm the exact location of the report; therefore, it has not been determined to meet the definition of a record pertaining to one of the subject properties. This notation is add because at least two of the parcels requested above are labeled "Riverside Canal" in Assessor maps.

Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.


ELIZABETH A. KING
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OFM Hazardous Materials Division
eking@sbcfire.org
(909) 386-8468 (909) 386-8460 fax

MARK H. UFFER
County Administrative Officer
NORMAN A. KANOLD
Assistant County Administrator
Public and Support
Services Group

Board of Supervisors
BRAD MITZELFELT First District NEIL DERRY Third District
PAUL BIANE Second District GARY C. OVITT Fourth District
JOSIE GONZALES Fifth District

SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden

March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr. Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORDS FINDING REPORT

Re Properties at:

**21769, 21823, 21893, 22077, 22161, 22172, 22182, 22220, 22238 Barton Rd.;
Vacant APN's 0275-242-10 and 0275-242-11 between 22182 - 22220 Barton Rd.,
Grand Terrace (or Colton), California**

This is to confirm that the Hazardous Materials Division has searched its records for any file(s) pertaining to the subject properties, as described in your request 09020202, and finds no records exist for the above site description(s).

Records searched include:

- facilities with hazardous waste generator permits, hazardous materials handler permits, underground storage tank permits, universal waste permits, tiered permits, EPCRA facilities, RMP facilities, Cal ARP facilities, and/or waste recycling generators, including inactive and/or out of business records, as well as non-permitted facility actions;
- logs of permits issued for the removal, installation, and/or modification of underground storage tanks;
- records and databases pertaining to illicit dumping, spill reports and release notifications, and complaints;
- incidents responded to by the hazardous materials emergency response team;
- and sites undergoing remediation for contaminated soil and/or groundwater.

ELIZABETH A. KING
Environmental Specialist III
OFM Hazardous Materials Division
eking@sbcfire.org
(909) 386-8468 (909) 386-8460 fax

MARK H. UFFER
County Administrative Officer

NORMAN A. KANOLD
Assistant County Administrator
Public and Support
Services Group

		Board of Supervisors	
BRAD MITZELFELT	First District	NEIL DERRY	Third District
PAUL BIANE	Second District	GARY C. OVITT	Fourth District
JOSIE GONZALES	Fifth District		

SAN BERNARDINO COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden

March 11, 2009

Kleinfelder, Inc.
43174 Business Park Dr., Suite 103
Temecula CA 92590

ATTENTION: Alexis McCollom

SUBJECT: CERTIFIED RECORD SEARCH FINDINGS

Re Properties at:

**21800, 21881, 21900, 22045, 22087, 22115, and 22125 Barton Rd.
Grand Terrace (or Colton), California**

This is to confirm that the San Bernardino County Hazardous Materials Division has identified records that pertain to the subject sites, as described in your request for records search 0920202.

The file(s) listed below can be made available for your review upon request. If you wish to review the original file(s), please e-mail this office at eking@sbcfire.org or call the number at the end of this to arrange an appointment.

ACTIVE PERMIT FACILITIES:

(Regulatory files for facilities with annual operating permits to maintain underground storage tanks, storage hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

FA0002235
CLINICAL LAB OF SAN BDNO
21881 Barton Rd.

Hazardous Materials Handler Permit
Hazardous Waste Generator Permit
ACTIVE

FA0010703
GRAND TERRACE MARKETPLACE
22045 Barton Rd.

Hazardous Materials Handler Permit
Underground Storage Tank Permit
ACTIVE (New Installs11/27/07)

FA0005497
QUICK STOP #5
22087 Barton Rd.

Hazardous Materials Handler Permit
Hazardous Waste Generator Permit
-- special categories (consolidated manifest)
Underground Storage Tank Permit
ACTIVE

MARK H. UFFER
County Administrative Officer

NORMAN A. KANOLD
Assistant County Administrator
Public and Support
Services Group

Board of Supervisors
BRAD MITZELFELT First District NEIL DERRY Third District
PAUL BIANE Second District GARY C. OVITT Fourth District
JOSIE GONZALES Fifth District

FA0009805
GT PITSTOP AUTO SPORTS
22115 Barton Rd.

Hazardous Materials Handler Permit
Hazardous Waste Generator Permit
-- special categories (consolidated manifest)
ACTIVE

FA0001228
AUTO ZONE # 5614
22125 Barton Rd.

Hazardous Materials Handler Permit
Hazardous Waste Generator Permit
-- special categories (consolidated manifest)
(previous used oil collection center status)
ACTIVE

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES:

(Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities no longer operating underground tanks).

FA0004568
MALY'S OF CALIFORNIA INC
22125 Barton Rd.

Hazardous Materials Handler Permit
Hazardous Waste Generator Permit
-- special categories (consolidated manifest)
INACTIVE PERMITS
ACTIVE Non-Handler, Non-Generator

FA0010282
CM MOTORSPORTS
21800 Barton Rd., Ste 102

Hazardous Waste Generator Permit
-- limited quantity
INACTIVE (out of business)

FA0000094
A-1 CLEANER
21900 Barton Rd.

Hazardous Materials Handler Permit
Hazardous Waste Generator Permit
-- special categories (consolidated manifest)
INACTIVE (destroyed in fire)

FA0006581
GRAND TERRACE SHELL
22045 Barton Rd.

Hazardous Materials Handler Permit
Underground Storage Tank Permit
INACTIVE (USTS removed)

FA0006635
TEXACO REFINING/MRKTG INC
22045 Barton Rd.

Hazardous Materials Handler Permit
Hazardous Waste Generator Permit
-- special categories (recycle/reuse)
INACTIVE (Closed)

FA0003546
GRAND TERRACE GAS-UP#2603
22115 Barton Rd.

Hazardous Materials Handler Permit
Underground Storage Tank Permit
INACTIVE (USTS Removed)

FA0004115
JERRY'S AUTO SERVICE
22115 Barton Rd.

Hazardous Waste Generator Permit
-- special categories (recycle/reuse)
INACTIVE (Closed)

IN901764
CARPET PAD SALES CO
21800 Barton Rd.

Hazardous Waste Generator Permit and/or
Hazardous Material Handler Permit
INACTIVE (1984-1992)

IN911758
CARPET PAD SALES.
21800 Barton Rd.

Non-Handler, Non-Generator
INACTIVE (1984-1992)

HAZ MAT INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY:

(other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

CO0003023 – INCIDENT RESPONSE

21800 Barton Rd.

9/12/02

HAZMAT RESPONSE REQUESTED BY CHP ON DIESEL RELEASE FROM TRACTOR TRAILER MAKING DELIVERY TO STATER BROS. WAREHOUSE. DRIVER BROKE CROSSOVER ON FREEWAY, TRAILING DIESEL FUEL OVER OFF-RAMP, PARKED AT LOCATION ON STREET ADJACENT TO 21800 BARTON WAITING FOR WAREHOUSE TO OPEN AND THEN DROVE TO WAREHOUSE WHERE RELEASE WAS NOTED. CLEAN UP CONDUCTED BY CONSOLIDATED WASTE AND AUTHORIZED BY GARY AT NRT OFFICE. CLEAN UP COMPLETED BY MID-AFTERNOON AND INVOLVED CLEAN UP OF 21800 BARTON ROAD COMPLEX PARKING LOT AND STATER BROTHERS PARKWAY LOT. NO WATER WAYS INVOLVED AND NO SOIL REMEDIATION REQUIRED.

Chemical:DIESEL FUEL

Release Amount:125GAL

CO0000655 – COMPLAINT

QUIK STOP #5

22087 Barton Rd.

4/22/03

UNLABELED DRUMS ALONG SIDE PROPERTY

SITE REMEDIATION:

(Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

LOP 90137
TEXACO SERVICE STATION
22045 Barton Rd.

L. Holst, staff
CASE CLOSED 9/17/96

LOP 2004027
FORMER SHELL STATION
22045 Barton Rd.

L. Holst, staff
ON-GOING CASE

LOP 99012
QWIK STOP ARCO
22087 Barton Rd.

C. Richards, staff
ON-GOING CASE

LOP 99084
GRAND TERRACE GAS-UP #2603
22115 Barton Rd.

L. Holst, staff
CASE CLOSED 3/15/00

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team.

Due to the number of records requested and identified in this series of search records and to expedite results, logs of permits issued for the removal and/or installation of underground storage tanks were not searched (UST permit facilities are already included).

Also, a separate archive system of permit facilities that were closed between 1993 and 2002 was not searched. The particular records relate to non-UST permits only (hazardous material handler, hazardous waste generator, etc.) that were closed before June 2002. Should you wish to include either of these databases in this research, please contact this office.

Please call this office or send email to eking@sbcfire.org for a review appointment or further clarification if needed.



ELIZABETH A. KING
Environmental Specialist III
OEM Hazardous Materials Division
(909) 386-8468 (909) 386-8460 FAX
eking@sbcfire.org



Office of the State Fire Marshal

Pipeline Safety Division

P O Box 944246
Sacramento, CA 94244-2460

Request ID: 02032009SFM003

TO: KLEINFELDER
ALEXIS MCCOLLOM
43174 BUSINESS PARK DRIVE #103
TEMECULA, CA 92590

Phone: 951 506 1488
Fax: 951 506 1491

FROM: Lisa Dowdy

Phone: (916) 445-8477
Fax: (916) 445-8526

PIPELINE LOCATION REQUEST FOR:

**BARTON ROAD/I-215
GRAND TERRACE, CA 92313**

SAN BERNARDINO Thomas Brothers Book
Page 646, Grid C4,D,E3,4

THERE ARE NO PIPELINES JURISDICTIONAL TO THE STATE FIRE
MARSHAL IN THE AREA FOR WHICH YOU HAVE INQUIRED.

- FOR NATURAL GAS PIPELINES PLEASE CONTACT YOUR LOCAL GAS COMPANY

- FOR OTHER TYPES OF PIPELINE PLEASE CONTACT THE DIVISION OF OIL AND GAS AT
(714) 816-6847

- FOR PUBLIC UTILITIES PLEASE CONTACT THE PUBLIC UTILITIES COMMISSION AT (415)
703-2782

CRWOCB REGION 8
 NEW CAS
 MAY 21 2007

May 14, 2007
 DELTA Project No. PA220451X
 SAP No. 120906

Ms. Lisa Holst
 San Bernardino County Fire Department
 Hazardous Materials Division
 620 South E. Street
 San Bernardino, California 92415



Re: Confirmation of Verbal Approval of Groundwater Sampling Reduction
Former Shell Service Station
22045 Barton Road
Grand Terrace, California
Site # 2004027

Dear Ms. Holst:

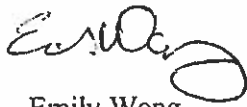
On behalf of Equilon Enterprises LLC dba Shell Oil Products (SHELL), Delta Environmental Consultants, Inc. (DELTA) submits this *Confirmation of Verbal Approval of Groundwater Sampling Reduction*. During the telephone conversation on April 20, 2007 between Ms. Katherine Swords (DELTA) and Ms. Lisa Holst of San Bernardino County Fire Department (SBCFD), Ms. Holst reviewed the current and historical groundwater data and verbally approved the groundwater sampling event to be reduced to semi-annual at the above referenced site.

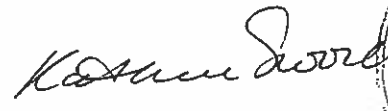
DELTA would like to implement the changes beginning with the Second Quarter 2007 monitoring event. If approved by SBCFD, Blaine Tech Services (BTS), SHELL's sampling coordinator, will be notified of the required changes. The changes will result in a reduction of groundwater sampling event to semi-annual with sampling events occurring in second and fourth quarters.

Ms. Lisa Holst
San Bernardino County Fire Department
May 14, 2007
Page 2

DELTA assumes that this confirmation letter meets with your approval unless we hear otherwise from you. If you have any questions regarding this Site, please contact Ms. Emily Wong (DELTA Project Manager) or Ms Katherine Swords (DELTA) at (626) 256-6662. The SHELL Project Engineer is Mr. Randy Orłowski; Mr. Orłowski can be reached at (949) 360-1111.

Sincerely,
Delta Environmental Consultants, Inc.


Emily Wong
Project Engineer


Katherine Swords, P.E. C70071
Senior Project Engineer



cc: Mr. Randy Orłowski, Shell Oil Products US
Mr. Fahim Tanios, c/o Bleau, Fox & Fong
Mr. Larry Jacobs, Shell Oil Products US
Mr. Carl Bernhardt, Santa Ana Regional Water Quality Control Board

April 6, 2007
DELTA Project No. PA220451X
SAP No. 120906



MAY 21 2007



Ms. Lisa Holst
San Bernardino County Fire Department
Hazardous Materials Division
620 South E. Street
San Bernardino, California 92415



**Re: FIRST QUARTER 2007 GROUNDWATER MONITORING
REPORT**
Former Shell Service Station
22045 Barton Road
Grand Terrace, California
Site # 2004027

Dear Ms. Holst:


On behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), Delta Consultants (DELTA) has prepared this *First Quarter 2007 Groundwater Monitoring Report* for the above referenced site. The sampling activities at the site were conducted by Blaine Tech Services, Inc. under contract to SHELL and included the collection of groundwater samples and static water level measurements. A DELTA staff member under the supervision of a California Registered Civil Engineer or a California Professional Geologist performed the data evaluation.


This quarterly report represents DELTA's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

Ms. Lisa Holst
San Bernardino County Fire Department
April 6, 2007
Page 2

If you have any questions regarding this site, please contact either Ms. Emily Wong or Ms. Katherine Swords (DELTA Project Manager) at (626) 256-6662. The SHELL Project Manager is Mr. Randy Orlowski; Mr. Orlowski can be reached at (949) 360-1111.

Sincerely,
Delta Environmental Consultants, Inc.


Emily Wong
Project Engineer


Katherine Swords, P.E. C70071
Senior Project Engineer



Attachments: First Quarter 2007 Groundwater Monitoring Report

cc: Mr. Randy Orlowski, Shell Oil Products US
Mr. Fahim Tanios c/o Bleau, Fox & Fong
Mr. Larry Jacobs, Shell Oil Products US
Mr. Carl Bernhardt, Santa Ana Regional Water Quality Control Board

SHELL QUARTERLY GROUNDWATER MONITORING REPORT

Station Address:	22045 Barton Road, Grand Terrace
DELTA Project No.	PA220451X
SHELL Project Manager/Phone No.:	Randy Orłowski / (949) 360-1111
DELTA Site Manager/Phone No.:	Emily Wong / (626) 256-6662
Primary Agency/Regulatory ID No.:	San Bernardino County Fire Department (SBCFD) / Ms. Lisa Holst / ID No. 2004027
Other Agencies to Receive Copies:	Santa Ana Regional Water Quality Control Board (SARWQCB)

WORK PERFORMED THIS QUARTER (FIRST – 2007):

1. Performed quarterly groundwater monitoring and sampling. Submitted quarterly report.
2. Submitted *Feasibility Study and Remedial Action Plan* dated January 19, 2007 to SBCFD.
3. Received a letter dated January 26, 2007 from SBCFD conditionally approving the *Feasibility Study and Remedial Action Plan* dated January 19, 2007.
4. Coordinated trenching and soil vapor extraction (SVE) piping installation activities at the site.
5. Coordinated with property owner during the site redevelopment activities.
6. Communicated with SBCFD regarding property owner's pending developments.

WORK PROPOSED FOR NEXT QUARTER (SECOND – 2007):

1. Perform quarterly groundwater monitoring and sampling. Submit quarterly report.
2. Coordinate system design plans approval with City of Grand Terrace, Planning and Community Development.
3. Continue remedial compound installation activities.
4. Continue coordination with property owner during the site redevelopment activities.
5. Communicate with SBCFD regarding property owner's pending developments.

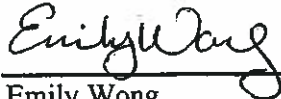
SHELL QUARTERLY GROUNDWATER MONITORING REPORT (CONT.)

Current Phase of Project:	<u>Groundwater Monitoring and Corrective Action Planning</u>
Site Use:	<u>Former Shell Service Station</u>
Site and Surrounding Description:	<u>Commercial</u>
Frequency of Sampling:	<u>Quarterly</u>
Frequency of Monitoring:	<u>Quarterly</u>
Is Separate Phase Hydrocarbon Present On-site (Well #'s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
SPH Recovered This Quarter :	<u>None</u>
Cumulative SPH Recovered to Date :	<u>None</u>
Cumulative Groundwater Recovered This Quarter:	<u>0 gallons (no purging this quarter)</u>
Receptors in Vicinity:	<u>Nearest active water supply well is located approximately 951 feet south of the site (City of Riverside Water Division Public Utilities Department State Well No. 02S/04W-05C01S).</u>
General Site Lithology:	<u>Well-graded and poorly-graded sands with gravel, silty sands, sandy silt, and silt</u>
Current Remediation Techniques:	<u>SVE installation in progress</u>
Permits for Discharge:	<u>NA</u>
Approximate Depth to Groundwater:	<u>148.55' to 150.84' below top of casing</u>
Groundwater Gradient	<u>South-southwest at approximately 0.011 ft/ft</u>
Current Agency Correspondence:	<u>January 26, 2007 (Appendix A)</u>
Date of Most Recent Work Plan:	<u>January 19, 2006</u>
Site History:	
Case Opening	<u>2004</u>
On-Site Assessment	<u>2002, 2004, 2005, 2006</u>
Off-Site Assessment	<u>NA</u>
Passive Remediation	<u>NA</u>
Active Remediation	<u>NA</u>
Closure	<u>NA</u>

SHELL QUARTERLY GROUNDWATER MONITORING REPORT (CONT.)

Discussion:

Groundwater conditions observed during the first quarter 2007 remained generally consistent with the previous quarters. Due to site construction activities during the first quarter monitoring event, groundwater wells MW-1 and MW-3 through MW-5 could not be purged.



Emily Wong
Site Manager (DELTA)

ATTACHED:

- Table 1 – Historical Groundwater Gauging and Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Hydrocarbon Distribution in Groundwater Map
- Appendix A – SBCFD Correspondence Letter dated January 26, 2007
- Appendix B – Field Data Sheets
- Appendix C – Field Procedures
- Appendix D – Laboratory Report and Chain-of-Custody Documents

TABLES

**TABLE 1
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL RESULTS
SHELL SERVICE STATION
22045 Barton Road, Grand Terrace, California**

DATE	DEPTH TO GW (ft)	SPH THICKN. (ft)	GW ELEV. (feet relative to MSL)	TPH-D (ug/L)	TPH-G (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL- BENZENE (ug/L)	TOTAL XYLENES (ug/L)	MTBE 8260 (ug/L)	TBA 8260 (ug/L)	DIPE 8260 (ug/L)	ETBE 8260 (ug/L)	TAME 8260 (ug/L)	ETHANOL 8260 (ug/L)	COMMENTS
MW-1																
Top of casing elevation (ft): 990.55																
9/20/2005	135.83	0.00	854.72													
9/22/2005	135.55	0.00	854.30													
9/30/2005	135.70	0.00	854.85													
12/16/2005	137.74	0.00	852.81	ND<500	ND<50	ND<0.50	ND<1.0	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
1/25/2006	137.63	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.50	0.00	854.05	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.92	0.00	852.63	ND<470	ND<50	ND<0.50	ND<0.50	0.63	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	148.13	0.00	842.42	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
1/31/2007	149.31	0.00	841.24	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-3																
Top of casing elevation (ft): 991.14																
9/20/2005	137.85	0.00	851.29													
9/30/2005	137.76	0.00	853.38							14	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	139.44	0.00	851.70	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.1	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	139.27	0.00	851.87	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	138.22	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	139.72	0.00	851.42	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
12/13/2006	149.60	0.00	841.54	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
1/31/2007	150.84	0.00	840.30	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-4																
Top of casing elevation (ft): 990.07																
9/20/2005	135.77	0.00	854.30													
9/30/2005	135.74	0.00	854.33													
12/16/2005	137.67	0.00	852.40	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
1/25/2006	137.48	0.00	852.59	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.43	0.00	853.64	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.70	0.00	852.37	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
12/13/2006	147.71	0.00	842.36	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
1/31/2007	149.09	0.00	840.98	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-5																
Top of casing elevation (ft): 989.48																
9/20/2005	135.24	0.00	854.24													
9/22/2005	135.01	0.00	854.47													
9/30/2005	135.19	0.00	854.29													
12/16/2005	137.00	0.00	852.48	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
1/25/2006	136.92	0.00	852.56	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	135.70	0.00	853.78	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.17	0.00	852.31	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
12/13/2006	147.29	0.00	842.19	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
1/31/2007	148.55	0.00	840.93	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
Notes:																
GW = groundwater																
SPH = separate-phase hydrocarbons																
MSL = mean sea level																
ND = not detected																
ug/L = parts per billion																
TPH-G = total petroleum hydrocarbons as gasoline analyzed using the California DHS LUFT Method																
TPH-D = total petroleum hydrocarbons as diesel analyzed using the California DHS LUFT Method																
Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B																
MTBE = methyl tertiary butyl ether analyzed using EPA Method 8260B																
TBA = tertiary butyl alcohol analyzed using EPA Method 8260B																
DIPE = diisopropyl ether analyzed using EPA Method 8260B																
ETBE = ethyl tertiary butyl ether analyzed using EPA Method 8260B																
TAME = tertiary amyl methyl ether analyzed using EPA Method 8260B																
Site survey dated May 30, 2006 provided by Water T. Foster P.L.S., CA.																

FIGURES

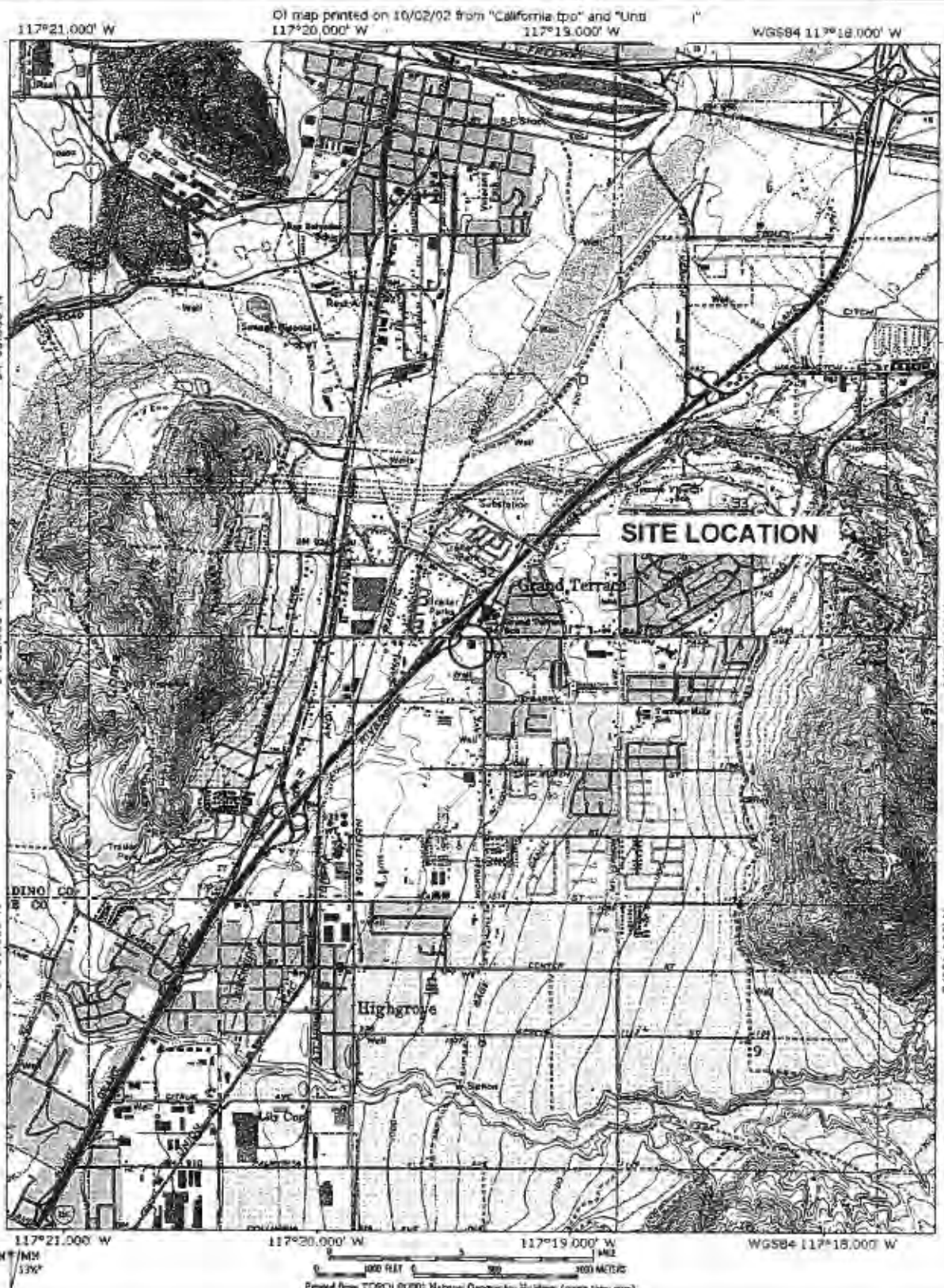
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APPROVED BY

CHECKED BY

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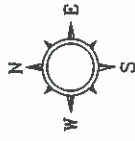
13/02/02



SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 1
SITE LOCATION MAP

22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA



LEGEND

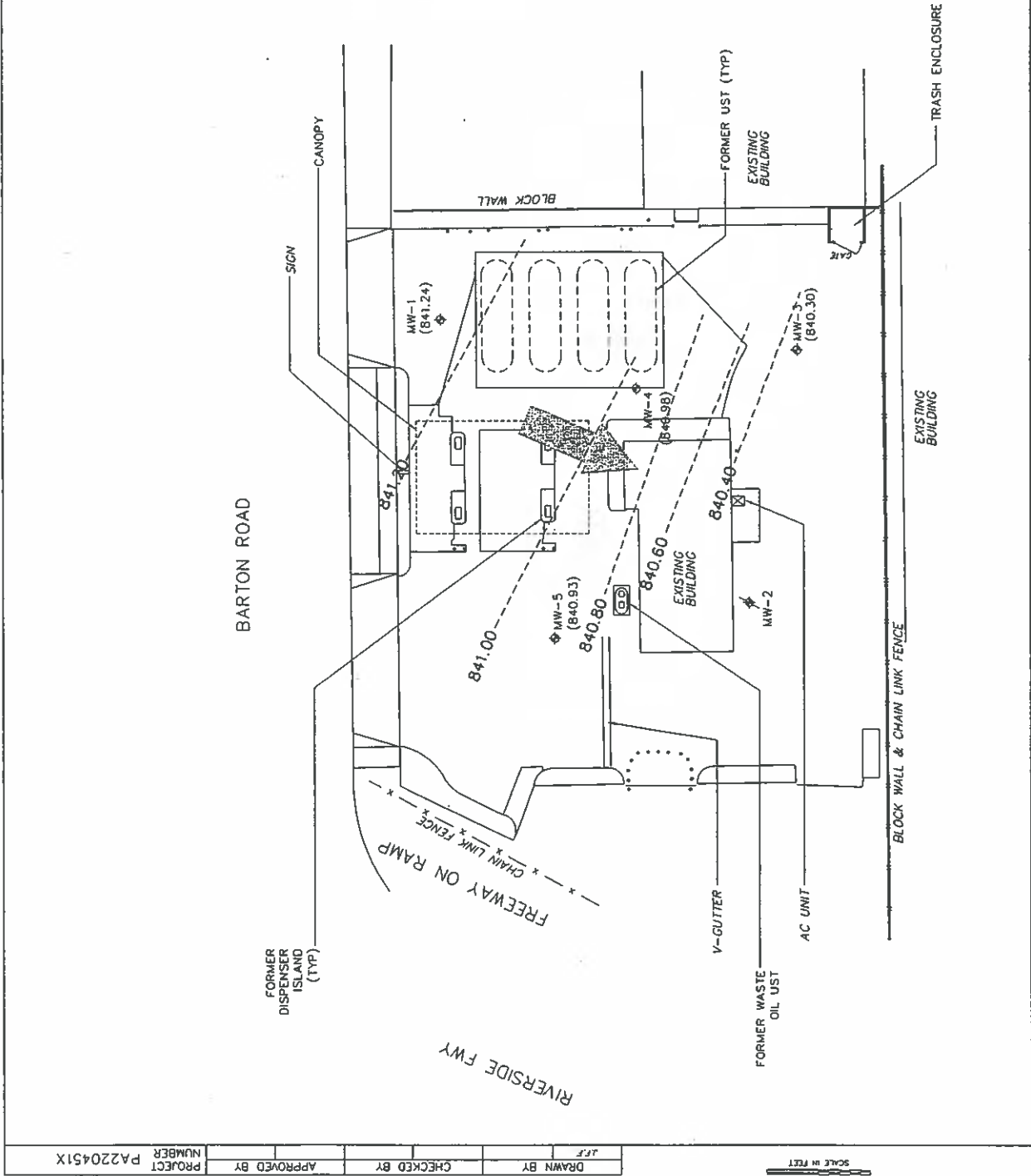
- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- (841.24) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (F1/MSL)
- 841.20 - - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (F1/MSL)
- APPROXIMATE GROUNDWATER DIRECTION

DELTA CONSULTANTS

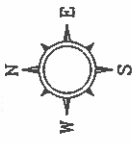
SHELL OIL PRODUCTS U.S.
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP
1/31/07
22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA



SCALE IN FEET	0	15	30
DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
			PA220451X



LEGEND

MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)

MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)

TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL

TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

MTBE METHYL TERT-BUTYL ETHER

µg/L MICROGRAMS PER LITER

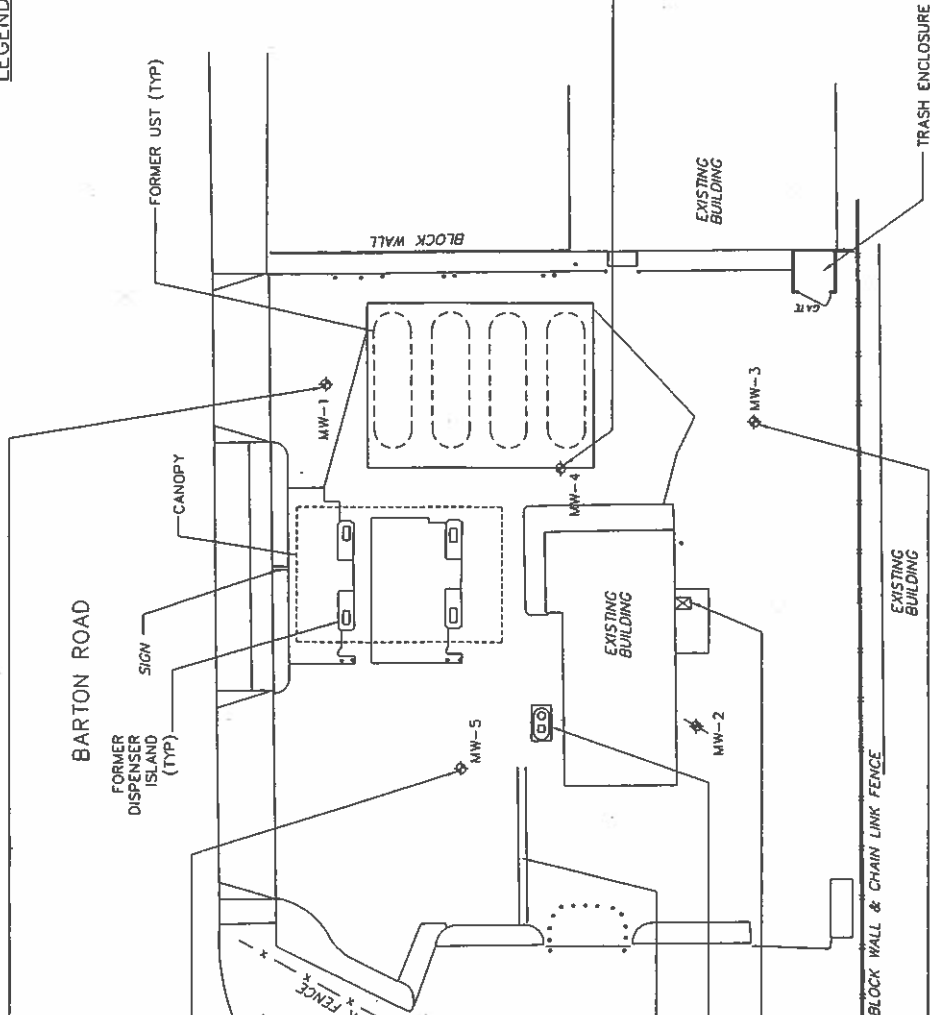
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MW-1				
DATE	TPH-g (µg/L)	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	63	ND<0.50	ND<1.0
12/13/06	ND<470	ND<50	ND<0.50	ND<1.0
1/31/07	ND<470	ND<50	ND<0.50	ND<1.0

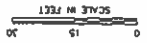
MW-5				
DATE	TPH-d (µg/L)	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0
12/13/06	ND<470	ND<50	ND<0.50	ND<1.0
1/31/07	ND<470	ND<50	ND<0.50	ND<1.0

MW-3				
DATE	TPH-g (µg/L)	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0
12/13/06	ND<470	ND<50	ND<0.50	ND<1.0
1/31/07	ND<470	ND<50	ND<0.50	ND<1.0

MW-4				
DATE	TPH-d (µg/L)	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)
04/20/06	ND<470	53	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0
12/13/06	ND<470	ND<50	ND<0.50	ND<1.0
1/31/07	ND<470	ND<50	ND<0.50	ND<1.0



PROJECT PA220451X
 DRAWN BY J.F.F.
 CHECKED BY
 APPROVED BY
 NUMBER



DELTA CONSULTANTS
 SHELL OIL PRODUCTS U.S.
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 3
 HYDROCARBON DISTRIBUTION
 IN GROUNDWATER MAP
 22045 BARTON ROAD
 GRAND TERRACE, CALIFORNIA

APPENDIX A

SBCFD CORRESPONDENCE LETTER DATED JANUARY 26, 2007



COUNTY OF ORANGE
HEALTH CARE AGENCY

REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

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APR 25 2007

JULIETTE A. POULSON, RN, MN
DIRECTOR

MIKE SPURGEON
DEPUTY AGENCY DIRECTOR
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SUITE 120
SANTA ANA, CA 92705-5611

TELEPHONE: (714) 433-6000
FAX: (714) 754-1732
E-MAIL: ehealth@ochca.com

April 24, 2007

Marvin Katz
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Subject: Work Plan for Additional Site Assessment dated April 11, 2007

Re: Shell Service Station
6022 Chapman Avenue
Garden Grove, CA
OCHCA Case #88UT188

Dear Mr. Katz:

The Orange County Local Oversight Program (OCLOP) has reviewed the above referenced document prepared by Wayne Perry, Inc. The work plan proposes the installation of two offsite groundwater monitoring wells, possible abandonment of paved over well B-19, if located, and transfer of one groundwater well from the neighboring ConocoPhillips service station. The work plan is approved with the following conditions:

1. The Work Plan for Additional Site Assessment was received after its due date. According to the OCLOP letter dated January 18, 2007, the work plan was due within 30 days of receipt of said letter. Allowing two weeks for mail service, a delivery date of February 1, 2007 is presumed the work plan was due by March 1, 2007.
2. Please note that the Corrective Action Plan (CAP) requested in the above referenced letter is also now **past due**. The CAP was due within 60 days after receipt of the OCLOP January 18, 2007 letter. Using the presumed delivery date of February 1, 2007, the CAP was due by April 1, 2007.
3. The screen intervals of the groundwater monitoring wells are to extend no more than approximately 10 feet into to the water table.
4. The OCLOP must be notified a minimum of 48 hours prior to initiating field activities.
5. Field activities must be completed within 60 days of receipt of this letter.

6. A report summarizing the field activities and results must be submitted to this Agency within 45 days of completion of said activities.
7. All required electronic data and reports in PDF format must be electronically submitted to Geotracker, as required by the California Code of Regulations, Title 23, Division 3, Chapter 16, Article 12.

If you have any questions, please contact me at (714) 433-6255.

Sincerely,



Denamarie Baker
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health

cc: Chris McDonald, Wayne Perry, Inc.
Carl Bernhardt, Santa Ana Regional Water Quality Control Board

January 19, 2007
 DELTA Project No. PA22045-1
 SAP No. 120906

RECEIVED
 KAT / H/LOS
 FEB 2 2007

Ms. Lisa Holst
 San Bernardino County Fire Department
 Hazardous Materials Division
 620 South E. Street
 San Bernardino, California 92415-0153

Re: **Feasibility Study and Remedial Action Plan**
Former Shell Service Station
22045 Barton Road
Grand Terrace, California



Dear Ms. Holst:

Delta Environmental Consultants, Inc. (DELTA), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), presents this *Feasibility Study and Remedial Action Plan (RAP)* for vadose zone remediation at the site referenced above (Figure 1). This assessment was conducted based on the results of DELTA's *Soil Vapor Extraction (SVE) Well Installation and Pilot Test Report* dated November 17, 2006. This plan presents an evaluation of remedial alternatives to mitigate the petroleum hydrocarbons identified in soil beneath the site in response to the San Bernardino County Fire Department (SBCFD) letter dated November 21, 2006 (Appendix A). All work has been performed under the supervision of a California-registered geologist and/or professional civil engineer.

SITE BACKGROUND

SITE DESCRIPTION

The subject site is a former Shell Service Station located on South Barton Road, adjacent to the Interstate 215 Freeway off-ramp, in the City of Grand Terrace, California (Figure 1). The site operated as a service station from 1965 until underground storage tank (UST) closure activities were performed in August and September 2004. The former service station consisted of four dispensers, three 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, associated product piping, and a station building (Figure 2). The site is currently unoccupied and fenced. The new property owner will be re-opening the site as a gasoline service station and is currently in the process of installing new USTs in the area of the former USTs.

Previous environmental activities at the site are summarized in the table below. Well and boring data are presented in Table 1. Recent soil borings and existing well locations are presented in Figure

2.Previous Environmental Activities

Previous environmental activities at the site are summarized in the table below. Well and boring data is presented in Table 1. Historical soil and groundwater analytical data are presented in Tables 2 and 3. Historical soil sampling locations and existing well locations are presented in Figures 2 and 3.

SUMMARY					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
HISTORICAL DATA FROM PREVIOUS ENVIRONMENTAL CASE: 1990 THROUGH CASE CLOSURE IN 1996					
9/1990	Unauthorized Release Report (URR)	Five soil borings (B-1 through B-5) adjacent to UST pit	9/18/90	W.W. Irwin (WWI)	Release of ~1000 gallons of regular leaded gasoline. SBCFD case #90137.
1/1991	Pre-UST Removal Soil Sampling	17 soil borings (B-6 through B-22) adjacent to dispenser islands and product lines.	7/9/91	WWI	Reportedly, no significant hydrocarbon-impact was encountered.
5/1991	UST Removal Activities		7/9/91	WWI	Four 6,000-gallon USTs removed and replaced with four 10,000-gallon USTs.
11/1991	Site Characterization	Four soil borings (A-1 through A-4), two converted to vapor wells (A-3 and A-4)	2/1992	Texaco Environmental Services	Total petroleum hydrocarbons as gasoline (TPH-g) was detected at a maximum concentration of 22,474 milligrams per kilogram (mg/kg) in soil samples collected in boring A-3.
12/1993 -11/1995	Vapor Extraction and Confirmation Soil Borings	Three confirmation soil borings (CB-1 through CB-3)	8/12/96	EnecoTech Southwest, Inc.	Removed ~16,995 pounds of hydrocarbons from subsurface.
11/1996	Vapor Well Abandonment		11/25/96	Kleinfelder, Inc.	Abandoned A-3 and A-4.
12/1996	SBCFD Letter		12/17/96	SBCFD	No further action required.

SUMMARY (CONT.)					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
HISTORICAL DATA FROM PREVIOUS ENVIRONMENTAL CASE: 2001 THROUGH CASE CLOSURE IN JUNE 2001					
2/2001	Waste Oil UST Removal	One soil sample collected from beneath UST	6/4/01	WGR Southwest	One 550-gallon tank removed.
6/2001	SBCFD Letter		12/17/96	SBCFD	No further action required.
HISTORICAL DATA FROM RECENT ENVIRONMENTAL ACTIVITIES: 2001 THROUGH 2004					
12/2001	GRASP Site Assessment	Five soil borings (SB-1 through SB-5)	1/28/02	IT Corporation (IT)	SB-2 boring converted to monitoring well MW-2.
8/5/2002	GRASP Groundwater Monitoring		10/31/02	KHM Environmental Management, Inc. (KHM)	Dry well.
11/2002	GRASP Tier I Site Assessment	One exploratory soil boring (SB-1)	5/5/03	KHM	Based on low vapor readings, no soil samples were retained for analysis.
5/2003	SBCFD Letter		5/9/03	SBCFD	No further action required.
6/2004	Phase I Environmental Site Assessment		6/23/04	Artemis	
8/2004	UST Removal	17 soil samples from beneath USTs, dispensers, and piping	10/12/04	DELTA	Four 10,000-gallon USTs, four product dispensers, and product piping removed.
9/2004	UST Closure Report and Limited Over-Excavation Results	Nine confirmation soil samples from beneath USTs, dispensers, and piping	10/12/04	DELTA	184 tons of soil removed.
9/2004	URR		9/14/04	DELTA	
10/28/04	SBCFD Letter		10/28/04	SBCFD	Request Work Plan to determine extent of hydrocarbon contamination and depth to groundwater.

SUMMARY (CONT.)					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
2/2005	Work Plan for Site Assessment Activities		2/18/05	DELTA	Proposed exploratory soil borings (B-1 through B-8) to groundwater.
3/8/05	SBCFD Letter		3/8/05	SBCFD	Conditionally approved Work Plan.
6/2005	Work Plan for Well Abandonment		6/24/05	DELTA	Propose abandonment of Well MW-2.
7/2005	Addendum to Work Plan for Site Assessment		7/1/05	DELTA	Proposed four on-site groundwater monitoring wells (MW-1, MW-3, MW-4, and MW-6) and one off-site groundwater monitoring well (MW-5).
7/12/05	SBCFD Letter		7/12/05	SBCFD	Conditionally approving Work Plan; request additional boring near B-2 and provision for soil remediation.
8/2005	Well Abandonment		11/7/05	DELTA	Abandoned Well MW-2 (historically dry).
8/2005	Confirmation of Verbal Approval: Relocation of Proposed Well MW-4		8/15/05	DELTA	Well MW-4 relocated, will serve to define the vertical extent of hydrocarbon impact detected at previous boring B-2.
5/2005 and 8/2005	Site Assessment and Monitoring Well Installation Report	Six soil borings (B-1 through B-6) and four groundwater monitoring wells (MW-1, MW-3 through MW-5)	11/11/05	DELTA	Per 9/29/05 communication with Lisa Holst (SBCFD), off-site well not completed as part of this assessment. SBCFD will evaluate for off-site well.
11/17/05	SBCFD Letter		11/17/05	SBCFD	Request quarterly groundwater monitoring and work plan for soil remediation pilot testing.
12/2005	Start Quarterly Groundwater Monitoring		Various	DELTA	Monitored wells MW-1, MW-3, MW-4, and MW-5
1/2006	Work Plan for SVE Well Installation and Pilot Test		1/16/06	DELTA	Proposed the installation of four on-site SVE wells (SVE-1 through SVE-4)

SUMMARY (CONT.)					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
3/24/06	SBCFD Letter		3/24/06	SBCFD	Requested Addendum to Work Plan to consider replacement and modified drilling depth of SVE wells.
5/2006	Addendum to Work Plan for SVE Well Installation and Pilot Test		5/18/06	DELTA	Addressing SBCFD concerns, SVE-1 will be dual nested and will drill past 100 feet below ground surface (bgs) to determine methyl tert-butyl ether (MTBE) concentrations.
8/2006	Addendum to Work Plan for SVE Well Installation and Pilot Test		8/7/05	DELTA	Schedule for work action and proposed revised SVE well locations (SVE-1 and SVE-2)
11/17/05	SBCFD Letter		11/17/05	SBCFD	Request quarterly groundwater monitoring and work plan for soil remediation pilot testing.
8/2006	SBCFD Letter		8/14/2006	SBCFD	Conditionally approved Addendum to Work Plan and schedule.
11/17/06	Results of SVE Well Installation and Pilot Test Activities	Installed five SVE wells (SVE-1A, SVE-1B and SVE-3 through SVE-4). Vapor samples collected from wells (SVE-1A, SVE-1B, SVE-4 and MW-4	11/17/06	DELTA	Results of SVE Well Installation and Pilot Test Activities
11/21/06	SBCFD Letter		11/21/06	SBCFD	Requested a feasibility study and RAP

REGIONAL GEOLOGY AND HYDROGEOLOGY

The site lies within the Upper Santa Ana River Valley and is underlain by the older alluvial fan deposits of sand and gravel of early Pleistocene-age. The area is bounded to the north by the Santa Ana River, the La Loma Hills to the West, the Blue Mountains to the East, and the Box Springs Mountains to the south. These surrounding hills and mountains are composed of impermeable quartz diorite to granodiorite, part of the large batholith characteristic of the Peninsular Ranges (Dibblee, 2003).

The site appears to be located in the Riverside-Arlington Sub-basin underlying part of the Santa Ana River Valley. The sub-basin is bounded by the impermeable plutonic rocks in all directions and the Rialto-Colton fault in the northeast. The groundwater basin occurs mostly in the alluvial deposits of Quaternary age deposited by the Santa Ana River and its tributaries. The Rialto-Colton fault provides a groundwater barrier flow along its length and separates the sub-basin from the Rialto-Colton Sub-basin. Recharge occurs by infiltration from the Santa Ana River flow, from the nearby Chino Sub-basin, and deep percolation of precipitation.

WATER WELL SURVEY

The nearest identified active water supply well is State Well No. 02S/04W-05C01S. The well is located approximately 951 feet south of the site and is owned by the City of Riverside Water Division Public Utilities Department (CRWDPUD). Average static groundwater in this well is reported at 156 feet below ground surface (bgs).

Two additional active public wells owned by the CRWDPUD have been identified by DELTA and field verified within a one-mile radius of the site. Van Buren Well No. 01 (State Well No. 02S/04W-05E01S) was field verified as being located 2,707 feet southwest of the site. Van Buren Well No. 02 (State Well No. 02S/04W-05E02S) was field verified as being located 3,210 feet southwest of the site. Depth to groundwater for the two wells was reported on April 1, 1991 at 130.8 and 151.2 feet bgs, respectively (Texaco, 1992).

Three municipal wells owned by the Riverside Highland Water Company (RHWC) have been identified and field verified by DELTA within a half-mile radius of the site. Well RN 6 (State Well No. 02S/04W-05F03S) was field verified as being located 2,021 feet south of the site. Linda Vista Well No. 01 (State Well No. 01S/04W-32M01S) was field verified as being located 2,330 feet north of the site. Linda Vista Well No. 03 (State Well No. 01S/04W-32M04S) was field verified as being located 2,562 feet northwest of the site. The current status and depth to groundwater information of these wells is not known. An additional well owned by the RHWC, Linda Vista Well No. 02 (State Well No. 01S/04W-32M00S) has been identified as being located approximately located 2,835 feet north of the site.

SUBSURFACE CONDITIONS

The site is generally underlain by well-graded and poorly-graded sands with gravel, silty sands, sandy silt, and silt to the total depth explored of approximately 170 feet bgs. Static depth to groundwater levels, as measured during fourth quarter 2006 groundwater monitoring activities on December 13, 2006 ranged from 147.29 to 149.60 feet bgs. The groundwater gradient beneath the site was towards the south-southwest.

HYDROCARBON DISTRIBUTION IN SOIL

Previous environmental activities have identified petroleum hydrocarbon and fuel oxygenate-impact to soil beneath the subject site.

During site assessment and well installation activities in May 2005, the highest concentrations of petroleum hydrocarbons were generally detected in soil samples collected from the 35 to 70-foot sample interval in boring B-2, with the exception of sample MW-5d35. Well MW-4 was drilled adjacent to B-2 to provide further vertical definition in that area. With the exception of total petroleum hydrocarbons as diesel (TPH-d), petroleum hydrocarbons were not detected in soil samples collected from depths greater than 105 feet bgs in Well MW-4.

The highest concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX compounds) were generally detected in soil samples collected from borings B-1, B-2, and B-4, located within the former UST pit. BTEX compounds were detected at maximum concentrations of 1.5 mg/kg, 90 mg/kg, 49 mg/kg, and 317 mg/kg in sample B-2d55, respectively. Benzene and toluene were detected only in borings B-1, B-2, and B-4, located within the former UST pit, at depths at and above 70 feet bgs and with a minimum of 30 feet of non-detect soil samples collected beneath the deepest detection. Ethyl-benzene and total-xylenes were detected only in borings B-1, B-2, and B-4, located within the former UST pit, and Well MW-5, located west of the former dispensers, and at depths above 85 feet bgs. However, BTEX compounds were not detected in soil samples collected from boring B-3, drilled at the eastern edge of the UST pit.

MTBE and tert-butyl alcohol (TBA) were detected at maximum concentrations of 9.5 mg/kg (B-2d80) and 20 mg/kg (B-1d30), respectively. Tert amyl methyl ether (TAME) was detected in four soil samples analyzed at concentrations ranging from 0.012 (B-6d40) to 0.025 mg/kg (B-1d65). Di-isopropyl ether (DIPE), ethyl tert butyl ether (ETBE), and ethanol were not detected in any of the soil samples analyzed.

Fuel oxygenates were not detected in any soil sample collected from boring B-5 and Well MW-3, drilled to the south of the former USTs, and were not detected in any boring or well location below 100 feet bgs (in boring and well locations that extended to depths greater than 100 feet).

HYDROCARBON DISTRIBUTION IN GROUNDWATER

During the fourth quarter groundwater monitoring and sampling activities on December 13, 2006, TPH-g, TPH-d, benzene, toluene, ethylbenzene, xylenes, fuel oxygenates and ethanol were not detected in any groundwater sample collected.

SVE PILOT TEST FINDINGS

DELTA conducted SVE pilot testing activities from October 10, 2006 to October 13, 2006. SVE step tests were conducted on wells SVE-1A, SVE-1B, SVE-4 and MW-4. An extended test was conducted on well SVE-4. An average vapor flow rate of 168.3 standard cubic feet per minute (scfm) was maintained at 9.73 inches of mercury (Hg) during the extended test. TPH-g mass removal rates from well SVE-4 were estimated to be 97.16 pounds per day (lbs/day). MTBE mass removal rates from well SVE-4 were estimated to be 3.18 lbs/day. Benzene mass removal rates from well SVE-4 were estimated to be 1.03 lbs/day. The radius of influence (ROI) was calculated to be approximately 118 feet and 180 feet during the SVE Step Tests on well SVE-1A and SVE-1B, respectively. The ROI was calculated to be greater than 63 feet during the SVE Step Test on well MW-4. The ROI was calculated to be approximately 71 feet during the SVE Extended Test on Well SVE-4.

The summaries of the Pilot Test field data and Pilot Test results data are provided in Tables 4 through 11

REMEDIAL ACTION PLAN

INTRODUCTION

In the following section, DELTA has reviewed the currently applicable remedial approaches for addressing the fuel hydrocarbon and oxygenate impacts identified in the vadose zone beneath the site. Based on DELTA's evaluation of the site conditions and the following evaluation of remedial alternatives, DELTA recommends SVE be conducted at this site.

APPLICABLE CLEANUP LEVELS AND POTENTIAL EXPOSURE PATHWAYS

Based on known site conditions, there are two potentially complete exposure pathways for the subject site: ingestion of impacted groundwater and vapor inhalation due to impacted soil and groundwater beneath the site. The groundwater ingestion pathway is not currently complete, but could become complete if TPH-g, MTBE or TBA migrates further off-site and impacts water production wells in the site vicinity. The remediation of the vadose zone will reduce the potential for further impacts to groundwater, thus limiting the potential for the exposure pathway to become complete. Other exposure pathways that were evaluated, but not considered complete include:

- **Ingestion of Soil and Dust.** Direct contact with impacted soil is unlikely to occur because of the depth of the impacted soil. The potential for soil/dust ingestion may exist during any future construction activities if the activities extend to 35 feet bgs. Risk associated with these activities can be managed through implementation of a health and safety plan to include vapor and dust monitoring and control measures.
- **Dermal Contact with Soils.** Direct contact with impacted soil is unlikely to occur because of the depth of the impacted soil. The potential for soil/dust dermal contact may exist during any future construction activities if the activities extend to 35 feet bgs. Risk associated with these activities can be managed through implementation of a health and safety plan to include vapor and dust monitoring and control measures.

Soil cleanup levels were developed to reduce the risk for future commercial occupants due to the potential for exposure to hydrocarbon vapors migrating through the building floor from impacted soil below the site. Appropriate soil cleanup goals were selected from the EPA Region 9's Preliminary Remediation Goals. These soil cleanup goals are presented in the table below:

Applicable Soil Cleanup Levels -- Future Use as Commercial Retail Development	
Constituent of Concern	Target Concentration (mg/kg)
MTBE	36 – California Modified PRG, Cancer Risk (10^{-6})
TBA	NA – No vapor inhalation toxicity values available
Benzene	1.3 – EPA Region 9 PRG, Cancer Risk (10^{-6})
Toluene	520 – EPA Region 9 PRG, Soil Saturation Limit
Ethyl benzene	20 – EPA Region 9 PRG, Cancer Risk (10^{-6})
Xylenes	420 – EPA Region 9 PRG, Soil Saturation Limit

REMEDICATION ALTERNATIVES

Each remedial action was reviewed for technical feasibility based on the technical potential of implementing the reviewed action, economic feasibility based on the cost to implement the reviewed action, and regulatory acceptance of the reviewed action. These components are defined below:

- **Technical Feasibility** is based on the ease of implementation, availability of equipment and applicability of the technology to the site-specific parameters. Excellent technical feasibility means that the remedial action is easily implemented, with readily available equipment and applies directly to the constituents to be remediated. A poor feasibility means that equipment is not readily available, the process is difficult, or in the experimental stages of development.
- **Economic Feasibility** was rated on the basis of excellent, good, fair, and poor. Excellent being low in cost and poor being extremely costly for implementation of the remedial action.

- **Regulatory Feasibility** is based on past experience of regulatory acceptance of the remedial method reviewed as it applies to the specific parameters of the site. An excellent rating means that it has had a high regulatory acceptance and is currently in use on similar sites. A poor regulatory rating means that the remedial method under review is unlikely to be accepted by regulators, is not currently being utilized on similar sites, or is not applicable to the parameters of the site.

The following remedial actions were evaluated for soil remediation feasibility at the site:

- No Action;
- Natural Attenuation/Long Term Monitoring;
- Excavation;
- In-Situ Bioremediation; and
- SVE.

The following table presents a list of remedial alternatives that were considered for this site, along with the level of technical, economic, and regulatory feasibility:

Remedial Alternative	Technical Feasibility	Economic Feasibility	Regulatory Feasibility
No Action	Good	Excellent	Poor
Natural Attenuation / Long Term Monitoring	Good	Excellent	Poor
Excavation	Poor	Poor	Fair
In-Situ Bioremediation	Fair	Good	Fair
Soil Vapor Extraction	Good	Good	Excellent

EVALUATION RESULTS

No Action - No action is technically and economically feasible; although, it is not feasible from a regulatory stand point due to the concentrations of TPH-g, benzene, toluene, ethylbenzene and xylenes (BTEX compounds) and MTBE present in the soil. The same logic applies to the alternative of **natural attenuation/long term monitoring**.

Excavation - The third option, excavation, is feasible from a regulatory standpoint but has both technical and economic limitations. Technically, excavation is not feasible because of the depth of the excavation. This option is also impractical from an economic stand point for the same reasons.

In-Situ Bioremediation – The use of in-situ bioremediation is low in cost, giving it a good economic feasibility. However, issues with the length of time to remediate, the distribution of subsurface nutrients, and limited or no groundwater containment give this option only a fair technical feasibility. Because of the fair technical feasibility, it is unlikely that the regulatory issues could be easily, resolved resulting in only fair regulatory feasibility.

Soil Vapor Extraction – The SVE option has good technical feasibility with good source area removal rates, as shown by the SVE pilot test results. This option has good economic feasibility based on construction and operating costs. The regulatory familiarity with this remedial technology and results of the pilot test make this option excellent for regulatory feasibility.

The most desirable of the options is **SVE**. This option was rated good for economic and technical feasibility and excellent for regulatory feasibility.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the SVE pilot tests, SVE has been shown to be an effective remedial approach for this site. Vapor extraction has been proven effective for TPH-g, benzene and MTBE mass removal from the vadose zone. In addition, the percentage of carbon dioxide in the subsurface soil vapors indicate that bioremediation is occurring in the subsurface. A SVE system will draw air into the subsurface, replenishing the supply of oxygen and enhancing the naturally occurring bioremediation already taking place. The system will operate with a design vacuum of 5 inches of Hg and flow rate of 250 scfm. All of the existing on-site SVE wells (SVE-1 through SVE-4) will be connected to the system to extract vapors. Multiple extraction wells will allow for flexibility in operation and concentration of the remediation efforts on those areas with the highest concentrations of TPH-g and MTBE. This ability to focus on areas with the highest mass, as the remediation progresses, will help in optimizing system operation and expediting remediation of the site.

TREATMENT OF WASTE STREAMS

The vapor extraction system design will consist of a maximum of 250 scfm Electric Catalytic Oxidizer (ECAT) portable unit. After concentrations of TPH-g have dropped below 500 parts per million (ppm), the unit may be switched with a vacuum pump connected to carbon filters, if it becomes economically favorable. The ECAT will operate utilizing a various site locations permit issued by the South Coast Air Quality Management District (SCAQMD). A typical schematic of the two systems are shown in Figures 5 and 6.

PROGRESS MONITORING AND SAMPLING

Progress of the remediation system will be monitored by sampling the system influent soil vapors. In addition, individual extraction wells will be monitored in an effort to focus the operation of the system on those wells removing the highest mass of hydrocarbons from the subsurface. The system will be visited on a weekly basis for routine maintenance and monitoring. The system vapor influent and exhaust will be monitored with a photoionization (PID) to provide an indication of general trends in vapor concentrations.

Soil vapor samples will be collected from each SVE well connected to the system on a quarterly basis for analysis at a California certified lab. Soil vapor samples from the influent and effluent of the system will be collected on a monthly basis or at the frequency required by the SCAQMD permit.

Soil vapor sampling will consist of the collection of soil vapor samples in Tedlar bags. The Tedlar bags will be kept in an opaque container until delivered to the laboratory. Samples will be analyzed for TPH-g using EPA Method TO-3, BTEX compounds and fuel oxygenates using EPA Method TO-15, and nitrogen, methane, carbon dioxide, carbon monoxide, and oxygen using ASTM Method D-1946 ("Fixed Gas Analysis").

PROGRESS EVALUATION

After the influent concentrations for soil vapor have approached an asymptotic reduction for a period of two quarters, the system will be tested for rebound of constituent concentrations. Rebound testing will consist of a two-week period of shut-down. Prior to shut-down of the system, soil vapor samples will be collected from the extraction points. At the end of the period, the system will be restarted and resampled. The results of the samples from before the shut-down will be compared with those taken upon restart to determine if concentrations have rebounded in the soil vapors. If samples have rebounded less than 50 percent or samples are below 100 ppmv the system will be turned off again for an additional two weeks and retested. If no rebound of greater than 50 percent has occurred or concentrations are below 100 ppmv, the system will be deemed to have reached an asymptotic level and soil confirmation samples may be collected to verify the remediation of the site. If the system has rebounded more than 50 percent or samples are greater than 100 ppmv, the system will remain on for a minimum of one month before being retested.

PROGRESS REPORTS

Quarterly progress reports will be submitted as part of the update to the quarterly groundwater monitoring report. The progress reports will include the following items:

- The percentage of time the system has operated;
- The flow rate of vapor and;
- The mass of hydrocarbons removed as soil vapor.

CONFIRMATION SAMPLING

Once asymptotic reduction of hydrocarbon concentrations has been reached, soil confirmation samples will be collected from selected locations to be determined and presented in a work plan, submitted under separate cover at a later date.

IMPLEMENTATION SCHEDULE

Design and implementation of the system will commence as soon as approval is received from the SBCFD. Activities performed by DELTA under this scope of work will be supervised by either a state of California registered geologist or civil engineer, and will be conducted consistent with applicable agency standards. The recommendations contained in this report represent DELTA's professional opinions based upon the currently


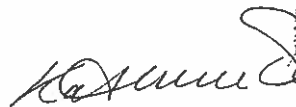
available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this site assessment report, please call Ms. Katherine Swords (DELTA) or Ms. Monica Ortega (DELTA Project Manager) at (626) 256-6662. The SHELL Project Manager is Mr. Randy Orłowski. Mr. Orłowski can be reached at (949) 360-1111.

Sincerely,
Delta Environmental Consultants, Inc.



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Senior Project Engineer

cc: Mr. Randy Orłowski, Shell Oil Products US
Mr. Carl Bernhardt, SARWQCB
Mr. Fahim Tanios c/o Bleau, Fox & Fong

ATTACHMENTS:

- Table 1 – Well/Boring Data
- Table 2 – Soil Analytical Data
- Table 3 – Historical Groundwater Gauging and Analytical Results
- Table 4 – Summary of SVE Step Test Monitoring Data (SVE-1A)
- Table 5 – Summary of SVE Step Test Monitoring Data (SVE-1B)
- Table 6 – Summary of SVE Step Test Monitoring Data (SVE-4)
- Table 7 – Summary of SVE Step Test Monitoring Data (MW-4)
- Table 8 – Summary of SVE Extended Test Monitoring Data (SVE-4)
- Table 9 – Summary of SVE Analytical Data (ASTM D-1946)
- Table 10 – Summary of SVE Analytical Data (EPA TO-3 and TO-15)
- Table 11 – Summary of Soil Vapor Mass Removal Rates
- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Figure 3 – Hydrocarbon Distribution in Soil Map
- Figure 4 – Hydrocarbon Distribution in Groundwater Map
- Figure 5 – Process Flow Diagram – SVE System (With Carbon)
- Figure 6 – Process Flow Diagram – SVE System (With ECAT)
- Appendix A – SBCFD Letter dated November 21, 2006

TABLES

Table 1
Well/Boring Data
Former Shell Service Station
22045 Barton Road, Grand Terrace, California

Name	Type	Date Drilled/ Installed	Casing Elevation (ft AMSL)	Total Depth (ft)	Soil Sample Incr. (ft)	Soil Sample Depth (ft)	Depth (ft)	First GW Elev. (ft AMSL)	Screen Diameter (in.)	Screen Depth (ft)	Top Bottom	Comments
SB-1	Boring	12/3/2001	-	81	5	65, 71, 75, 80	-	-	-	-	-	IT
MW-2	GRASP Well	11/29/2001	-	112	5	65, 70, 75, 80	-	-	4	54	78	Abandoned 8/29/2005
SB-3	Boring	11/30/2001	-	82	5	65, 70, 75, 80	-	-	-	-	-	IT
SB-4	Boring	12/3/2001	-	81	5	51, 61, 71, 80	-	-	-	-	-	IT
SB-5	Boring	11/30/2001	-	82	5	65, 70, 75, 80	-	-	-	-	-	IT
SB-1A	Boring	11/6/2002	-	135	5; 10; 5	10-70; 70-100; 100-135	-	-	-	-	-	KHM, GRASP
B-1	Boring	5/9/2005	-	100	5	10-100	-	-	-	-	-	DELTA
B-2	Boring	5/9/2005	-	100	5	10-100	-	-	-	-	-	DELTA
B-3	Boring	5/10/2005	-	90	5	10-90	-	-	-	-	-	DELTA
B-4	Boring	5/10/2005	-	85	5	10-85	-	-	-	-	-	DELTA
B-5	Boring	5/11/2005	-	70	5	10-70	-	-	-	-	-	DELTA
B-6	Boring	5/11/2005	-	80	5	10-80	-	-	-	-	-	DELTA
MW-1	GWM Well	8/16-17/2005	990.55	170	5	10-170	135	855.55	0.010	120	170	DELTA
MW-3	GWM Well	8/8-10/2005	991.14	170	5	10-170	140	851.14	0.010	120	170	DELTA
MW-4	GWM Well	8/11-12 & 15/2005	990.07	170	5	100-170	135	855.07	0.010	120	170	DELTA
MW-5	GWM Well	8/18-19 & 22/2005	989.48	170	5	10-170	135	854.48	0.010	120	170	DELTA
SVE-1A	Dual Nested SVE Well	10/4/2006	-	120	5	85-120	-	-	0.010	40	65	DELTA
SVE-1B	Dual Nested SVE Well	10/4/2006	-	120	5	85-120	-	-	0.010	80	105	DELTA
SVE-2	SVE Well	10/2/2006	-	65	-	-	-	-	0.010	40	65	DELTA
SVE-3	SVE Well	10/3/2006	-	65	-	-	-	-	0.010	40	65	DELTA
SVE-4	SVE Well	10/2/2006	-	65	-	-	-	-	0.010	40	65	DELTA

Notes:

- = not applicable
- GWM = Groundwater Monitoring
- GRASP = Groundwater Assessment Program
- SVE = Soil Vapor Extraction
- IT = IT Group, Inc.
- KHM = KHM Environmental Management, Inc.
- DELTA = Delta Environmental Consultants, Inc.

Table 2
Soil Analytical Data
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	TPH-g mg/kg	TPH-d mg/kg	Benzene mg/kg	Toluene mg/kg	Xylenes mg/kg	Total mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	COMMENTS
SVE-1	10/04/06												
85	ND<0.20	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.0020	0.19	0.21	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
90	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.019	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
95	ND<0.18	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0031	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
100	ND<0.19	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0059	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
105	ND<0.20	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.0020	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
110	ND<0.20	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.0020	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
115	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
120	ND<0.20	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.0020	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	

ND - Not detected above limit noted
 TPH-g - Total Petroleum Hydrocarbons as gasoline
 TPH-d - Total Petroleum Hydrocarbons as diesel
 MTBE - Methyl tert-butyl ether
 TBA - Tert-butyl alcohol
 ETBE - Ethyl tert-butyl ether
 DIPE - Di-isopropyl ether
 TAME - Tert-amyl methyl ether

TPH-g and TPH-d analyzed using California Department of Health Services (DHS) Leaking Underground Fuel Tank (LUFT) Method.

Table 2
Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	BBH-1 mg/kg	TRH-1 mg/kg	Benzene mg/kg	Ethylbenzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MIBK mg/kg	MBA mg/kg	DIP mg/kg	DBP mg/kg	NAME mg/kg	Diethyltoluene mg/kg	COMMENTS
B-1	05/09/05												
20	0.63*	5.3	ND	ND	ND	ND	0.23	13	ND	ND	ND	ND	ND
25	ND	ND	ND	ND	ND	ND	0.42	12	ND	ND	ND	ND	ND
30	0.51*	ND	ND	ND	ND	ND	0.0064	20	ND	ND	ND	ND	ND
35	0.92*	6.2	ND	ND	ND	ND	1.1	19	ND	ND	ND	ND	ND
40	2.1	ND	0.057	0.015	0.18	0.108	1.1	0.22	ND	ND	ND	ND	ND
45	0.88*	ND	ND	ND	0.40	0.44	4.4	ND	ND	ND	ND	ND	ND
50	0.58*	ND	ND	ND	0.15	0.18	2.3	ND	ND	ND	ND	ND	ND
55	1.0*	6.1	ND	0.013	0.026	0.119	1.2	0.53	ND	ND	ND	ND	ND
60	5.8	ND	ND	ND	0.66	0.56	5.8	ND	ND	ND	ND	ND	ND
65	2.2	ND	0.046	0.037	0.30	0.229	2.5	0.56	ND	ND	ND	ND	0.025
70	2.0	ND	0.14	0.16	0.38	0.88	2.2	0.068	ND	ND	ND	ND	0.023
75	2.0	7.5	ND	ND	0.21	0.21	3.3	ND	ND	ND	ND	ND	ND
80	1.3	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND
85	0.72	ND	ND	ND	0.14	0.20	4.8	ND	ND	ND	ND	ND	ND
90	0.56	ND	ND	ND	ND	ND	0.72	0.22	ND	ND	ND	ND	ND
95	ND	ND	ND	ND	ND	ND	0.26	0.097	ND	ND	ND	ND	ND
100	ND	ND	ND	ND	ND	ND	0.38	0.13	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	MPH, mg/kg	MPHE, mg/kg	Benzene, mg/kg	Ethylbenzene, mg/kg	Toluene, mg/kg	Total Xylenes, mg/kg	MIBK, mg/kg	TBA, mg/kg	DDP, mg/kg	DBP, mg/kg	PAH, mg/kg	Ethanol, mg/kg	Comments
B-2	05/09/05												
20	ND	6.0	ND	ND	ND	0.0079	0.26	3.3	ND	ND	ND	ND	ND
25	ND	6.7	ND	ND	ND	0.0061	0.13	3.8	ND	ND	ND	ND	ND
30	0.50*	36	ND	0.0083	ND	0.044	0.91	1.8	ND	ND	ND	ND	ND
35	37	140	0.11	1.6	1.6	12.4	3.5	0.60	ND	ND	0.015	ND	ND
40	370	330	ND	6.9	14	52	2.4	ND	ND	ND	ND	ND	ND
45	1500	960	ND	37	68	272	2.2	ND	ND	ND	ND	ND	ND
50	1400	680	ND	27	54	198	4.0	ND	ND	ND	ND	ND	ND
55	2300	2000	1.5	49	90	317	2.4	ND	ND	ND	ND	ND	ND
60	870	600	0.60	10	24	72	1.5	ND	ND	ND	ND	ND	ND
65	1800	720	0.80	27	55	196	2.7	ND	ND	ND	ND	ND	ND
70	1300	760	0.48	20	36	140	2.1	ND	ND	ND	ND	ND	ND
75	19	19	ND	ND	0.22	0.19	3.1	ND	ND	ND	ND	ND	ND
80	13	16	ND	ND	0.73	0.64	9.5	ND	ND	ND	ND	ND	ND
85	1.1	5.4	ND	ND	0.24	0.19	4.9	ND	ND	ND	ND	ND	ND
90	0.52	6.0	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND
95	1.7	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND
100	1.8	ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	TPH-g	TPH-d	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MIBE	TBA	PIPE	ETBE	THME	Ethanol	COMMENTS
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
B-3	05/10/05												
10	ND	ND	ND	ND	ND	ND	0.030	ND	ND	ND	ND	ND	ND
15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	ND	ND	ND	ND	ND	ND	0.021	ND	ND	ND	ND	ND	ND
25	ND	ND	ND	ND	ND	ND	0.096	ND	ND	ND	ND	ND	ND
30	ND	ND	ND	ND	ND	ND	0.74	0.066	ND	ND	ND	ND	ND
35	ND	ND	ND	ND	ND	ND	0.37	0.28	ND	ND	ND	ND	ND
40	ND	ND	ND	ND	ND	ND	0.21	0.25	ND	ND	ND	ND	ND
45	ND	ND	ND	ND	ND	ND	0.036	0.072	ND	ND	ND	ND	ND
50	ND	ND	ND	ND	ND	ND	0.19	0.22	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	0.27	0.30	ND	ND	ND	ND	ND
60	7.1*	ND	ND	ND	ND	ND	0.83	0.35	ND	ND	ND	ND	ND
65	ND	ND	ND	ND	ND	ND	0.23	0.17	ND	ND	ND	ND	ND
70	ND	ND	ND	ND	ND	ND	0.14	0.32	ND	ND	ND	ND	ND
75	ND	ND	ND	ND	ND	ND	0.17	0.059	ND	ND	ND	ND	ND
80	ND	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND
85	ND	ND	ND	ND	ND	ND	0.22	0.084	ND	ND	ND	ND	ND
90	ND	ND	ND	ND	ND	ND	0.070	ND	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	TPH/g	Benzene mg/kg	Ethylbenzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MEBE mg/kg	IRBA mg/kg	DIBP mg/kg	EDBE mg/kg	TPMP mg/kg	Ethanol mg/kg
B-4 05/10/05											
10	ND	ND	ND	ND	ND	0.019	ND	ND	ND	ND	ND
15	ND	ND	ND	ND	ND	0.013	ND	ND	ND	ND	ND
20	ND	ND	ND	ND	ND	0.016	ND	ND	ND	ND	ND
25	ND	ND	ND	ND	ND	0.43	0.59	ND	ND	ND	ND
30	0.56*	ND	ND	ND	ND	0.81	3.1	ND	ND	ND	ND
35	ND	ND	ND	ND	ND	0.077	0.15	ND	ND	ND	ND
40	ND	0.013	0.015	0.064	0.092	0.28	0.051	ND	ND	ND	ND
45	3.5*	0.13	0.19	0.83	1.21	4.8	ND	ND	ND	ND	ND
50	3.5*	ND	ND	0.22	0.46	2.6	ND	ND	ND	ND	ND
55	0.85	0.0092	0.0099	0.053	0.062	0.19	ND	ND	ND	ND	ND
60	3.4*	ND	ND	0.25	0.39	2.3	ND	ND	ND	ND	ND
65	1.1*	ND	0.0074	0.028	0.065	0.89	0.081	ND	ND	ND	ND
70	1.0*	ND	ND	ND	0.14	1.5	ND	ND	ND	ND	ND
75	0.59*	ND	0.0060	0.013	0.061	1.0	0.18	ND	ND	ND	ND
80	1.3*	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND
85	0.69*	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	PHH/g	MPH/g	Benzene mg/kg	Ethylbenzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MURE mg/kg	PBA mg/kg	NDPE mg/kg	EBBE mg/kg	THME mg/kg	Ethanol mg/kg	COMMENTS
B-5 05/11/05													
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	ND	7.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	ND	6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	8.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-6 05/11/05													
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	ND	7.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND	ND	ND	ND
30	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND
35	ND	5.5	ND	ND	ND	ND	0.12	ND	ND	ND	ND	ND	ND
40	1.3*	ND	ND	ND	ND	ND	1.5	0.27	ND	ND	0.012	ND	ND
45	ND	5.9	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND	ND
50	ND	5.5	ND	ND	ND	ND	0.0061	ND	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	0.058	ND	ND	ND	ND	ND	ND
60	ND	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
65	ND	7.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
70	ND	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	MTHg mg/kg	URH-d mg/kg	Benzene mg/kg	Ethylbenzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MIBB mg/kg	MBA mg/kg	DIPE mg/kg	EBBE mg/kg	THAB mg/kg	Ethanol mg/kg	COMMENTS
MW-1	8/16/2005 and 8/17/2005												
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	ND	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	0.81*	ND	ND	ND	ND	ND	0.21	0.21	ND	ND	ND	ND	ND
30	ND	ND	ND	ND	ND	ND	0.49	ND	ND	ND	ND	ND	ND
35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	ND	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
90	ND	ND	ND	ND	ND	ND	0.0073	ND	ND	ND	ND	ND	ND
95	ND	ND	ND	ND	ND	ND	0.017	ND	ND	ND	ND	ND	ND
100	ND	ND	ND	ND	ND	ND	0.023	ND	ND	ND	ND	ND	ND
105	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
135	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
145	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	TPH-g mg/kg	TPH-l mg/kg	Benzene mg/kg	Ethyl- benzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	DTBE mg/kg	THMEO mg/kg	Ethanol mg/kg	COMMENTS
MW-1													
cont.													
150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3													
8/8/2005 and 8/9/2005													
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	ND	9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
60	ND	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	TPH-g mg/kg	TPH-d mg/kg	Benzene mg/kg	Ethyl- benzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MtBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	Ethanol mg/kg	COMMENTS
MW-3 cont.													
115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
135	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
145	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-4 8/11/2005 and 8/12/2005													
100	ND	36	ND	ND	ND	ND	0.038	ND	ND	ND	ND	ND	ND
105	0.84*	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110	ND	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
115	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
120	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
125	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
135	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
140	ND	31*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
145	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
150	ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	MRE mg/kg	MREHd mg/kg	Benzene mg/kg	Ethyl benzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MIBP mg/kg	BBA mg/kg	DBP mg/kg	JPBE mg/kg	TPMB mg/kg	Ethanol mg/kg	COMMENTS
MW-5	8/18/2005 and 8/19/2005												
10	900	1000	ND	1.6	ND	88	ND	ND	ND	ND	ND	ND	ND
15	ND	19	ND	ND	ND	0.049	ND	ND	ND	ND	ND	ND	ND
20	ND	9.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25	ND	9.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
30	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
35	4100	6900	ND	ND	ND	4.8	ND	ND	ND	ND	ND	ND	ND
40	ND	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
45	ND	22	ND	ND	ND	ND	ND	0.23	ND	ND	ND	ND	ND
50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55	ND	ND	ND	ND	ND	ND	0.0068	ND	ND	ND	ND	ND	ND
60	ND	ND	ND	ND	ND	ND	0.0079	ND	ND	ND	ND	ND	ND
65	ND	ND	ND	ND	ND	ND	0.015	ND	ND	ND	ND	ND	ND
70	ND	ND	ND	ND	ND	ND	0.014	ND	ND	ND	ND	ND	ND
75	ND	ND	ND	ND	ND	ND	0.012	0.052	ND	ND	ND	ND	ND
80	ND	ND	ND	ND	ND	ND	0.018	ND	ND	ND	ND	ND	ND
85	ND	ND	ND	ND	ND	ND	0.0058	ND	ND	ND	ND	ND	ND
90	ND	ND	ND	ND	ND	ND	0.0088	ND	ND	ND	ND	ND	ND
95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
105	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
125	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2

Summary of Soil Analytical Data - Site Assessment and Well Installation Activities 2005
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	TPH-g mg/kg	TPH-d mg/kg	Benzene mg/kg	Ethyl benzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	Ethanol mg/kg	COMMENTS
135	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
145	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
165	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - Not detected, see CARS for method detection limits
TPH-g - Total Petroleum Hydrocarbons as gasoline
TPH-d - Total Petroleum Hydrocarbons as diesel
MTBE - Methyl tert-butyl ether
TBA - Tert-butyl alcohol
ETBE - Ethyl tert-butyl ether
DIPE - Di-isopropyl ether
TAME - Tert-amyl methyl ether
CARS- Certified Analytical Reports

TPH-g and TPH-d analyzed using California Department of Health Services (DHS) Leaking Underground Fuel Tank (LUFT) Method.
* The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

**TABLE 3
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL RESULTS**

SHIELL SERVICE STATION
22045 Barton Road, Grand Terrace, California

DATE	DEPTH TO GW (feet)	SPH THICKN (feet)	GW ELEV. (feet relative to MSL)	TPH-D (ug/L)	TPH-G (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL-BENZENE (ug/L)	TOTAL XYLENES (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	ETHANOL (ug/L)	COMMENTS
MW-1																
	Top of casing elevation (ft): 990.55															
9/20/2005	135.83	0.00	854.72													
9/22/2005	135.55	0.00	855.00													
9/30/2005	135.70	0.00	854.85	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.74	0.00	852.81	62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	137.63	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.50	0.00	854.05	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.92	0.00	852.63	63	ND<50	ND<0.50	ND<0.50	0.63	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	148.13	0.00	842.42	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-3																
	Top of casing elevation (ft): 991.14															
9/20/2005	137.85	0.00	853.29													
9/10/2005	137.76	0.00	853.38	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	14	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	139.44	0.00	851.70	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	139.27	0.00	851.87	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	138.22	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	139.72	0.00	851.42	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	149.60	0.00	841.54	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
MW-4																
	Top of casing elevation (ft): 990.07															
9/20/2005	135.77	0.00	854.30													
9/10/2005	135.74	0.00	854.33	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.48	0.00	852.40	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	137.48	0.00	852.59	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.43	0.00	853.64	53	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.70	0.00	852.37	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	147.71	0.00	842.36	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
MW-5																
	Top of casing elevation (ft): 989.48															
9/20/2005	135.24	0.00	854.24													
9/22/2005	135.01	0.00	854.47													
9/30/2005	135.19	0.00	854.29	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.00	0.00	852.48	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	136.92	0.00	852.56	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	135.70	0.00	853.78	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.17	0.00	852.31	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	147.29	0.00	842.19	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
Notes:																
GW = groundwater																
SPH = separate-phase hydrocarbons																
MSL = mean sea level																
ND = not detected																
ug/L = parts per billion																
TPH-G = total petroleum hydrocarbons as gasoline analyzed using the California DHS LUFT Method																
TPH-D = total petroleum hydrocarbons as diesel analyzed using the California DHS LUFT Method																
Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B																
MTBE = methyl tertiary butyl ether analyzed using EPA Method 8260B																
TBA = tertiary butyl alcohol analyzed using EPA Method 8260B																
DIPE = diisopropyl ether analyzed using EPA Method 8260B																
ETBE = ethyl tertiary butyl ether analyzed using EPA Method 8260B																
TAME = tertiary amyl methyl ether analyzed using EPA Method 8260B																
Site survey dated May 30, 2006 provided by Water T. Foster P.L.S., CA.																

TABLE 4
SUMMARY OF SVE STEP TEST MONITORING DATA (SVE-1A)
Former Shell Service Station
22045 Barton Rd., Grand Terrace, CA

Sample Date	Sample Time	Extraction Well (SVE-1A)				PID Influent Conc. (ppmv)	Observation Well (SVE-1B)		Observation Well (SVE-2)		Observation Well (SVE-3)		Observation Well (SVE-4)		Observation Well (MW-1)		Observation Well (MW-2)		Observation Well (MW-3)		
		Vacuum (in. of H ₂ O)	Flow (scfm)	Flow (cfm)	Flow (scfm)*		Dis. from SVE-1A: 0 ft	Dis. from SVE-1A: 28.2 ft	Dis. from SVE-1A: 57.5 ft	Dis. from SVE-1A: 31.4 ft	Dis. from SVE-1A: 63.0 ft	Dis. from SVE-1A: 43.1 ft	Dis. from SVE-1A: 29.0 ft	Vacuum		Vacuum		Vacuum		Vacuum	
														(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)
10/10/06	8:25	20.27	1.49	60.4	57.4	325	NA	NA	1.69	8.34	3.90	1.76	8.68	0.35	1.73	0.39	1.92	0.39	1.92	0.39	1.92
10/10/06	8:40	20.14	1.48	60.4	57.4	875	0.52	2.58	1.60	7.95	4.12	1.73	8.59	0.42	2.09	0.44	2.19	0.44	2.09	0.44	2.09
10/10/06	8:55	19.18	1.41	60.4	57.6	1162	0.55	2.87	1.62	8.44	4.54	1.73	NA	0.46	2.40	0.44	2.29	0.44	2.29	0.44	2.29
10/10/06	9:10	19.39	1.44	60.4	57.3	1370	0.59	3.01	1.68	8.58	4.64	1.83	9.34	0.50	2.55	0.50	2.55	0.50	2.55	0.50	2.55
10/10/06	9:25	47.21	3.47	78.0	69.0	1749	0.63	1.33	2.86	6.06	2.48	3.00	6.35	0.30	1.06	0.30	1.06	0.30	1.06	0.30	1.06
10/10/06	9:40	46.53	3.42	85.5	75.7	1948	0.63	1.35	3.29	7.07	3.16	3.46	7.44	0.46	0.99	0.46	0.99	0.46	0.99	0.46	0.99
10/10/06	9:55	46.67	3.43	92.3	81.7	2279	0.54	1.16	3.28	7.03	3.24	3.48	7.46	0.41	0.88	0.38	0.81	0.38	0.81	0.38	0.81
10/10/06	10:10	72.79	5.35	110.3	90.6	2248	0.59	0.81	4.19	5.76	2.29	4.33	5.95	0.37	0.51	0.41	0.36	0.37	0.51	0.37	0.51
10/10/06	10:25	73.06	5.37	135.2	110.9	2531	0.59	0.81	4.75	6.50	2.75	4.91	NA	0.33	0.45	0.37	0.51	0.37	0.51	0.37	0.51
10/10/06	10:40	72.51	5.33	92.3	75.9	2266	0.59	0.81	4.83	6.66	2.90	5.01	6.91	0.31	0.43	0.32	0.44	0.32	0.44	0.32	0.44
							0.55	2.82	1.65	8.33	4.30	1.76	8.87	0.43	2.19	0.44	2.24	0.44	2.24	0.44	2.24
							Maximum Average														

Notes:
 in. of H₂O - inches of Mercury
 in. of H₂O - inches of Water
 flow - feet per minute
 scfm - actual cubic feet per minute
 cfm - standard cubic feet per minute
 ppmv - parts per million by volume
 Average for observation well vacuum are based on the step with the maximum percentage of vacuum. (Shown in bold)
 NA - Not Analyzed
 * Flow rate (scfm) = Flow rate (cfm) * (Pressure on the gauge (psi) / Pressure atmosphere (psi))

TABLE 5
SUMMARY OF SVE STEP TEST MONITORING DATA (SVE-1B)
Former Shell Service Station
22045 Barton Road, Grand Terrace, CA

Sample Date	Sample Time	Extraction Well (SVE-1B)		Flow (scfm)	Flow (cfm)	PID Influent Conc. (ppmv)	Observation Well (SVE-1A)		Observation Well (SVE-2)		Observation Well (SVE-3)		Observation Well (SVE-4)		Observation Well (NW-3)		Observation Well (NW-1)		
		Vacuum (in. of H ₂ O)	Vacuum (in. Hg)				Dis. from SVE-1B: 0 ft.	Dis. from SVE-1B: 28.3 ft.	Dis. from SVE-1B: 57.5 ft.	Dis. from SVE-1B: 31.4 ft.	Dis. from SVE-1B: 43.1 ft.	Dis. from SVE-1B: 63 ft.	Dis. from SVE-1B: 43.1 ft.	Dis. from SVE-1B: 63 ft.	Dis. from SVE-1B: 43.1 ft.	Dis. from SVE-1B: 63 ft.			
		(% of SVE-1B)	(% of SVE-1B)				(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)
10/10/06	11:10	14.7	1.08	65.3	62.9	301	0.78	5.31	0.76	5.17	0.57	3.88	0.77	5.24	0.43	2.93	0.55	3.74	
10/10/06	11:35	14.8	1.09	78.0	75.2	576	0.61	4.11	0.62	4.18	0.35	NA	0.55	3.71	0.40	2.70	0.48	3.24	
10/10/06	11:40	14.8	1.09	92.3	88.9	961	0.57	3.84	0.58	3.91	0.26	1.75	0.48	3.24	0.38	2.56	0.48	3.24	
10/10/06	11:55	15.1	1.11	104.7	100.8	1205	0.50	3.31	0.54	3.58	0.24	NA	0.42	3.28	0.35	2.32	0.42	3.18	
10/10/06	12:10	28.8	2.12	246.7	239.2	1292	0.63	3.15	0.62	2.15	0.21	0.73	0.48	1.66	0.47	1.63	0.57	1.98	
10/10/06	12:25	28.7	2.11	246.7	239.3	1433	0.76	2.65	0.77	2.68	0.29	1.01	0.60	3.09	0.53	1.85	0.68	2.37	
10/10/06	12:40	28.6	2.10	246.7	239.4	1339	0.75	2.63	0.78	2.73	0.30	0.85	0.60	2.10	0.50	1.75	0.65	2.28	
10/10/06	12:55	41.2	3.03	292.0	262.4	1265	0.98	2.38	0.99	2.40	0.39	NA	0.76	1.84	0.68	1.65	0.91	2.21	
10/10/06	13:10	41.2	3.03	340.1	305.7	1261	1.05	2.55	1.15	2.79	0.48	1.16	0.89	2.16	0.76	1.84	0.95	2.30	
10/10/06	13:25	41.2	3.03	312.1	280.5	1133	1.15	2.79	1.17	2.84	0.50	1.21	0.95	2.30	0.76	1.84	1.00	2.43	
							Maximum Average	0.62	4.14	0.63	4.21	0.36	2.82	0.56	3.74	0.39	2.63	0.45	3.05

Notes:
in - 411g - inches of mercury
in - 4110 - inches of water
ppm - four per minute
scfm - actual cubic feet per minute
cfm - standard cubic feet per minute
ppmv - parts per million by volume
Averages for values where well vacuum are based on the step with the maximum percentage of vacuum. (Stuvia is set)NA - Not Analyzed

* Flow rate (cfm) = Flow rate (scfm) * [Pressure at the gauge (psia) / Pressure atmosphere (psia)]

TABLE 6
SUMMARY OF SVE STEP-TEST MONITORING DATA (SVE-4)
Former Shell Service Station
22845 Burton Rd., Grand Terrace, CA

Sample Date	Extraction Well (SVE-4)				PID Influent Conc. (ppmv)	Observation Well (SVE-1A) Dis. from SVE-4: 31.9 ft		Observation Well (SVE-1B) Dis. from SVE-4: 31.9 ft		Observation Well (SVE-2) Dis. from SVE-4: 43.6 ft		Observation Well (SVE-3) Dis. from SVE-4: 86.3 ft		Observation Well (MW-3) Dis. from SVE-4: 74.0 ft		Observation Well (MW-1) Dis. from SVE-4: 37.5 ft	
	Vacuum	Flow (scfm)	Flow (scfm)	Flow (scfm)		(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)
	(in. of H ₂ O)	(in. of H ₂ O)	(in. of H ₂ O)	(in. of H ₂ O)		(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)
10/1/06	44.5	3.37	78.0	69.5	>9999 (OR)	NA	0.76	NA	1.35	3.03	3.71	8.31	1.53	0.69	0.70	1.57	
10/1/06	11.00	44.9	3.30	92.3	87.1	>9999 (OR)	0.61	1.36	1.95	4.24	4.47	9.96	0.44	0.98	0.45	1.00	
10/1/06	11.15	44.9	3.30	78.0	69.4	>9999 (OR)	0.53	1.18	2.00	4.45	4.67	10.40	0.76	0.39	0.37	0.82	
10/1/06	11.30	45.3	3.32	78.0	69.3	>9999 (OR)	0.44	0.97	2.05	4.54	4.75	10.52	0.76	0.29	0.29	0.64	
10/1/06	11.45	89.2	6.56	135.2	105.6	>9999 (OR)	0.46	0.57	3.00	3.36	7.45	8.35	0.22	0.21	0.24	0.36	
10/1/06	12.00	89.8	6.60	110.3	86.0	>9999 (OR)	0.48	0.53	3.60	4.01	8.50	9.47	0.18	0.18	0.20	0.21	
10/1/06	12.15	90.5	6.65	156.1	121.4	>9999 (OR)	0.39	0.43	3.69	4.08	8.69	9.61	0.08	0.08	0.09	0.11	
10/1/06	12.30	130.5	9.59	234.1	159.1	9905.0	0.37	0.38	4.36	3.24	10.71	8.21	0.00	0.00	0.00	0.00	
10/1/06	12.45	131.8	9.69	246.7	166.8	7870.0	0.33	0.25	4.62	3.50	11.48	8.71	0.05**	0.00	0.05**	0.00	
10/1/06	13.00	117.0	9.70	246.7	166.7	>9999 (OR)	0.31	0.23	4.97	3.77	11.78	8.93	0.1**	0.1**	0.08**	0.00	
						Maximum Average	0.59	1.17	1.84	4.09	4.40	9.80	0.43	0.45	0.45	1.01	1.01

Notes:
 in. of Hg - Inches of Mercury
 in. of H₂O - Inches of Water
 flow - feet per minute
 scfm - standard cubic feet per minute
 scfd - standard cubic feet per day
 ppmv - parts per million by volume
 OR - Out of Range
 NA - Not Analyzed
 * - Flow rate (scfm) = Flow rate (scfd) x (Pressure at the gauge (psig) / Pressure atmosphere (psia)) / Pressure atmosphere (psia)
 ** - Positive Pressure not used in ROI calculation

TABLE 7
SUMMARY OF SVE STEP TEST MONITORING DATA (MW-4)
Former Shell Service Station
22045 Barron Road, Grand Terrace, CA

Sample Date	Sample Time	Extraction Well (MW-3)				Observation Well (SVE-1A)		Observation Well (SVE-1B)		Observation Well (SVE-3)		Observation Well (SVE-4)		Observation Well (MW-1)		Observation Well (MW-3)													
		Vacuum (in. of H ₂ O)	Flow (scfm)	Flow (scfm)	PID Inherent Conc. (ppmv)	Dis. from MW-4 (ft)	(% of MW-4)	Dis. from MW-4 (ft)	(% of MW-4)	Dis. from MW-4 (ft)	(% of MW-4)	Dis. from MW-4 (ft)	(% of MW-4)	Dis. from MW-4 (ft)	(% of MW-4)	Dis. from MW-4 (ft)	(% of MW-4)												
10/1/06	7:55	6.3	0.46	92.3	90.9	30.5	0.75	12.14	0.76	NA	0.18	2.88	0.23	3.68	0.85	NA	1.01	16.14											
10/1/06	8:10	6.1	0.45	85.5	84.2	46.0	0.77	12.74	0.78	6.31	0.21	3.43	0.25	4.08	0.85	13.89	1.02	16.66											
10/1/06	8:25	6.4	0.47	104.7	103.1	57.2	0.79	13.20	0.78	6.76	0.32	3.44	0.26	4.07	0.88	13.76	1.03	16.11											
10/1/06	8:40	6.5	0.48	85.5	84.1	57.3	0.75	13.32	0.87	7.35	0.33	5.05	0.37	5.67	0.89	15.16	1.14	17.46											
10/1/06	8:55	7.7	1.30	312.1	298.5	62.0	0.50	8.54	1.51	3.33	0.42	2.77	0.48	2.71	1.22	0.78	2.01	17.36											
10/1/06	9:10	17.6	1.29	321.7	307.8	68.1	0.38	9.40	1.62	4.39	0.49	2.79	0.56	3.19	1.83	10.34	2.16	17.21											
10/1/06	9:25	17.0	1.25	321.7	308.3	63.3	0.65	10.29	1.75	5.35	0.55	3.23	0.62	3.65	1.93	11.35	2.33	17.70											
10/1/06	9:40	25.2	1.83	472.9	397.4	72.1	0.83	8.86	2.23	4.33	0.73	2.90	0.82	3.26	2.48	9.88	2.88	17.44											
10/1/06	9:55	14.6	1.07	302.2	291.4	81.1	0.85	14.01	2.04	7.90	0.74	5.08	0.83	5.70	2.19	15.04	2.49	17.10											
10/1/06	10:10	14.8	1.09	312.1	300.7	93.3	0.85	13.28	1.97	7.49	0.75	5.06	0.82	5.53	2.08	14.03	2.41	16.25											
Maximum Average																0.84	17.60	0.81	6.60	0.42	4.96	0.74	4.35	0.82	4.83	0.91	14.27	1.06	16.59

Notes:
 in. of Hg - Inches of Mercury
 in. of H₂O - Inches of Water
 ft - feet
 ft/min - feet per minute
 scfm - standard cubic feet per minute
 ppmv - parts per million by volume
 Average or observation well vacuum are based on the trip with the maximum percentage of vacuum. (Shows in bold)
 NA - Not Analyzed

* Flow rate (scfm) = Flow rate (scfm) x (Pressure at the gauge (ps) + Pressure atmosphere (ps)) / Pressure atmosphere (ps)

TABLE 8
SUMMARY OF SVE EXTENDED TEST MONITORING DATA (SVE-4)
 Farnet Shell Service Station
 22045 Barroca Road, Grand Terrace, CA

Sample Date	Sample Time	Extraction Well (SVE-4)				PID Influent Conc. (ppmv)	Observation Well (SVE-1A) Dit. from SVE-4: 31.9 ft		Observation Well (SVE-1B) Dit. from SVE-4: 31.9 ft		Observation Well (SVE-2) Dit. from SVE-4: 43.6 ft		Observation Well (SVE-3) Dit. from SVE-4: 26.3 ft		Observation Well (MW-1) Dit. from SVE-4: 32.0 ft		Observation Well (MW-3) Dit. from SVE-4: 74.0 ft		Observation Well (MW-4) Dit. from SVE-4: 27.5 ft	
		Vacuum (in. of H ₂ O)	Vacuum (in. of Hg)	Flow (scfm)	Flow (scfm)*		(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)
10/12/06	7:40	136.1	10.00	382.0	194.4	>9999 (OR)	2.06	0.35	0.47	0.78	2.74	2.01	7.87	5.78	0.20	0.15	0.72	0.16	0.22	0.16
10/12/06	8:10	132.6	9.75	246.7	166.3	>9999 (OR)	8.84	0.66	0.87	1.03	5.23	3.84	11.88	8.96	0.41	0.31	0.44	0.33	0.43	0.37
10/12/06	8:40	132.6	9.75	246.7	166.3	>9999 (OR)	10.33	0.78	1.03	1.03	5.67	4.37	12.50	9.42	0.57	0.43	0.59	0.43	0.62	0.47
10/12/06	9:10	132.3	9.80	246.7	163.9	>9999 (OR)	10.37	0.78	1.02	1.02	5.74	4.31	12.64	9.48	0.59	0.44	0.57	0.43	0.59	0.44
10/12/06	9:40	134.3	9.87	246.7	163.9	>9999 (OR)	10.38	0.76	0.94	0.94	5.69	4.24	12.56	9.35	0.50	0.37	0.52	0.39	0.59	0.44
10/12/06	10:10	133.3	9.80	246.7	163.9	>9999 (OR)	10.16	0.73	0.89	0.89	5.64	4.23	12.35	9.41	0.43	0.33	0.45	0.31	0.59	0.44
10/12/06	10:40	133.3	9.80	246.7	163.9	>9999 (OR)	10.16	0.78	0.78	0.78	5.51	4.13	12.38	9.29	0.30	0.23	0.38	0.20	0.31	0.23
10/12/06	11:10	133.3	9.80	246.7	163.9	>9999 (OR)	9.99	0.59	0.59	0.44	5.43	4.07	12.27	9.09	0.16	0.12	0.13	0.10	0.16	0.12
10/12/06	11:40	133.1	9.78	246.7	166.1	>9999 (OR)	9.90	0.41	0.55	0.41	5.37	4.04	12.09	9.09	0.09	0.07	0.08	0.06	0.11	0.08
10/12/06	12:10	132.0	9.70	246.7	166.7	>9999 (OR)	9.75	0.32	0.42	0.32	5.24	3.97	11.90	9.02	0.02**	0.00	0.01**	0.00	0.00	0.00
10/12/06	12:40	131.7	9.68	246.7	166.9	>9999 (OR)	9.78	0.36	0.36	0.36	5.25	3.99	11.95	9.06	0.15**	0.00	0.07**	0.00	0.04**	0.00
10/12/06	13:10	131.2	9.64	246.7	167.2	>9999 (OR)	9.67	0.18	0.23	0.18	5.15	3.93	11.88	9.06	0.23**	0.00	0.2**	0.00	0.17**	0.00
10/12/06	13:40	130.5	9.59	246.7	167.7	>9999 (OR)	9.56	0.13	0.13	0.13	4.97	3.81	11.67	8.94	0.37**	0.00	0.39**	0.00	0.35**	0.00
10/12/06	14:10	130.5	9.59	246.7	167.7	>9999 (OR)	9.54	0.07	0.07	0.05	5.02	3.85	11.72	8.98	0.4**	0.00	0.39**	0.00	0.35**	0.00
10/12/06	14:40	130.6	9.60	246.7	167.6	>9999 (OR)	9.51	0.01**	0.01**	0.00	4.97	3.81	11.68	8.94	0.46**	0.00	0.46**	0.00	0.41**	0.00
10/12/06	15:10	131.7	9.68	246.7	166.9	>9999 (OR)	9.53	0.00	0.00	0.00	5.00	3.80	11.68	8.87	0.47**	0.00	0.5**	0.00	0.4**	0.00
10/12/06	15:40	130.6	9.60	246.7	167.6	>9999 (OR)	9.54	0.00	0.00	0.00	5.01	3.84	11.70	8.96	0.48**	0.00	0.46**	0.00	0.41**	0.00
Average		132.4	9.73	249.4	168.3	Average	9.71	0.37	0.52	0.37	5.15	3.90	11.82	8.93	0.16	0.14	0.36	0.14	0.32	0.14

Notes:
 in. of Hg - Inches of Mercury
 in. of H₂O - Inches of Water
 ft-m - Feet per minute
 scfm - standard cubic feet per minute
 scfm - standard cubic feet per minute
 ppmv - parts per million by volume
 NA - Not Analyzed
 * Flow rate (scfm) = Flow rate (acfm) x Pressure at the gauge (psf) / Pressure atmosphere (psf)
 ** Positive Pressure not used in KOL calculation

TABLE 9
SUMMARY OF SVE ANALYTICAL DATA (ASTM D-1946)
 Former Shell Service Station
 22045 Barton Road, Grand Terrace, CA

Sample Date (mm/dd/yy)	Sample ID	O ₂ (%)	N ₂ (%)	CH ₄ (%)	CO (%)	CO ₂ (%)
10/10/2006	SVE-1A Step Start	10.9	80.4	ND<0.100	ND<0.100	8.72
10/10/2006	SVE-1A Step End	8.63	80.5	ND<0.100	ND<0.100	10.8
10/10/2006	SVE-1B Step Start	7.36	81.8	ND<0.100	ND<0.100	10.8
10/10/2006	SVE-1B Step End	4.14	82.6	ND<0.100	ND<0.100	13.2
10/11/2006	SVE-4 Step Start	5.00	82.5	ND<0.100	ND<0.100	12.5
10/11/2006	SVE-4 Step End	16.5	79.3	ND<0.100	ND<0.100	4.20
10/11/2006	MW-4 Step Start	6.68	83.2	ND<0.100	ND<0.100	10.1
10/11/2006	MW-4 Step End	5.70	83.5	ND<0.100	ND<0.100	10.8
10/12/2006	SVE-4 Ext. Start	12.5	81.2	ND<0.100	ND<0.100	6.33
10/12/2006	SVE-4 Ext. Mid Pt	10.9	80.3	ND<0.100	ND<0.100	8.82
10/12/2006	SVE-4 Ext. End	13.3	79.6	ND<0.100	ND<0.100	7.04

Abbreviations & Notes:

- O₂ = Oxygen
- N₂ = Nitrogen
- CH₄ = Methane
- CO = Carbon Monoxide
- CO₂ = Carbon Dioxide

TABLE 10
Summary of SVE Analytical Data (EPA TO-3 and TO-15)
Shell Service Station
22045 Barton Road, Grand Terrace, California

Sample Date (mm/dd/yyyy)	Sample ID	TPH _g (ppmv)	TPH _g (ug/l)*	Benzene (ppmv)	Benzene (ug/l)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylenes (ppmv)	MTBE (ppmv)	MTBE (ug/l)	TBA (ppmv)	DIPE (ppmv)	ETBE (ppmv)	TAME (ppmv)
10/10/2006	SVE-1A Step Start	110	451	0.052	0.17	0.14	0.023	0.328	1.5	5.4	ND<0.060	ND<0.060	ND<0.060	ND<0.060
10/10/2006	SVE-1A Step End	1100	4,508	8.5	27	31	1.9	8.8	16	56	ND<0.067	ND<0.067	ND<0.067	ND<0.067
10/10/2006	SVE-1B Step Start	69	283	0.1	0.32	0.8	0.15	0.84	2.8	10	ND<0.032	ND<0.032	ND<0.032	ND<0.032
10/10/2006	SVE-1B Step End	550	2,254	3.3	11	3.8	0.63	4.3	24	87	ND<0.03	ND<0.03	ND<0.03	ND<0.03
10/11/2006	SVE-4 Step Start	2700	11,066	40	130	150	17	84	140	490	ND<1.5	ND<1.5	ND<1.5	ND<1.5
10/11/2006	SVE-4 Step End	1500	6,148	16	51	66	4.6	18.2	63	230	ND<0.85	ND<0.85	ND<0.85	ND<0.85
10/11/2006	MW-4 Step Start	42	172	0.00072	0.0023	0.005	0.0023	0.017	0.80	2.9	0.047	ND<0.002	ND<0.002	0.0062
10/11/2006	MW-4 Step End	63	258	0.04	0.130	0.041	ND<0.0088	0.41	4.5	16	ND<0.035	ND<0.035	ND<0.035	ND<0.035
10/12/2006	SVE-4 Ext. Start	1,200	4,918	15	47	64	8.6	31.3	44	160	ND<0.67	ND<0.67	ND<0.67	ND<0.67
10/12/2006	SVE-4 Ext. Mid Pt	1,600	6,557	25	79	95	17	35	66	240	ND<0.88	ND<0.88	ND<0.88	ND<0.88
10/12/2006	SVE-4 Ext. End	1,900	7,787	24	78	110	19	47	64	230	ND<1.1	ND<1.1	ND<1.1	ND<1.1
	Extended Test Average	1,567	6,421	21	68				58.0	210				

Abbreviations & Notes:

TPH_g = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Anyyl methyl ether

TBA = tert-Butyl alcohol

ppmv - parts per million by volume

ug/l = micrograms per liter

* = Calculated using following formula with an average molecular weight for gasoline of 100 g/mole

$$\text{TPH}_g \text{ Concentration (ug/l)} = \text{TPH}_g \text{ concentration (ppmv)} \times 10^{-6} \times 100 \text{ g/mole} \times \text{mole}/24.41 \times 10^6 \text{ ug/g}$$

TABLE 11
SUMMARY OF SOIL VAPOR MASS REMOVAL RATES
 Former Shell-Service Station
 22045 Barton Road, Grand Terrace, CA

MTBE Mass Removal Calculation - Extended Test SVE-4						
Hours of Operation (hr)	Average Influent Conc. (ug/L)	Average Flow Rate (scfm)	Conversion Factor	Mass Removed (lb)	Mass Removal Rate (lb/hr)	Mass Removal Rate (lb/day)
8.0	210	168.3	3.75E-06	1.06	0.13	3.18
TPH-g Mass Removal Calculation - Extended Test SVE-4						
Hours of Operation (hr)	Average Influent Conc. (ug/L)	Average Flow Rate (scfm)	Conversion Factor	Mass Removed (lb)	Mass Removal Rate (lb/hr)	Mass Removal Rate (lb/day)
8.0	6,421	168.3	3.75E-06	32.39	4.05	97.16
Benzene Mass Removal Calculation - Extended Test SVE-4						
Hours of Operation (hr)	Average Influent Conc. (ug/L)	Average Flow Rate (scfm)	Conversion Factor	Mass Removed (lb)	Mass Removal Rate (lb/hr)	Mass Removal Rate (lb/day)
8.0	68	168.3	3.75E-06	0.34	0.04	1.03

Mass removal (lbs) = influent concentration (ug/l) x flowrate (scfm) x hours of operation (hr.) x 3.75E-06

Abbreviations & Notes:
 MTBE = Methyl tert-butyl ether
 TPHg = Total petroleum hydrocarbons as gasoline
 ug/l = micrograms per liter
 scfm - standard cubic feet per minute
 lb/hr - pounds per hour
 lb/day - pounds per day
 ft³ - cubic feet

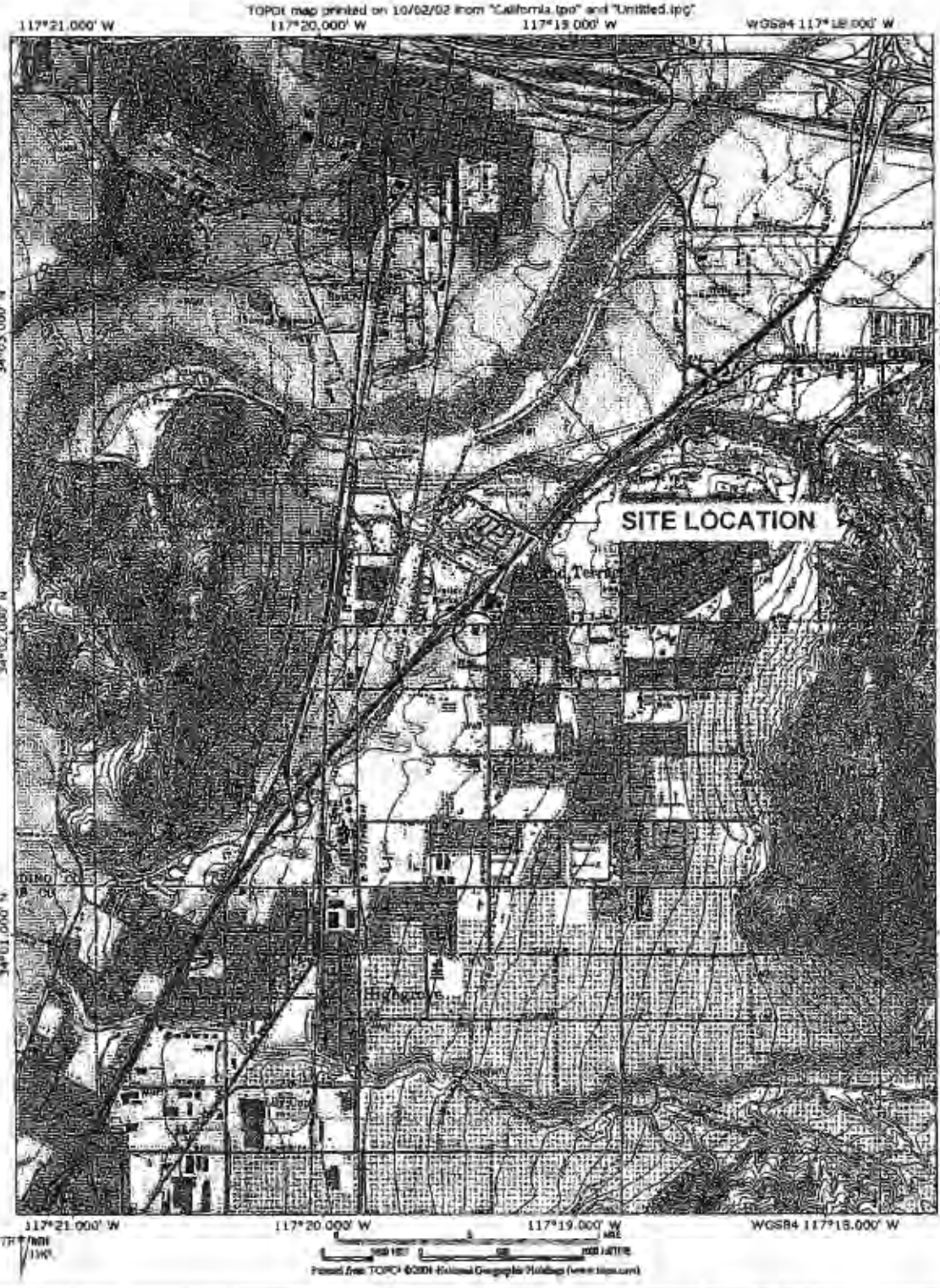
FIGURES

DRAWING NUMBER PA22045-1

APPROVED BY

CHECKED BY

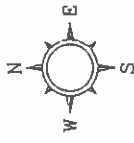
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SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 1
SITE LOCATION MAP

22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA



LEGEND

- MW-1 ◊ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ⚡ ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- B-1 ● EXPLORATORY SOIL BORING LOCATION (DELTA, 2005)
- SVE-1 ⚡ SOIL VAPOR EXTRACTION WELL
- ===== PROPOSED TRENCHING.

BARTON ROAD

FORMER DISPENSER ISLAND (TYP)

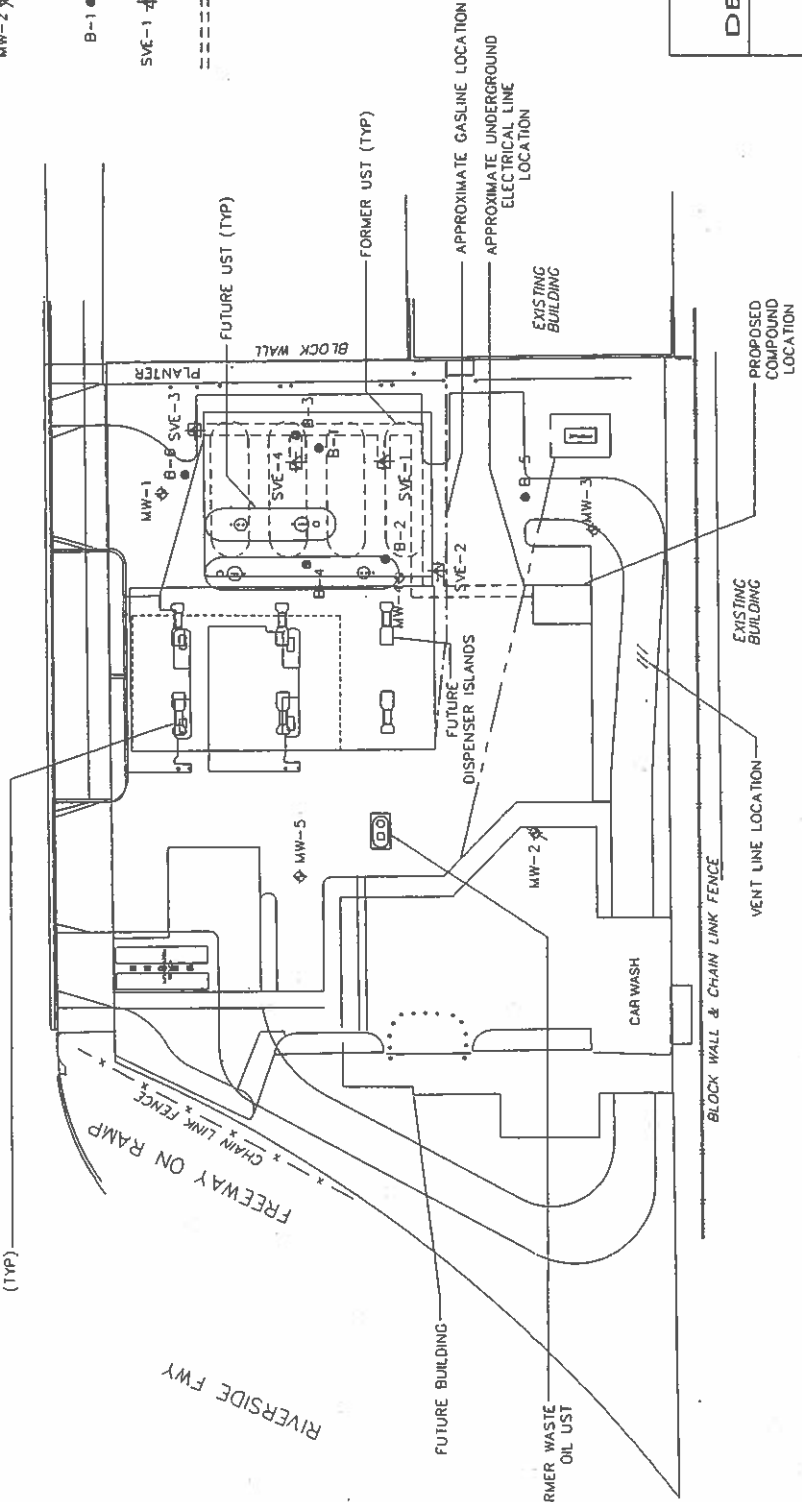
FREWAY ON RAMP

RIVERSIDE FWY

FUTURE BUILDING

FORMER WASTE OIL UST

SCALE IN FEET
0 15 30

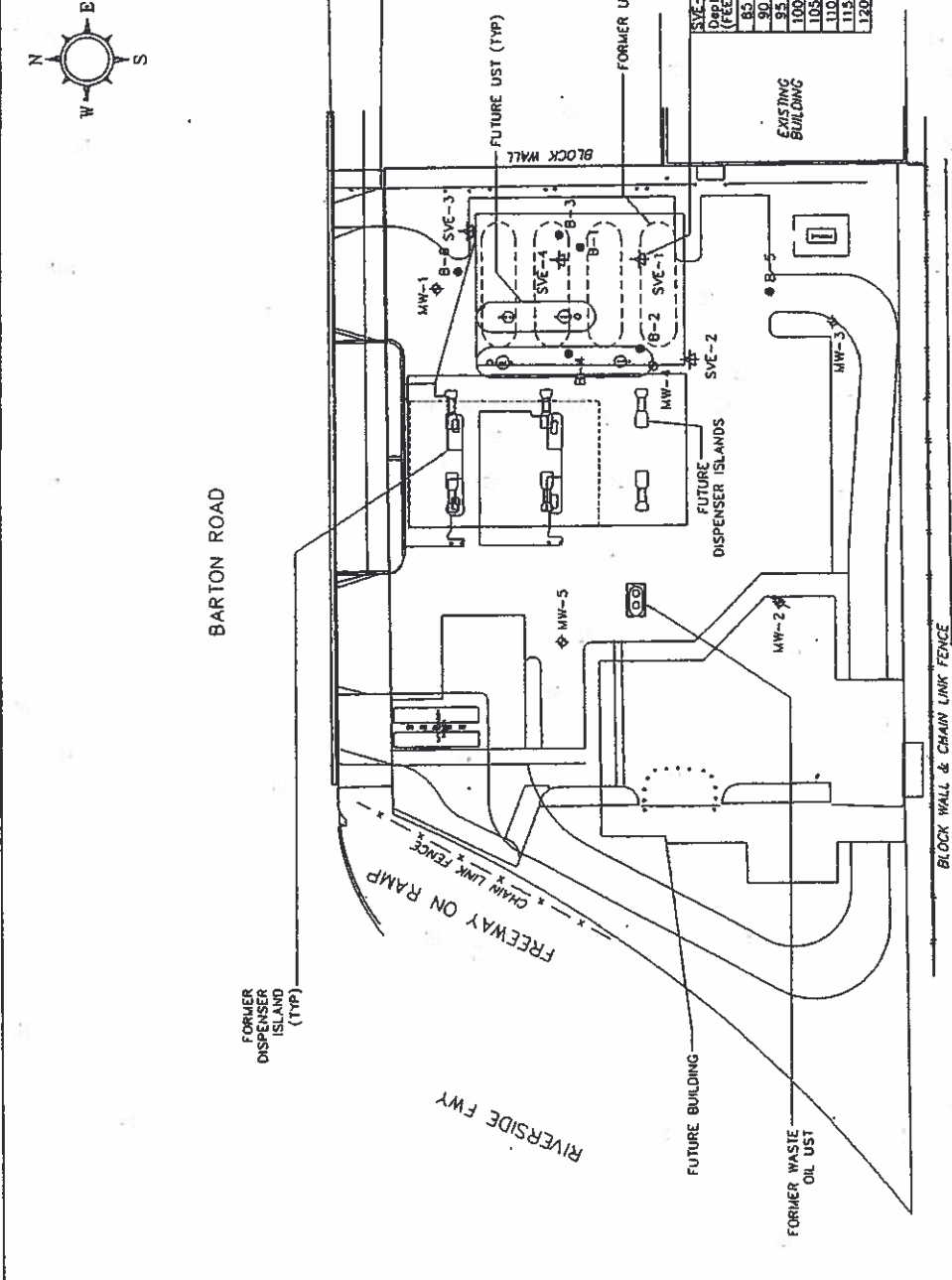


DELTA CONSULTANTS
SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 2
SITE MAP WITH SVE WELL LOCATIONS
AND TRENCHING
22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA

PROJECT NUMBER PA22045-1	APPROVED BY	CHECKED BY	DRAWN BY	DATE

PROJECT PA22045-1
 APPROVED BY
 CHECKED BY
 DRAWN BY
 DATE



LEGEND

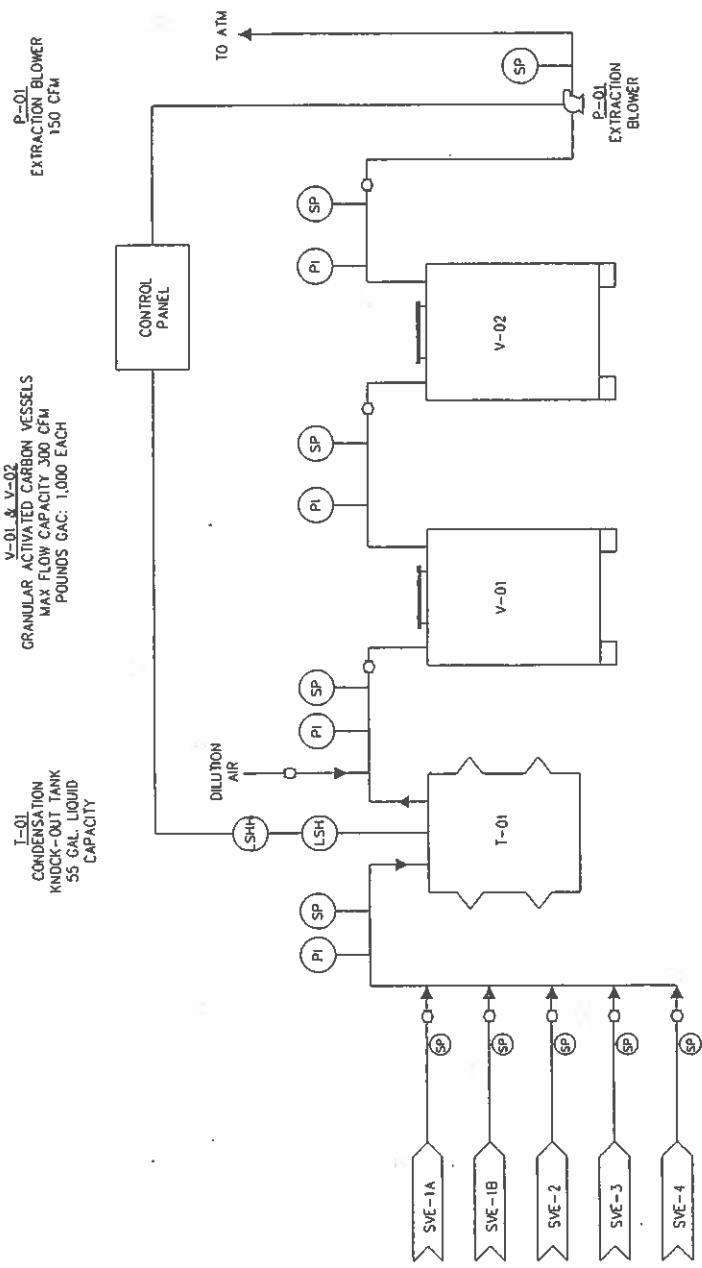
- MW-1 ◊ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ◊ ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP, 2001)
- B-1 ● EXPLORATORY SOIL BORING LOCATION (DELTA, 2005)
- SVE-1 ⚡ SOIL VAPOR EXTRACTION WELL LOCATION
- TPH-9 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- MTBE METHYL TERT-BUTYL ETHER
- TBA TERT-BUTYL ALCOHOL
- mg/kg MILLIGRAMS PER KILOGRAM
- ND< NOT DETECTED ABOVE LIMIT NOTED

Depth (Feet)	TPH-d (mg/kg)	TPH-9 (mg/kg)	Benzene (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)
85	ND<5.0	ND<0.20	ND<0.00089	0.19	0.21
90	ND<5.0	ND<0.20	ND<0.0010	0.019	ND<0.020
95	ND<5.0	ND<0.18	ND<0.0010	0.0031	ND<0.020
100	ND<5.0	ND<0.19	ND<0.0010	0.0059	ND<0.020
105	ND<5.0	ND<0.20	ND<0.00099	ND<0.0020	ND<0.020
110	ND<5.0	ND<0.20	ND<0.00099	ND<0.0020	ND<0.020
115	ND<5.0	ND<0.20	ND<0.0010	ND<0.0020	ND<0.020
120	ND<5.0	ND<0.20	ND<0.00089	ND<0.0020	ND<0.020

DELTA CONSULTANTS
 SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 3
 HYDROCARBON DISTRIBUTION IN SOIL MAP
 22045 BARTON ROAD
 COLTON, CALIFORNIA

Small vertical text at the bottom right corner, likely a scale or drawing reference.



NOTES:

THE SYSTEM SHOWN IS SOIL VAPOR EXTRACTION SYSTEM UTILIZING GRANULAR ACTIVATED CARBON (GAC) AS THE PRIMARY SOIL VAPOR TREATMENT TECHNOLOGY. SOIL VAPOR EXTRACTION IS PERFORMED USING A VACUUM BLOWER. EXTRACTED CONDENSATE IS SEPERATED USING A KNOCK OUT UNIT.

THE SIZING OF THE SVE SYSTEM CAPACITY IS BASED ON A LOW FLOW APPROACH.

THE GAC FOR THE TREATMENT SYSTEM MAY BE SUPPLIED FROM SHELL OR A SHELL APPROVED MANUFACTURER AS INDIVIDUAL VESSELS OR AS PRE-PACKAGED SYSTEM. THE VESSELS SHOWN ON THIS DIAGRAM ARE CONNECTED USING 3" SCH. 40 PVC PIPE UNLESS OTHERWISE NOTED. THE GAC SHOULD BE EITHER COCONUT SHELL OR COAL BASED CARBON WITH A MESH SIZE OF 12X30 OR EFFECTIVE SIZE OF 0.6MM TO 1MM.

THE CONTROL PANEL SHALL BE NEMA 4 CONSTRUCTION. THE BASE SHALL BE FABRICATION FROM A-36 CHANNEL STEEL TO MEET THE NECESSARY STRUCTURAL REQUIREMENTS FOR CALIFORNIA SEISMIC ZONE 4 CONSTRUCTION. ELECTRICAL CONDUITS ON THE SKID SHALL BE EMT SEAL FLEX CONNECTIONS SHALL NOT EXCEED 3' IN LENGTH.

PROCESS FLOW DIAGRAM
 SOIL VAPOR EXTRACTION SYSTEM (PHASE CARBON)

DESIGNED BY	REV	DATE	APPROVED BY	DATE
SCALE	AS SHOWN	4	SHEET NO.	1

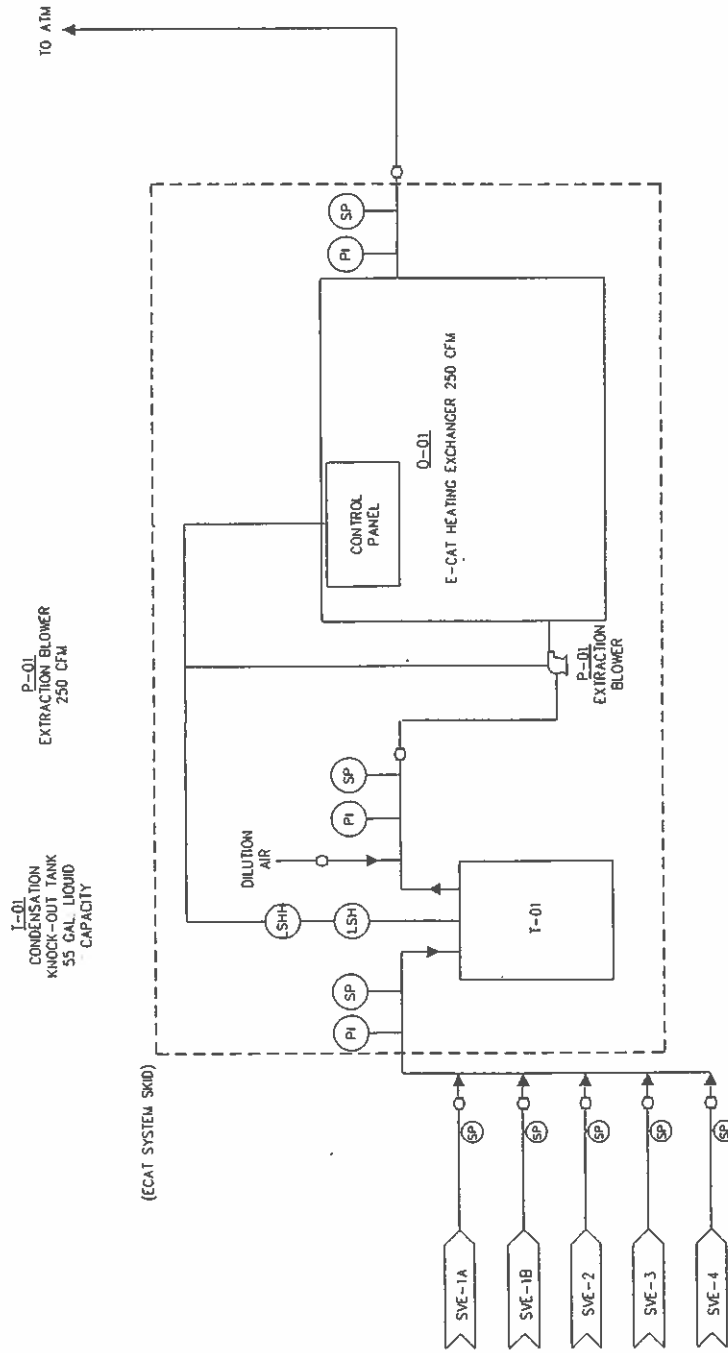
SHELL BRAND SERVICE STATION
 OAKLAND BRANCH
 OAKLAND, CALIFORNIA



STATUS	INITIAL/DATE
GC/IC Copying/Revis	<input type="checkbox"/>
Final Submittal	<input type="checkbox"/>
Final/Partial Approval	<input type="checkbox"/>
As Constructed	<input type="checkbox"/>
Construction Release	<input type="checkbox"/>

SHELL OIL PRODUCTS COMPANY, US
 SCIENCE AND ENGINEERING, WESTERN REGION, HSSE

IMAGE X-REF : OFFICE PROJECT NUMBER
 --- NO MON. CA
 PA22045-1



NOTES:

SOIL VAPOR EXTRACTION IS PERFORMED USING A VACUUM BLOWER. EXTRACTED CONDENSATE IS SEPERATED USING A KNOCK OUT UNIT.

THE SYSTEM SHOWN ON THIS DIAGRAM ARE CONNECTED USING 3" SCH. 40 PVC PIPE UNLESS OTHERWISE NOTED.

THE CONTROL PANEL SHALL BE NEMA 4 CONSTRUCTION. THE BASE SHALL BE FABRICATION FROM A-36 CHANNEL STEEL TO MEET THE NECESSARY STRUCTURAL REQUIREMENTS FOR CALIFORNIA SEISMIC ZONE 4 CONSTRUCTION. ELECTRICAL CONDUITS ON THE SKID SHALL BE ENT SEAL FLEX CONNECTIONS SHALL NOT EXCEED 3' IN LENGTH.

PROCESS FLOW DIAGRAM
 SOIL VAPOR EXTRACTION SYSTEM (From ECAT)

SHELL BRAND SERVICE STATION BRAND TERRACE CA		DATE	REV
ISSUED BY	DATE	APPROVED BY	DATE
1/17/07	1/16/07	1/16/07	1/17/07
SCALE:	AS SHOWN	SHEET NO.	5
			REVISED BY

STATUS	INITIAL/DATE
Delta Engineering Review	<input type="checkbox"/>
Final Approval	<input type="checkbox"/>
Plan/Field Approval	<input type="checkbox"/>
Mid Re-eval	<input type="checkbox"/>
Construction Release	<input type="checkbox"/>

SHELL OIL PRODUCTS COMPANY, US
 SCIENCE AND ENGINEERING, WESTERN REGION, HS&E



APPENDIX A

**SBCFD LETTER
DATED NOVEMBER 21, 2006**

COUNTY FIRE DEPARTMENT

COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP



OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden

RECEIVED
NOV 29 2006
BY: _____

November 21, 2006

SHELL OIL PRODUCTS U.S.
ENVIRONMENTAL SERVICES
20945 S. WILMINGTON AVENUE
CARSON, CA 90810-1039

SITE #2004027

ATTENTION: RANDY ORLOWSKI

SUBJECT: RESULTS OF SOIL VAPOR EXTRACTION WELL
INSTALLATION AND PILOT TESTING ACTIVITIES
FORMER SHELL/TEXACO SERVICE STATION,
22045 BARTON RD., GRAND TERRACE, CALIFORNIA

The Department has reviewed the above referenced document submitted by your consultant, Delta Environmental Consultants Inc., dated November 17, 2006. The report findings demonstrate that soil vapor extraction (SVE) would be an effective treatment technology to remediate petroleum impacted soil at the site.

Please submit a feasibility study and a remedial action plan no later than **January 22, 2007**.

If you have any questions, please call me at (909) 386-8419.

LISA HOLST, R.E.H.S.
ENVIRONMENTAL HEALTH SPECIALIST II
HAZARDOUS MATERIALS DIVISION
UST COMPLIANCE / SITE REMEDIATION PROGRAM

cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Kathryn Swords, Delta Environmental Consultants, Inc., Monrovia Office
Fahim S. Tanio

San Bernardino County Fire Department
Fire Marshal's Office
620 South "E" Street
San Bernardino, CA 92415-0153
(909) 386-8401

County of San Bernardino
Board of Supervisors
First District: GARY W. HANSEN
Second District: GARY W. HANSEN
Third District: GARY W. HANSEN
Fourth District: GARY W. HANSEN
Fifth District: GARY W. HANSEN

COUNTY FIRE DEPARTMENT

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

CP
KRW

CHB 8/2/06
2006 AUG 18 PM 2:17



COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

PAT A. DENNEN
Fire Chief
County Fire Warden



August 14, 2006

**SHELL OIL PRODUCTS U.S.
ENVIRONMENTAL SERVICES
20945 S. WILMINGTON AVENUE
CARSON, CA 90810-1039**

SITE #2004027

ATTENTION: RANDY ORLOWSKI

**SUBJECT: ADDENDUMS TO THE WORK PLAN FOR SOIL VAPOR
EXTRACTION WELL INSTALLATION AND PILOT TESTING
(DATED JANUARY 16, 2006)
FORMER SHELL/TEXACO SERVICE STATION,
22045 BARTON RD., GRAND TERRACE, CALIFORNIA**

The Department has reviewed the above referenced documents submitted by your consultant, Delta Environmental Consultants Inc., dated May 18, 2006, and August 7, 2006. The addendums modify the original proposed scope of work due to a pending UST installation, and to address Department comments and concerns as expressed in a letter dated March 24, 2006. The workplan and addendums are approved provided the following conditions are met:

1. Please notify the Department 5 working days in advance of soil vapor extraction (SVE) well installation and SVE pilot testing activity so a Department representative may be scheduled to be present.
2. Please submit one hard copy of the report of SVE well installation and pilot testing by **November 20, 2006**. The report should include a California registered professional's "wet" signature and stamp.
3. Persons responsible for performing the borings must possess a current C-57 State Well Contractors License.
4. A hard copy of the report of SVE well installation and pilot testing shall be forwarded to Carl Bernhardt at the Santa Ana Regional Water Quality Control Board.

August 14, 2006
Former Shell/Texaco Station
Page 2

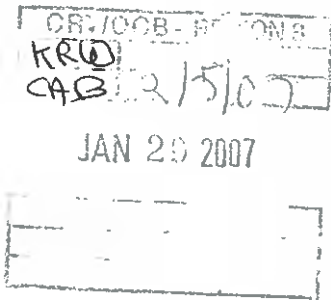
If you have any questions, please call me at (909) 386-8419.

A handwritten signature in cursive script that reads "Lisa Holst".

**LISA HOLST, R.E.H.S.
ENVIRONMENTAL HEALTH SPECIALIST II
HAZARDOUS MATERIALS DIVISION
UST COMPLIANCE / SITE REMEDIATION PROGRAM**

cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Kathryn Swords, Delta Environmental Consultants, Inc., Monrovia Office
Fahim S. Tanios

January 12, 2007
DELTA Project No. PA22045-1
SAP No. 120906



Ms. Lisa Holst
San Bernardino County Fire Department
Hazardous Materials Division
620 South E. Street
San Bernardino, California 92415-0153



Re: FOURTH QUARTER 2006 GROUNDWATER MONITORING REPORT

**Former Shell Service Station
22045 Barton Road
Grand Terrace, California
Site # 2004027**

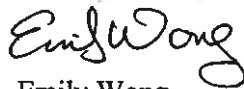
Dear Ms. Holst:


On behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), Delta Environmental Consultants, Inc. (DELTA) has prepared this *Fourth Quarter 2006 Groundwater Monitoring Report* for the above referenced site. The sampling activities at the site were conducted by Blaine Tech Services, Inc. under contract to SHELL and included the collection of groundwater samples and static water level measurements. A DELTA staff member under the supervision of a California Registered Civil Engineer or a California Professional Geologist performed the data evaluation.


This quarterly report represents DELTA's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this site, please contact either Ms. Katherine Swords (DELTA Project Manager) or Mr. Monica Cash-Ortega (DELTA) at (626) 256-6662. The SHELL Project Manager is Mr. Randy Orłowski; Mr. Orłowski can be reached at (949) 360-1111.

Sincerely,
Delta Environmental Consultants, Inc.


Emily Wong
Senior Staff Engineer


Katherine Swords, P.E. C70071 Exp. 9/30/08
Senior Project Engineer



Attachments: Fourth Quarter 2006 Groundwater Monitoring Report

cc: Mr. Randy Orłowski, Shell Oil Products US
Mr. Fahim Tanios c/o Bleau, Fox & Fong
Mr. Larry Jacobs, Shell Oil Products US
Mr. Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Ms. Monica Cash-Ortega, DELTA Consultants, Inc.

SHELL QUARTERLY GROUNDWATER MONITORING REPORT

Station Address.:	22045 Barton Road, Grand Terrace
DELTA Project No.	PA22045-1
SHELL Project Manager/Phone No.:	Randy Orlowski / (949) 360-1111
DELTA Site Manager/Phone No.:	Katherine Swords / (626) 256-6662
Primary Agency/Regulatory ID No.:	San Bernardino County Fire Department (SBCFD) / Ms. Lisa Holst ID No. 2004027
Other Agencies to Receive Copies:	Santa Ana Regional Water Quality Control Board (SARWQCB)

WORK PERFORMED THIS QUARTER (FOURTH - 2006):

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.
2. Conducted soil vapor extraction (SVE) well installation and SVE pilot testing activities.
3. Submitted *Results of Soil Vapor Extraction Well Installation and Pilot Testing Activities* dated November 17, 2006 to the SBCFD.
4. Received a letter dated November 21, 2006 from SBCFD requesting a remedial action plan.
5. Coordinated with property owner to maintain wells during re-development.
6. Communicated with SBCFD regarding property owner's pending developments.

WORK PROPOSED FOR NEXT QUARTER (FIRST- 2007):

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.
2. Coordinate with property owner to maintain wells during property re-development.
3. Communicate with SBCFD regarding property owner's pending developments.
4. Coordinate trenching activities in preparation for remedial compound installation.
5. Submit a Remedial Action Plan.

SHELL QUARTERLY GROUNDWATER MONITORING REPORT (CONT.)

Current Phase of Project:	<u>Groundwater monitoring and Corrective Action Planning</u>
Site Use:	<u>Former Shell Service Station</u>
Site and Surrounding Description:	<u>Commercial</u>
Frequency of Sampling:	<u>Quarterly</u>
Frequency of Monitoring:	<u>Quarterly</u>
Is Separate Phase Hydrocarbon Present On-site (Well #'s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
SPH Recovered This Quarter :	<u>None</u>
Cumulative SPH Recovered to Date :	<u>None</u>
Cumulative Groundwater Recovered This Quarter:	<u>45 gallons</u>
Receptors in Vicinity:	<u>Nearest active water supply well is located approximately 951 feet south of the site (City of Riverside Water Division Public Utilities Department State Well No. 02S/04W-05C01S).</u>
General Site Lithology:	<u>Well-graded and poorly-graded sands with gravel, silty sands, sandy silt, and silt</u>
Current Remediation Techniques:	<u>None</u>
Permits for Discharge:	<u>NA</u>
Approximate Depth to Groundwater:	<u>147.29' to 149.60' below top of casing</u>
Groundwater Gradient	<u>South-southwest direction</u>
Current Agency Correspondence:	<u>November 21, 2006 (Appendix A)</u>
Date of Most Recent Work Plan:	<u>January 16, 2006</u>
Site History:	
Case Opening	<u>2004</u>
On-Site Assessment	<u>2002, 2004, 2005, 2006</u>
Off-Site Assessment	<u>NA</u>
Passive Remediation	<u>NA</u>
Active Remediation	<u>NA</u>
Closure	<u>NA</u>

SHELL QUARTERLY GROUNDWATER MONITORING REPORT (CONT.)

Discussion:

Groundwater conditions observed during the fourth quarter 2006 remained generally consistent with the previous quarters. Due to site construction activities during the fourth quarter monitoring event, groundwater wells MW-3 through MW-5 could not be purged.



Katherine Swords
Site Manager (DELTA)

ATTACHED:

- Table 1 – Historical Groundwater Gauging and Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Hydrocarbon Distribution in Groundwater Map
- Appendix A – SBCFD Correspondence Letter dated November 21, 2006
- Appendix B – Field Data Sheets
- Appendix C – Field Procedures
- Appendix D – Waste Disposal Document
- Appendix E – Laboratory Report and Chain-of-Custody Documents

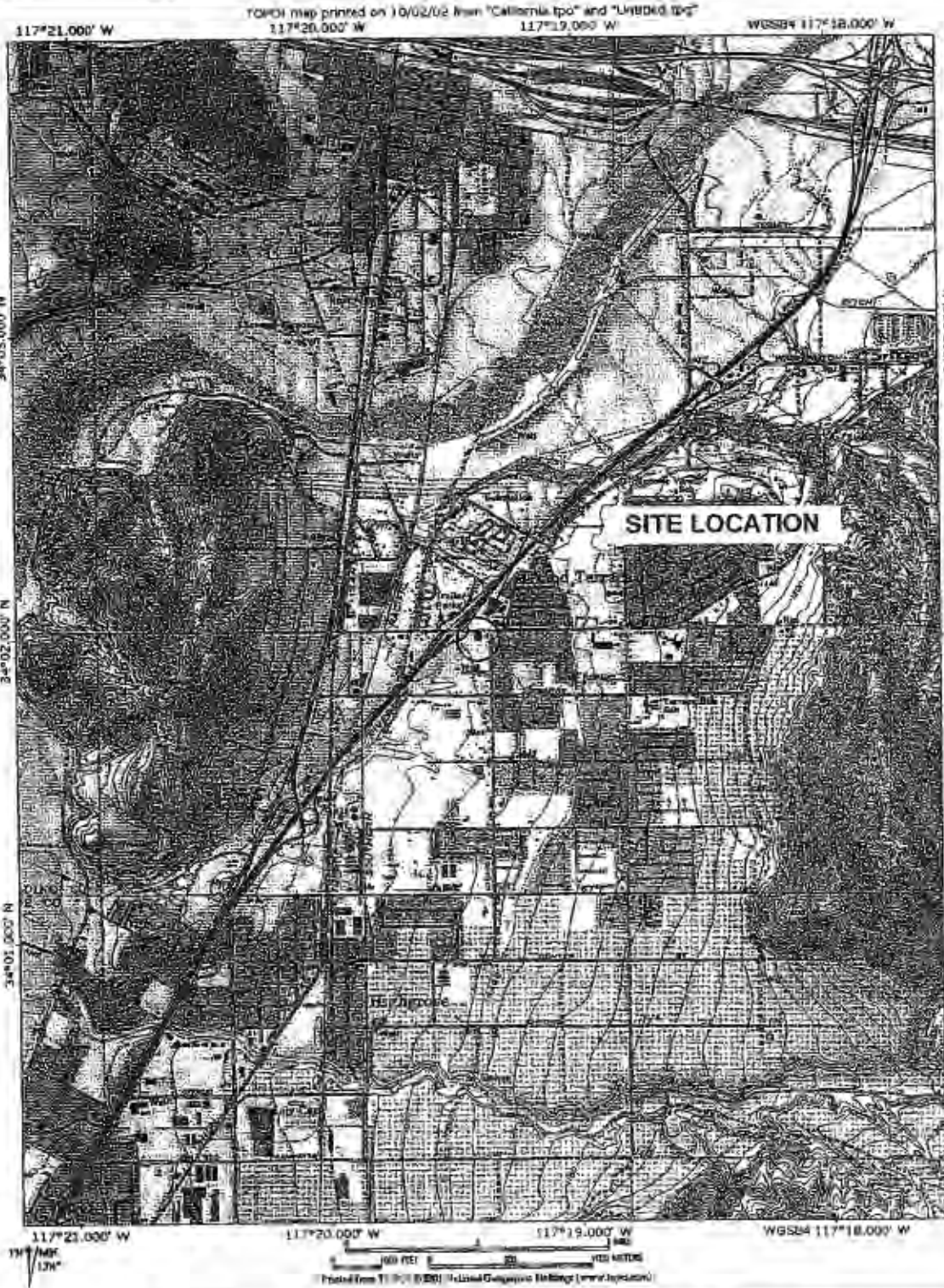
TABLES

**TABLE 1
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL RESULTS
SHELL SERVICE STATION
22045 Barton Road, Grand Terrace, California**

DATE	DEPTH TO GW (feet)	SPR THICKN (feet)	GW ELEV (feet relative to MSL)	TPH Ø (ug/L)	TPH-G (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL-BENZENE (ug/L)	TOTAL XYLENES (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	ETHANOL (ug/L)	COMMENTS
MW-1																
Top of casing elevation (ft): 990.55																
9/20/2005	135.83	0.00	854.72													
9/22/2005	135.55	0.00	855.00													
9/30/2005	135.70	0.00	854.85	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.74	0.00	852.81	ND<470	62	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	137.63	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.50	0.00	854.05	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.92	0.00	852.63	ND<470	63	ND<0.50	ND<0.50	0.63	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	148.13	0.00	842.42	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-3																
Top of casing elevation (ft): 991.14																
9/20/2005	137.85	0.00	853.29													
9/30/2005	137.76	0.00	853.38	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	14	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	139.44	0.00	851.70	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.1	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	139.27	0.00	851.87	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	138.22	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	139.72	0.00	851.42	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	149.60	0.00	841.54	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
MW-4																
Top of casing elevation (ft): 990.07																
9/20/2005	135.77	0.00	854.30													
9/30/2005	135.74	0.00	854.33	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.67	0.00	852.40	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	137.48	0.00	852.59	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.43	0.00	853.64	ND<470	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.70	0.00	852.37	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	147.71	0.00	842.36	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
MW-5																
Top of casing elevation (ft): 969.48																
9/20/2005	135.24	0.00	854.24													
9/22/2005	135.01	0.00	854.47													
9/30/2005	135.19	0.00	854.29	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.00	0.00	852.48	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	136.92	0.00	852.56	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	135.70	0.00	853.78	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.17	0.00	852.31	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
12/13/2006	147.29	0.00	842.19	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	No purge sample
Notes:																
GW = groundwater																
SPH = separate-phase hydrocarbons																
MSL = mean sea level																
ND = not detected																
ug/L = parts per billion																
TPH-G = total petroleum hydrocarbons as gasoline analyzed using the California DHS LUFT Method																
TPH-D = total petroleum hydrocarbons as diesel analyzed using the California DHS LUFT Method																
Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B																
MTBE = methyl tertiary butyl ether analyzed using EPA Method 8260B																
TBA = tertiary butyl alcohol analyzed using EPA Method 8260B																
DIPE = diisopropyl ether analyzed using EPA Method 8260B																
ETBE = ethyl tertiary butyl ether analyzed using EPA Method 8260B																
TAME = tertiary amyl methyl ether analyzed using EPA Method 8260B																
Site survey dated May 30, 2006 provided by Water T. Foster P.L.S., CA.																

FIGURES

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 APPROVED BY: [blank]
 PERMITS: PA22045-1

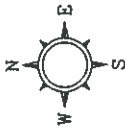



DELTA
 ENVIRONMENTAL
 CONSULTANTS INC.

SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 1
 SITE LOCATION MAP

22045 BARTON ROAD
 GRAND TERRACE, CALIFORNIA



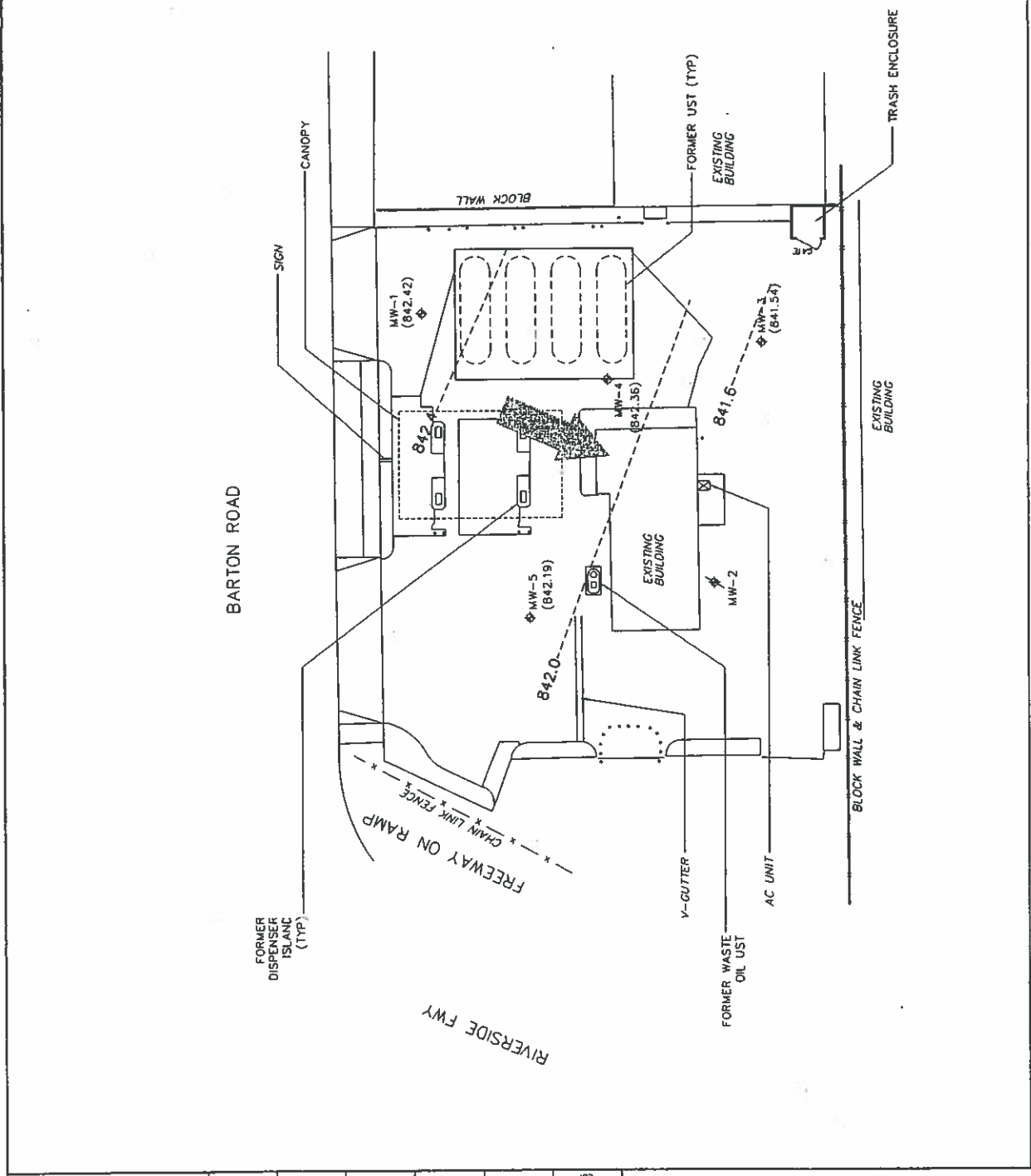
LEGEND

- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- (852.63) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (F1/MSL)
- 842.00 - - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (F1/MSL)
- CONTOUR INTERVAL=0.4 FEET
- APPROXIMATE GROUNDWATER DIRECTION

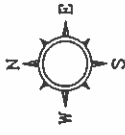


Delta ENVIRONMENTAL CONSULTANTS INC.
 SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 2
 GROUNDWATER ELEVATION CONTOUR MAP
 12/13/06
 22045 BARTON ROAD
 GRAND TERRACE, CALIFORNIA



PROJECT NUMBER	PA22045-1
DRAWN BY	LJM
CHECKED BY	
APPROVED BY	



LEGEND

MW-1 \diamond GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)

MW-2 ∇ ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (CRASP 2001)

TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL

TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

MTBE METHYL TERT-BUTYL ETHER

μ g/L MICROGRAMS PER LITER

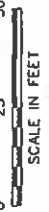
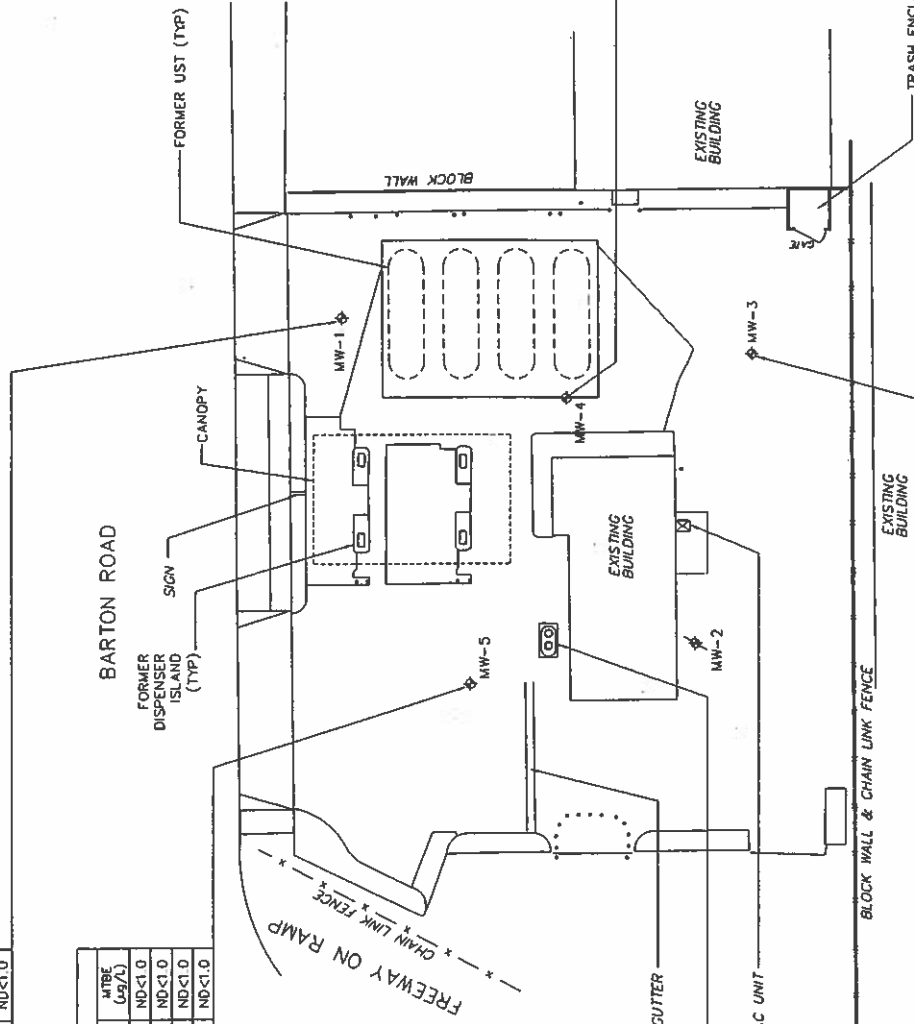
ND< NOT DETECTED ABOVE LIMIT NOTED

MW-1				
DATE	TPH-g (μ g/L)	BENZENE (μ g/L)	MTBE (μ g/L)	
01/25/06	ND<470	ND<50	ND<0.50	ND<1.0
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	6.3	ND<0.50	ND<1.0
12/13/06	ND<470	ND<50	ND<0.50	ND<1.0

MW-5				
DATE	TPH-g (μ g/L)	BENZENE (μ g/L)	MTBE (μ g/L)	
01/25/06	ND<470	ND<50	ND<0.50	ND<1.0
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0
12/13/06	ND<470	ND<50	ND<0.50	ND<1.0

MW-4				
DATE	TPH-g (μ g/L)	BENZENE (μ g/L)	MTBE (μ g/L)	
01/25/06	ND<470	ND<50	ND<0.50	ND<1.0
04/20/06	ND<470	5.3	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0
12/13/06	ND<470	ND<50	ND<0.50	ND<1.0

MW-3				
DATE	TPH-g (μ g/L)	BENZENE (μ g/L)	MTBE (μ g/L)	
01/25/06	ND<470	ND<50	ND<0.50	ND<1.0
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0
12/13/06	ND<470	ND<50	ND<0.50	ND<1.0



Delta ENVIRONMENTAL CONSULTANTS INC.
SHELL OIL PRODUCTS US FORMER SHELL SERVICE STATION COLTON, CALIFORNIA

FIGURE 3
HYDROCARBON DISTRIBUTION IN GROUNDWATER MAP

22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA

PROJECT NUMBER PA22045-1
APPROVED BY
CHECKED BY
DRAWN BY
DATE

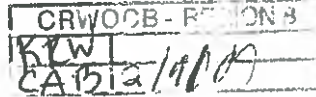
COUNTY FIRE DEPARTMENT

COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

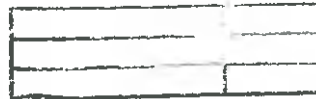


OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden



JAN 31 2007



January 26, 2007

SHELL OIL PRODUCTS U.S.
ENVIRONMENTAL SERVICES
20945 S. WILMINGTON AVENUE
CARSON, CA 90810-1039

SITE #2004027

ATTENTION: RANDY ORLOWSKI

SUBJECT: FEASIBILITY STUDY AND REMEDIAL ACTION PLAN
FORMER SHELL/TEXACO SERVICE STATION,
22045 BARTON RD., GRAND TERRACE, CALIFORNIA

The Department has reviewed the above referenced document submitted by your consultant, Delta Environmental Consultants Inc., dated January 19, 2007. The remedial action plan is approved with the following comments and conditions:

1. Your consultant has proposed soil cleanup levels based on EPA Region 9's Preliminary Remediation Goals. These cleanup goals would reduce the risk to commercial occupants from exposure to hydrocarbon vapors migrating into the building from contaminated subsurface soils. The cleanup criteria selected and appropriate for this site are to be protective of groundwater resources and environmental concerns as well as protective of human health. Cleanup guidelines for TPH and BTEX can be found in the State Water Resources Control Board's Leaking Underground Fuel Tank (LUFT) Manual. Application of the LUFT Manual's Leaching Potential Analysis for Gasoline and BTEX provides the following soil cleanup objectives, which are appropriate for this site:
 - TPHg – 100 ppm (parts per million)
 - Benzene – 0.3 ppm
 - Toluene – 0.3 ppm
 - Ethylbenzene – 1.0 ppm
 - Xylene – 1.0 ppm

The Department recommends a soil target cleanup level of 100 ppb, or less, for MTBE and TBA.

2. All equipment which may be exposed to or operated in an explosive/flammable atmosphere must be certified as being explosion proof, intrinsically safe, or an equivalent by a nationally certifying organization.
3. All electrical systems, power cables, and power take-offs shall be in compliance with local, state (UEC) and national (NEC) codes and regulations.
4. All equipment must be properly maintained and kept in good operating condition at all times.
5. All piping should slope toward the wells (away from the vacuum pump) having a minimum slope ratio of 1:100.
6. All backfill shall be uniform and free of debris and 90% compacted unless otherwise specified by local building officials.
7. Exhaust from the system must be directed in such a manner that it will not enter nearby structures or collect in areas where hazardous or nuisance conditions may be created.
8. It is required that an emergency shut-off switch be located a safe distance from the treatment unit and clearly marked so that the system may be safely shut down in the case of a malfunction or emergency.
9. It is required that a 24 hour emergency contact who is familiar with the treatment system be provided to the Department and local emergency response agencies (fire and police).
10. Records of remedial activities conducted at this site shall be kept and made available to this office for a period of three years unless a longer period is specified by law for particular records. These records shall include but are not limited to: all analytical data, maintenance of equipment, volume of waste transported off-site, manifests, reports, complaints, malfunctions, sampling procedures, dates, times, and personnel involved in performing the various activities.

11. Reports on all remedial activities shall be prepared by the proponent and submitted to this office quarterly, with the following exceptions. All of the following should be reported to this office within one working day unless law or circumstance requires a shorter reporting time frame.
 - a. Complaints in reference to the operation, emissions or discharges from the system, and hazardous waste handling practices on-site.
 - b. System malfunctions which result in or may result in discharges exceeding limits specified by the South Coast Air Quality Management District or results in an emergency shut-down of the system.
12. It is required that this office be notified **5 days** in advance of the start up of the treatment system, so a Department representative may be scheduled to be present for an inspection.
13. This approval must not be construed as a variance of exemption from compliance with any laws, regulations, local ordinance, or requirements of other regulatory agencies. It shall be the responsibility of the proponent to assure that all other requirements pertinent to the operation of this equipment are fulfilled.
14. A copy of any reports generated during the operation of the VE system shall be forwarded to the Santa Ana Regional Water Quality Control Board, to the attention of Carl Bernhardt.

If you have any questions, please call me at (909) 386-8419.



**LISA HOLST, R.E.H.S.
ENVIRONMENTAL HEALTH SPECIALIST II
HAZARDOUS MATERIALS DIVISION
UST COMPLIANCE / SITE REMEDIATION PROGRAM**

cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Kathryn Swords, Delta Environmental Consultants, Inc., Monrovia Office
Fahim S. Tanio

COUNTY FIRE DEPARTMENT KRW



**COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP**

**OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460**

2006 NOV 29 PM 2:31

CAB 2/19/06

**PAT A. DENNEN
Fire Chief
County Fire Warden**

November 21, 2006

**SHELL OIL PRODUCTS U.S.
ENVIRONMENTAL SERVICES
20945 S. WILMINGTON AVENUE
CARSON, CA 90810-1039**

SITE #2004027

ATTENTION: RANDY ORLOWSKI

**SUBJECT: RESULTS OF SOIL VAPOR EXTRACTION WELL
INSTALLATION AND PILOT TESTING ACTIVITIES
FORMER SHELL/TEXACO SERVICE STATION,
22045 BARTON RD., GRAND TERRACE, CALIFORNIA**

The Department has reviewed the above referenced document submitted by your consultant, Delta Environmental Consultants Inc., dated November 17, 2006. The report findings demonstrate that soil vapor extraction (SVE) would be an effective treatment technology to remediate petroleum impacted soil at the site.

Please submit a feasibility study and a remedial action plan no later than **January 22, 2007**.

If you have any questions, please call me at (909) 386-8419.

A handwritten signature in cursive script that reads "Lisa Holst".

**LISA HOLST, R.E.H.S.
ENVIRONMENTAL HEALTH SPECIALIST II
HAZARDOUS MATERIALS DIVISION
UST COMPLIANCE / SITE REMEDIATION PROGRAM**

cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Kathryn Swords, Delta Environmental Consultants, Inc., Monrovia Office
Fahim S. Tanio

November 17, 2006
DELTA Project No. PA22045-1
SAP No. 120906

KRW
CAB 11/17/06

Ms. Lisa Holst
San Bernardino County Fire Department
Hazardous Materials Division
620 South E. Street
San Bernardino, California 92415-0153



**Re: Results of Soil Vapor Extraction Well Installation and Pilot Testing Activities
Former Shell Service Station
22045 Barton Road
Grand Terrace, California**

Dear Ms. Holst:

Delta Environmental Consultants, Inc (DELTA), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), has prepared this report summarizing the results of soil vapor extraction (SVE) well installation and SVE pilot testing activities conducted at the above-referenced site (Figure 1). The primary objective of the pilot test was to evaluate the effectiveness of SVE to remediate hydrocarbon-impacted soil at the site.

This assessment was conducted in accordance with DELTA's *Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing* dated January 16, 2006, *Addendum to the Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing* dated January 16, 2006 dated May 18, 2006, and *Addendum to the Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing* dated January 16, 2006 dated August 7, 2006. The proposed work was approved by the San Bernardino County Fire Department (SBCFD) in a letter dated August 14, 2006 (Appendix A).

All work was performed under the supervision of a California-registered professional geologist and/or professional engineer.

BACKGROUND

SITE DESCRIPTION

The subject site is a former Shell Service Station located on South Barton Road, adjacent to the Interstate 215 Freeway off-ramp, in the City of Grand Terrace, California (Figure 1). The site operated as a service station from 1965 until underground storage tank (UST) closure activities were performed in August and September 2004. The former service station consisted of four dispensers, three 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, associated product piping, and a station building (Figure 2). The site is currently unoccupied and fenced. The new property owner will be re-opening the site as a gasoline service station and is currently in the process of installing new USTs in the area of the former USTs.

PREVIOUS WORK

Previous environmental activities at the site are summarized in the table below. Well and boring data are presented in Table 1. Recent soil borings and existing well locations are presented in Figure 2.

SUMMARY					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
HISTORICAL DATA FROM PREVIOUS ENVIRONMENTAL CASE: 1990 THROUGH CASE CLOSURE IN 1996					
9/1990	Unauthorized Release Report (URR)	Five soil borings (B-1 through B-5) adjacent to UST pit	9/18/90	W.W. Irwin (WWI)	Release of ~1000 gallons of regular leaded gasoline. SBCFD case #90137.
1/1991	Pre-UST Removal Soil Sampling	17 soil borings (B-6 through B-22) adjacent to dispenser islands and product lines.	7/9/91	WWI	Reportedly, no significant hydrocarbon-impact was encountered.
5/1991	UST Removal Activities		7/9/91	WWI	Four 6,000-gallon USTs removed and replaced with four 10,000-gallon USTs.

SUMMARY (CONT.)					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
11/1991	Site Characterization	Four soil borings (A-1 through A-4), two converted to vapor wells (A-3 and A-4)	2/1992	Texaco Environmental Services	Total petroleum hydrocarbons as gasoline (TPH-g) was detected at a maximum concentration of 22,474 milligrams per kilogram (mg/kg) in soil samples collected in boring A-3.
12/1993 -11/1995	Vapor Extraction and Confirmation Soil Borings	Three confirmation soil borings (CB-1 through CB-3)	8/12/96	EnecoTech Southwest, Inc.	Removed ~16,995 pounds of hydrocarbons from subsurface.
11/1996	Vapor Well Abandonment		11/25/96	Kleinfelder, Inc.	Abandoned A-3 and A-4.
12/1996	SBCFD Letter		12/17/96	SBCFD	No further action required.
HISTORICAL DATA FROM PREVIOUS ENVIRONMENTAL CASE: 2001 THROUGH CASE CLOSURE IN JUNE 2001					
2/2001	Waste Oil UST Removal	One soil sample collected from beneath UST	6/4/01	WGR Southwest	One 550-gallon tank removed.
6/2001	SBCFD Letter		12/17/96	SBCFD	No further action required.
HISTORICAL DATA FROM RECENT ENVIRONMENTAL ACTIVITIES: 2001 THROUGH 2004					
12/2001	GRASP Site Assessment	Five soil borings (SB-1 through SB-5)	1/28/02	IT Corporation (IT)	SB-2 boring converted to monitoring well MW-2.
8/5/2002	GRASP Groundwater Monitoring		10/31/02	KHM Environmental Management, Inc. (KHM)	Dry well.

SUMMARY (CONT.)					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
11/2002	GRASP Tier I Site Assessment	One exploratory soil boring (SB-1)	5/5/03	KHM	Based on low vapor readings, no soil samples were retained for analysis.
5/2003	SBCFD Letter		5/9/03	SBCFD	No further action required.
6/2004	Phase I Environmental Site Assessment		6/23/04	Artemis	
8/2004	UST Removal	17 soil samples from beneath USTs, dispensers, and piping	10/12/04	DELTA	Four 10,000-gallon USTs, four product dispensers, and product piping removed.
9/2004	UST Closure Report and Limited Over-Excavation Results	Nine confirmation soil samples from beneath USTs, dispensers, and piping	10/12/04	DELTA	184 tons of soil removed.
9/2004	URR		9/14/04	DELTA	
10/28/04	SBCFD Letter		10/28/04	SBCFD	Request Work Plan to determine extent of hydrocarbon contamination and depth to groundwater.
2/2005	Work Plan for Site Assessment Activities		2/18/05	DELTA	Proposed exploratory soil borings (B-1 through B-8) to groundwater.
3/8/05	SBCFD Letter		3/8/05	SBCFD	Conditionally approved Work Plan.

SUMMARY (CONT.)					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
6/2005	Work Plan for Well Abandonment		6/24/05	DELTA	Propose abandonment of Well MW-2.
7/2005	Addendum to Work Plan for Site Assessment		7/1/05	DELTA	Proposed four on-site groundwater monitoring wells (MW-1, MW-3, MW-4, and MW-6) and one off-site groundwater monitoring well (MW-5).
7/12/05	SBCFD Letter		7/12/05	SBCFD	Conditionally approving Work Plan; request additional boring near B-2 and provision for soil remediation.
8/2005	Well Abandonment		11/7/05	DELTA	Abandoned Well MW-2 (historically dry).
8/2005	Confirmation of Verbal Approval: Relocation of Proposed Well MW-4		8/15/05	DELTA	Well MW-4 relocated, will serve to define the vertical extent of hydrocarbon impact detected at previous boring B-2.
5/2005 and 8/2005	Site Assessment and Monitoring Well Installation Report	Six soil borings (B-1 through B-6) and four groundwater monitoring wells (MW-1, MW-3 through MW-5)	11/11/05	DELTA	Per 9/29/05 communication with Lisa Holst (SBCFD), off-site well not completed as part of this assessment. SBCFD will evaluate for off-site well.

SUMMARY (CONT.)					
Date	Activity / Method	No. of Borings / Samples	Report Date:	Agency / Consultant	Comments
11/17/05	SBCFD Letter		11/17/05	SBCFD	Request quarterly groundwater monitoring and work plan for soil remediation pilot testing.
12/2005	Start Quarterly Groundwater Monitoring		Various	DELTA	Monitored wells MW-1, MW-3, MW-4, and MW-5
1/2006	Work Plan for SVE Well Installation and Pilot Test		1/16/06	DELTA	Proposed the installation of four on-site SVE wells (SVE-1 through SVE-4)
3/24/06	SBCFD Letter		3/24/06	SBCFD	Requested Addendum to Work Plan to consider replacement and modified drilling depth of SVE wells.
5/2006	Addendum to Work Plan for SVE Well Installation and Pilot Test		5/18/06	DELTA	Addressing SBCFD concerns, SVE-1 will be dual nested and will drill past 100 feet to determine methyl tert-butyl ether (MTBE) concentrations.
8/2006	Addendum to Work Plan for SVE Well Installation and Pilot Test		8/7/05	DELTA	Schedule for work action.
8/2006	SBCFD Letter		8/14/2006	SBCFD	Conditionally approved Addendum to Work Plan and schedule.

REGIONAL GEOLOGY AND HYDROGEOLOGY

The site lies within the Upper Santa Ana River Valley and is underlain by the older alluvial fan deposits of sand and gravel of early Pleistocene-age. The area is bounded to the north by the Santa Ana River, the La Loma Hills to the West, the Blue Mountains to the East, and the Box Springs Mountains to the south. These surrounding hills and mountains are composed of impermeable quartz diorite to granodiorite, part of the large batholith characteristic of the Peninsular Ranges (Dibblee, 2003).

The site appears to be located in the Riverside-Arlington Sub-basin underlying part of the Santa Ana River Valley. The sub-basin is bounded by the impermeable plutonic rocks in all directions and the Rialto-Colton fault in the northeast. The groundwater basin occurs mostly in the alluvial deposits of Quaternary age deposited by the Santa Ana River and its tributaries. The Rialto-Colton fault provides a groundwater barrier flow along its length and separates the sub-basin from the Rialto-Colton Sub-basin. Recharge occurs by infiltration from the Santa Ana River flow, from the nearby Chino Sub-basin, and deep percolation of precipitation.

WATER WELL SURVEY

The nearest identified active water supply well is State Well No. 02S/04W-05C01S. The well is located approximately 951 feet south of the site and is owned by the City of Riverside Water Division Public Utilities Department (CRWDPUD). Average static groundwater in this well is reported at 156 feet below ground surface (bgs).

Two additional active public wells owned by the CRWDPUD have been identified by DELTA and field verified within a one-mile radius of the site. Van Buren Well No. 01 (State Well No. 02S/04W-05E01S) was field verified as being located 2,707 feet southwest of the site. Van Buren Well No. 02 (State Well No. 02S/04W-05E02S) was field verified as being located 3,210 feet southwest of the site. Depth to groundwater for the two wells was reported on April 1, 1991 at 130.8 and 151.2 feet bgs, respectively (Texaco, 1992).

Three municipal wells owned by the Riverside Highland Water Company (RHWC) have been identified and field verified by DELTA within a half-mile radius of the site. Well RN 6 (State Well No. 02S/04W-05F03S) was field verified as being located 2,021 feet south of the site. Linda Vista Well No. 01 (State Well No. 01S/04W-32M01S) was field verified as being located 2,330 feet north of the site. Linda Vista Well No. 03 (State Well No. 01S/04W-32M04S) was field verified as being located 2,562 feet northwest of the site. The current status and depth to groundwater information of these wells is not known. An additional well owned by the RHWC, Linda Vista Well No. 02 (State Well No. 01S/04W-32M00S) has been identified as being located approximately located 2,835 feet north of the site.

SUBSURFACE CONDITIONS

The site is generally underlain by well-graded and poorly-graded sands with gravel, silty sands, sandy silt, and silt to the total depth explored of approximately 170 feet bgs. Boring logs are included as Appendix B.

Static depth to groundwater levels, as measured during third quarter 2006 groundwater monitoring activities on July 26, 2006 ranged from 137.17 to 139.72 feet bgs. The groundwater gradient beneath the site was

towards the southwest at approximately 0.009 feet per foot (ft/ft).

HYDROCARBON DISTRIBUTION IN SOIL

Previous environmental activities have identified petroleum hydrocarbon and fuel oxygenate-impact to soil beneath the subject site.

During site assessment and well installation activities in May 2005, the highest concentrations of petroleum hydrocarbons were generally detected in soil samples collected from the 35 to 70-foot sample interval in boring B-2, with the exception of sample MW-5d35. Well MW-4 was drilled adjacent to B-2 to provide further vertical definition in that area. With the exception of total petroleum hydrocarbons as diesel (TPH-d), petroleum hydrocarbons were not detected in soil samples collected from depths greater than 105 feet bgs in Well MW-4.

The highest concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX compounds) were generally detected in soil samples collected from borings B-1, B-2, and B-4, located within the former UST pit. BTEX compounds were detected at maximum concentrations of 1.5 mg/kg, 90 mg/kg, 49 mg/kg, and 317 mg/kg in sample B-2d55, respectively. Benzene and toluene were detected only in borings B-1, B-2, and B-4, located within the former UST pit, at depths at and above 70 feet bgs and with a minimum of 30 feet of non-detect soil samples collected beneath the deepest detection. Ethyl-benzene and total-xylenes were detected only in borings B-1, B-2, and B-4, located within the former UST pit, and Well MW-5, located west of the former dispensers, and at depths above 85 feet bgs. However, BTEX compounds were not detected in soil samples collected from boring B-3, drilled at the eastern edge of the UST pit.

MTBE and tert-butyl alcohol (TBA) were detected at maximum concentrations of 9.5 mg/kg (B-2d80) and 20 mg/kg (B-1d30), respectively. Tert amyl methyl ether (TAME) was detected in four soil samples analyzed at concentrations ranging from 0.012 (B-6d40) to 0.025 mg/kg (B-1d65). Di-isopropyl ether (DIPE), ethyl tert butyl ether (ETBE), and ethanol were not detected in any of the soil samples analyzed.

Fuel oxygenates were not detected in any soil sample collected from boring B-5 and Well MW-3, drilled to the south of the former USTs, and were not detected in any boring or well location below 100 feet bgs (in boring and well locations that extended to depths greater than 100 feet).

HYDROCARBON DISTRIBUTION IN GROUNDWATER

During the third quarter groundwater monitoring and sampling activities on July 26, 2006, TPH-g was detected in one on-site well, MW-1, at a concentration of 63 micrograms per liter (ug/L). Ethyl-benzene was detected in one on-site well, MW-1, at a concentration of 0.63 ug/L. TPH-d, benzene, toluene, xylenes, fuel oxygenates, and ethanol were not detected in any groundwater sample collected.

SVE WELL INSTALLATION ACTIVITIES

PREFIELD ACTIVITIES

On September 21, 2006 DELTA supervised the geophysical survey of the proposed SVE well locations performed by ULS Services Corporation, a utility locator contractor. DELTA personnel marked the boring locations and contacted Underground Services Alert (USA) 48 hours prior to drilling, arranged the drilling schedule, and coordinated with a drilling contractor to mobilize drilling equipment and materials. A site-specific health and safety plan was prepared by DELTA prior to initiating field activities, and notifications regarding the field activities were made in advance to the appropriate agencies and property owner.

DRILLING AND SAMPLE COLLECTION

On September 28, 2006, Test America Drilling (TA), supervised by a DELTA geologist, cleared the four drilling locations with airknife equipment to depths of approximately 8 feet bgs.

On October 2 through 4, 2006, TA, supervised by a DELTA geologist, drilled one soil boring to approximately 120 feet bgs and three soil borings to approximately 65 feet bgs. All of the borings were converted to soil vapor extraction wells (SVE-1A, SVE-1B, SVE-2, SVE-3, and SVE-4), shown on Figure 2. The exploratory borings were drilled using a CME-95 drilling rig equipped with hollow stem augers.

Soil samples were attempted at five-foot intervals, beginning at 10 feet bgs, using a 2-inch diameter California modified split spoon sampler equipped with brass sample sleeves. At each sampling interval, the soil samples were logged by the field geologist using the Unified Soil Classification System (USCS) and samples were retrieved in 2-inch diameter brass sleeves. The sleeves of samples from depths of 85 feet bgs to 120 feet bgs of SVE-1 were sealed at each end with Teflon™ - lined plastic endcaps and labeled in accordance with specified sampling procedures. The brass sleeves were stored on ice for transport to a State-certified analytical laboratory along with the appropriate chain-of-custody documentation. Soil analytical data is presented in Table 2 and displayed on Figure 3.

During sampling operations, all soil samples were field screened for the presence of volatile organic compounds (VOCs) by headspace analysis using a photo-ionization detector (PID) calibrated to 100 parts per million by volume (ppmv) of isobutylene. PID readings, lithology, and field observations are documented on the boring logs presented in Appendix B.

WELL INSTALLATION

The exploratory boring for Well SVE-1 was drilled to a depth of approximately 120 feet bgs and then converted to a dual-nested SVE well using two-inch and four-inch diameter Schedule 40 PVC casing with 0.010-inch slotted screen. Well SVE-1 was completed with a shallow screened zone from approximately 40 to 65 feet bgs (SVE-1A), and a deep screened zone from approximately 80 to 105 feet bgs (SVE-1B). The boring was backfilled with bentonite grout from 106 to 120 feet bgs. The well annulus was backfilled with No. 2/12 sand from 78 to 106 feet bgs (two feet above the deep screened interval), followed by a hydrated bentonite chip seal to approximately 75 feet bgs, followed by bentonite grout to 66 feet bgs, followed by No. 2/12 sand to approximately 38 feet bgs (two feet above the shallow screened interval), followed by a three-

foot hydrated bentonite chip seal and bentonite grout to approximately one foot below the surface.

The exploratory borings for wells SVE-2, SVE-3, and SVE-4 were drilled to depths of approximately 65 feet bgs. The soil borings were converted to SVE wells using four-inch diameter Schedule 40 PVC casing with 0.010-inch slotted screen. The SVE wells were screened between 40 and 65 feet bgs. The well annulus was backfilled with No. 2/12 sand to approximately two feet above the screened interval, followed by a three-foot hydrated bentonite seal and bentonite grout to approximately one foot below the surface.

A locking cap was placed on each wellhead, which was enclosed in a flush-mounted traffic-rated vault. Well construction details are displayed in the boring logs (Appendix B).

ANALYTICAL PROGRAM

Soil samples were analyzed by Test America Analytical Testing Corporation (TAA), in Irvine, a State-certified laboratory for the presence of TPH-g using the California Department of Health Services (DHS) Leaking Underground Fuel Tank (LUFT) method. BTEX compounds, MTBE, TBA, TAME, ETBE, DIPE, and ethanol were analyzed using Environmental Protection Agency (EPA) Full Scan 8260B.

Soil analytical results are summarized in Table 2 and displayed on Figure 3. Certified analytical results and chain-of-custody documentation for soil samples are presented in Appendix C.

WASTE DISPOSAL

Soil cuttings and decontamination rinseate water generated during drilling activities were stored in Department of Transportation (DOT) approved 55-gallon drums. The drums were sealed and labeled in accordance with SHELL's protocols. The waste was temporarily stored on the property pending disposal coordination.

The soil and rinseate water were transported off-site by American Integrated Services (AIS) for disposal at an appropriate disposal facility in Southern California designated by SHELL. Copies of the waste inventory records are presented in Appendix D.

SOIL ANALYTICAL RESULTS

Soil samples from SVE-1 at depths between 85 and 120 feet bgs were submitted to TAA for analysis. MTBE was detected in samples from 85 to 100 feet bgs from SVE-1 with a maximum concentration of 0.19 mg/kg in sample SVE-1d85. TBA was detected in one sample from SVE-1 at a depth of 85 feet bgs with a concentration of 0.21 mg/kg. TPH-d, TPH-g, BTEX compounds, TAME, DIPE, ETBE, and ethanol were not detected in any soil samples analyzed. Soil analytical results are presented in Table 2 and illustrated on Figure 3.

PILOT TESTING

SVE PILOT TESTS

The primary objective of the SVE pilot test was to obtain data on vapor extraction parameters including:

1. Vapor flow rates from the test wells;
2. Hydrocarbon concentration versus time in the extracted soil vapors; and
3. Radius-of-influence (ROI) of the SVE system on the vadose zone.

ROI is generally defined as the distance measured from an extraction well to a point where normalized observed vacuum equals 1% of the applied vacuum. A minimum of 0.1 inches of water is considered the lowest accurate measurement for the purpose of this test. Normalized observed vacuum is defined as the ratio of observed vacuum to applied vacuum. Normalized applied vacuum is defined as 100 percent of the applied vacuum or 1. The ROI values provide a basis for determining an appropriate well spacing/grid of vapor extraction wells.

The parameters are used to evaluate the effectiveness of SVE technology to capture residual hydrocarbon concentrations in soils beneath the site and to evaluate if additional wells are needed to address remediation at the site. In addition, the pilot tests facilitated collection of field data necessary to design a full-scale SVE system.

A portable SVE unit equipped with thermal oxidation equipment (therm-ox) was used to perform the pilot test. Extracted vapors were destroyed by the therm-ox. Aboveground piping protected by hose ramps was run from the therm-ox to the extraction wells. Instrument and sample ports were located on a straight section of PVC pipe prior to vapors entering the therm-ox unit.

SVE PILOT STUDY DESCRIPTION

The SVE pilot study consisted of two distinct tests types:

1. Step Tests to evaluate flow versus vacuum and ROI.
2. An Extended Test to evaluate hydrocarbon concentration versus time.

The Step Test and Extended Test were conducted on Well SVE-4. Additional step tests were conducted on wells SVE-1A, SVE-1B and MW-4.

SVE STEP TEST OPERATION

An SVE step test was conducted on Well SVE-1A on October 10, 2006.

1. Soil vapors were extracted from Well SVE-1A for approximately 2.25 hours.
2. Applied vacuum on the test well was measured.

3. Nearby wells SVE-1B, SVE-2, SVE-3, SVE-4, MW-1, MW-3, and MW-4, (which are 0.0, 28.2, 57.5, 31.4, 63.0, 43.1 and 29.0 feet from Well SVE-1A, respectively) were used as observation wells.
4. Vacuum influence was monitored approximately every 15 minutes.
5. Vacuum readings for the extraction well were taken using a manometer and the vacuum gauge on the SVE unit; readings for the observation wells were taken using a manometer.
6. Vapor flow rates were measured on the test well.
7. Flow rates were determined using a pitot tube and manometer.
8. Vapor samples were measured in the field using a PID for hydrocarbons.
9. Soil vapor samples were collected at the beginning, middle, and end of the Step Test for laboratory analysis of TPH-g (EPA Method TO-3), BTEX compounds and fuel oxygenates (EPA Method TO-15), and nitrogen, methane, carbon dioxide, carbon monoxide, and oxygen [American Society for Testing and Materials (ASTM) Method D-1946 ("Fixed Gas Analysis")].

The following is a summary of the Step Test conducted on Well SVE-1A:

- Step 1: Vacuum set at an average of 1.46 inches of mercury (inches of Hg) for 45 minutes.
- Step 2: Vacuum set at an average of 3.44 inches of Hg for 45 minutes.
- Step 3: Vacuum set at an average of 5.35 inches of Hg for 45 minutes.

A summary of the Step Test field data is provided in Table 3. Field data sheets are provided in Appendix E.

An SVE step test was conducted on Well SVE-1B on October 10, 2006.

1. Soil vapors were extracted from Well SVE-1B for approximately 2.25 hours.
2. Applied vacuum on the test well was measured.
3. Nearby wells SVE-1A, SVE-2, SVE-3, SVE-4, MW-1, MW-3, and MW-4 (which are 0.0, 28.2, 57.5, 31.4, 63.0, 43.1, and 29.0 feet from Well SVE-1B, respectively) were used as observation wells.
4. Vacuum influence was monitored approximately every 15 minutes.
5. Vacuum readings for the extraction well were taken using a manometer and the vacuum gauge on the SVE unit; readings for the observation wells were taken using a manometer.
6. Vapor flow rates were measured on the test well.
7. Flow rates were determined using a pitot tube and manometer.
8. Vapor samples were measured in the field using a PID for hydrocarbons.

9. Soil vapor samples were collected at the beginning and end of the Step Test for laboratory analysis of TPH-g (EPA Method TO-3), BTEX compounds and fuel oxygenates (EPA Method TO-15), and Fixed Gas Analysis (ASTM Method D-1946).

The following is a summary of the Step Test conducted on Well SVE-1B:

- Step 1: Vacuum set at an average of 1.09 inches of Hg for 45 minutes.
- Step 2: Vacuum set at an average of 2.11 inches of Hg for 45 minutes.
- Step 3: Vacuum set at an average of 3.03 inches of Hg for 45 minutes.

A summary of the Step Test field data is provided in Table 4. Field data sheets are provided in Appendix E.

An SVE step test was conducted on Well SVE-4 on October 11, 2006.

1. Soil vapors were extracted from Well SVE-4 for approximately 2.25 hours.
2. Applied vacuum on the test well was measured.
3. Nearby wells SVE-1A, SVE-1B, SVE-2, SVE-3, MW-1, MW-3, and MW-4 (which are 31.9, 31.9, 43.6, 26.3, 32.0, 74.0, and 37.5 feet from Well SVE-4, respectively) were used as observation wells.
4. Vacuum influence was monitored approximately every 15 minutes.
5. Vacuum readings for the extraction well were taken using a manometer and the vacuum gauge on the SVE unit; readings for the observation wells were taken using a manometer.
6. Vapor flow rates were measured on the test well.
7. Flow rates were determined using a pitot tube and manometer.
8. Vapor samples were measured in the field using a PID for hydrocarbons.
9. Soil vapor samples were collected at the beginning and end of this Step Test for laboratory analysis of TPH-g (EPA Method TO-3), BTEX compounds and fuel oxygenates (EPA Method TO-15), and Fixed Gas Analysis (ASTM Method D-1946).

The following is a summary of the Step Test conducted on Well SVE-4:

- Step 1: Vacuum set at an average of 3.30 inches of Hg for 45 minutes.
- Step 2: Vacuum set at an average of 6.60 inches of Hg for 45 minutes.
- Step 3: Vacuum set at an average of 9.66 inches of Hg for 45 minutes.

A summary of the Step Test field data is provided in Table 5. Field data sheets are provided in Appendix E.

An SVE step test was conducted on Well MW-4 on October 11, 2006.

1. Soil vapors were extracted from Well MW-4 for approximately 2.25 hours.
2. Applied vacuum on the test well was measured.
3. Nearby wells SVE-1A, SVE-1B, SVE-2, SVE-3, SVE-4, MW-1, and MW-3 (which are 29.2, 29.2, 8.7, 62.5, 37.5, 63.0, and 47.7 feet from Well MW-4, respectively) were used as observation wells.
4. Vacuum influence was monitored approximately every 15 minutes.
5. Vacuum readings for the extraction well were taken using a manometer and the vacuum gauge on the SVE unit; readings for the observation wells were taken using a manometer.
6. Vapor flow rates were measured on the test well.
7. Flow rates were determined using a pitot tube and manometer.
8. Vapor samples were measured in the field using a PID for hydrocarbons.
9. Soil vapor samples were collected at the beginning and end of this Step Test for laboratory analysis of TPH-g (EPA Method TO-3), BTEX compounds and fuel oxygenates (EPA Method TO-15), and Fixed Gas Analysis (ASTM Method D-1946).

The following is a summary of the Step Test conducted on Well MW-4:

- Step 1: Vacuum set at an average of 0.47 inches of Hg for 45 minutes.
- Step 2: Vacuum set at an average of 1.28 inches of Hg for 45 minutes.
- Step 3: Vacuum set at an average of 1.34 inches of Hg for 45 minutes.

A summary of the Step Test field data is provided in Table 6. Field data sheets are provided in Appendix E.

SVE EXTENDED TEST OPERATION

The Extended Test was conducted on October 12, 2006; it consisted of extracting vapors from Well SVE-4 at an applied vacuum of approximately 9.73 inches of Hg (132.4 inches of water) for eight hours. The following procedures were conducted during the Extended Test:

1. Applied vacuum on the test well was measured.
2. Nearby wells SVE-1A, SVE-1B, SVE-2, SVE-3, MW-1, MW-3, and MW-4 (which are 31.9, 31.9, 43.6, 26.3, 32.0, 74.0, and 37.5 feet from Well SVE-4, respectively) were used as observation wells.
3. Vacuum influence was monitored approximately every 30 minutes.

4. Vacuum readings on the extraction well were taken using a manometer on the piping to the SVE unit; readings on the observation wells were taken using a manometer.
5. Vapor flow rates were measured on the test well.
6. Flow rates were determined using a pitot tube and manometer.
7. Vapor samples were measured in the field using a PID for hydrocarbons.
8. Soil vapor samples were collected from the extraction well at the beginning, approximate mid-point and end of the Extended Test. Soil vapor samples collected during the Extended Test were analyzed for TPH-g (EPA Method TO-3), BTEX compounds and fuel oxygenates (EPA Method TO-15), and Fixed Gas Analysis (ASTM Method D-1946).

A summary of the Extended Test field data is provided in Table 7. Field data sheets are provided in Appendix E.

SVE PILOT TEST FINDINGS

The following sections present the principal findings of SVE pilot test.

Vapor Flow Rates and Applied Vacuum (SVE Step Test)

The results of the SVE Step Test performed on Well SVE-1A are summarized in Table 3 and below:

- Vapor flow rates ranged from approximately 57.4 to 110.9 standard cubic feet per minute (scfm).
- The vapor flow rate generally increased as the vacuum was increased.
- Applied vacuum ranged from approximately 1.41 to 5.37 inches of Hg (19.18 to 73.06 inches of water).

The results of the SVE Step Test performed on Well SVE-1B are summarized in Table 4 and below:

- Vapor flow rates ranged from approximately 62.9 to 305.7 scfm.
- The vapor flow rate generally increased as the vacuum was increased.
- Applied vacuum ranged from approximately 1.08 to 3.03 inches of Hg (14.7 to 41.2 inches of water).

The results of the SVE Step Test performed on Well SVE-4 are summarized in Table 5 below:

- Vapor flow rates ranged from approximately 69.3 to 166.8 scfm.
- The vapor flow rate generally increased as the vacuum was increased.
- Applied vacuum ranged from approximately 3.27 to 9.70 inches of Hg (44.5 to 132.0 inches of water).

The results of the SVE Step Test performed on Well MW-4 are summarized in Table 6 below:

- Vapor flow rates ranged from approximately 84.1 to 387.4 scfm.
- The vapor flow rate generally increased as the vacuum increased.
- Applied vacuum ranged from approximately 0.45 to 1.85 inches of Hg (6.1 to 25.2 inches of water).

Vapor Flow Rates and Applied Vacuum (SVE Extended Test)

The results of the SVE Extended Test performed on Well SVE-4 are summarized in Table 7 and below:

- Vapor flow rates ranged from approximately 165.3 to 194.4 scfm. The average flow rate was approximately 168.3 scfm.
- Average applied vacuum was approximately 9.73 inches of Hg (132.4 inches of water).
- The observed vacuum in Well SVE-1A (31.9 feet from the extraction well) was an average of 9.71 inches of water (7.33% of applied vacuum).
- The observed vacuum in Well SVE-1B (31.9 feet from the extraction well) was an average of 0.52 inches of water (0.37% of applied vacuum).
- The observed vacuum in Well SVE-2 (43.6 feet from the extraction well) was an average of 5.15 inches of water (3.90% of applied vacuum).
- The observed vacuum in Well SVE-3 (26.3 feet from the extraction well) was an average of 11.82 inches of water (8.93% of applied vacuum).
- The observed vacuum in Well MW-1 (32.0 feet from the extraction well) was an average of 0.36 inches of water (0.14% of applied vacuum).
- The observed vacuum in Well MW-3 (74.0 feet from the extraction well) was an average of 0.36 inches of water (0.14% of applied vacuum).
- The observed vacuum in Well MW-4 (37.5 feet from the extraction well) was an average of 0.32 inches of water (0.14% of applied vacuum).

Tables 3 through 7 summarize the data obtained during the SVE Step Tests and Extended Test. A graph presenting average flow rate versus average vacuum during the step tests is presented as Graph 1.

Vapor Concentrations

Data for the field analyzed vapor samples collected from Well SVE-1A during the SVE Step Test are summarized below (Table 3):

- PID concentrations ranged from 325 ppmv to 2,531 ppmv.

Data for the field analyzed vapor samples collected from Well SVE-1B during the SVE Step Test are summarized below (Table 4):

- PID concentrations ranged from 201 to 1,433 ppmv.

Data for the field analyzed vapor samples collected from Well SVE-4 during the SVE Step Test are summarized below (Table 5):

- PID concentrations ranged from 7,870 to overrange (>9,999) ppmv.

Data for the field analyzed vapor samples collected from Well MW-4 during the SVE Step Test are summarized below (Table 6):

- PID concentrations ranged from 30.5 to 93.3 ppmv.

Data for the field analyzed vapor samples collected from Well SVE-4 during SVE Extended Test are summarized below (Table 7):

- PID concentrations were over range (>9,999 ppmv).

Results of the Fixed Gas Analyses (ASTM Method D-1946) on vapor samples collected from wells SVE-1A, SVE-1B, SVE-4, and MW-4 during the SVE pilot tests are summarized in Table 8 and below:

Well	Test & Time	Oxygen (%)	Carbon Dioxide (%)
SVE-1A	Step Test, Beginning	10.9	8.72
SVE-1A	Step Test, End	8.63	10.8
SVE-1B	Step Test, Beginning	7.36	10.8
SVE-1B	Step Test, End	4.14	13.2
SVE-4	Step Test, Beginning	5.00	12.5
SVE-4	Step Test, End	16.5	4.20
MW-4	Step Test, Beginning	6.68	10.1
MW-4	Step Test, End	5.70	10.8
SVE-4	Extended Test, Beginning	12.5	6.33
SVE-4	Extended Test, Midpoint	10.9	8.82
SVE-4	Extended Test, End	13.3	7.04

Results of the hydrocarbon analyses (EPA TO-3 and TO-15) on vapor samples collected from wells SVE-1A, SVE-1B, SVE-4 and MW-4 during the SVE pilot tests are summarized in Table 9 and below:

Well	Test & Time	TPH-g (ppmv)	Benzene (ppmv)	MTBE (ppmv)
SVE-1A	Step Test, Beginning	110	0.052	1.5
SVE-1A	Step Test, End	1,100	8.5	16
SVE-1B	Step Test, Beginning	69	0.10	2.8
SVE-1B	Step Test, End	550	3.3	24
SVE-4	Step Test, Beginning	2,700	40	140
SVE-4	Step Test, End	1,500	16	63
MW-4	Step Test, Beginning	42	0.00072	0.80
MW-4	Step Test, End	63	0.040	4.5
SVE-4	Extended Test, Beginning	1,200	15	44
SVE-4	Extended Test, Midpoint	1,600	25	66
SVE-4	Extended Test, End	1,900	24	64

Complete analytical results are presented in Tables 8 and 9. The certified analytical reports and chain-of-custody documentation are included in Appendix F. A graph of TPH-g, benzene, and MTBE concentrations versus operating time are presented in Graph 2.

Soil Vapor Mass Removal Rate and Total Mass Removed

Subsurface TPH-g vapor concentrations and vapor flow rates were used to calculate the TPH-g mass removal rates and total TPH-g mass removed during the pilot study. The removal rates were calculated based on concentrations and flow rates measured during the test. The results are included in Table 10.

- TPH-g mass removal rates from Well SVE-4 are estimated at 97.16 pounds per day (lbs/day).
- Based on an average TPH-g concentration of 6,421 µg/L, a total of 32.39 pounds (lbs) of TPH-g was removed over an 8-hour period during the Extended Test on Well SVE-4.

Subsurface MTBE vapor concentrations and vapor flow rates were used to calculate the MTBE mass removal rates and total MTBE mass removed during the pilot study. The removal rates were calculated based on concentrations and flow rates measured during the test. The results are included in Table 10.

- MTBE mass removal rates from Well SVE-4 are estimated at 3.18 lbs/day.
- Based on an average MTBE concentration of 210 $\mu\text{g/L}$, a total of 1.06 lbs of MTBE were removed over an 8-hour period during the Extended Test on Well SVE-4.

Subsurface benzene vapor concentrations and vapor flow rates were used to calculate the benzene mass removal rates and total benzene mass removed during the pilot study. The removal rates were calculated based on concentrations and flow rates measured during the test. The results are included in Table 10.

- Benzene mass removal rates from Well SVE-4 are estimated at 1.03 lbs/day.
- Based on an average benzene concentration of 68 $\mu\text{g/L}$, a total of 0.34 lbs of benzene were removed over an 8-hour period during the Extended Test on Well SVE-4.

SVE Radius of Influence

The normalized vacuum influence data and distances from extraction Well SVE-1A to the observation wells with the same screened interval (SVE-2, SVE-3, and SVE-4) were plotted on a semi-logarithmic chart. To estimate SVE ROI for this site, a trendline was drawn between the results for the SVE wells. Supporting data for the plots are tabulated on Table 3 and the ROI plot is presented as Graph 3.

- Data collected for the Step Test with the greatest percentage of applied vacuum resulted in a ROI that was approximately 118 feet.

Well SVE-1B was also tested as an extraction point. The normalized vacuum influence data and distances from extraction Well SVE-1B to the observation wells with deep screened interval (MW-1, MW-3, and MW-4) were plotted on a semi-logarithmic chart. Supporting data for this plot is tabulated on Table 4 and the ROI plot is presented as Graph 4.

- Data collected for the Step Test with the greatest percentage of applied vacuum resulted in a ROI that was approximately 180 feet.

Well SVE-4 was also tested as an extraction point for a Step Test and also an Extended Test. The normalized vacuum influence data and distances from extraction Well SVE-4 to the observation wells with the same screened interval (SVE-1A, SVE-2, and SVE-3) were plotted on a semi-logarithmic chart. Supporting data for this plot is tabulated on Tables 5 and 7 and the ROI plots are presented in Graphs 5 and 6.

- Data collected for the Step Test with the greatest percentage of applied vacuum resulted in a ROI that was approximately 70 feet.
- Data collected from the Extended Test resulted in a ROI that was approximately 71 feet.

Well MW-4 was also tested as an extraction point. The normalized vacuum influence data and distances from extraction Well MW-4 to the observation wells with a similar screened interval (SVE-1B, MW-1, and MW-3) were plotted on a semi-logarithmic chart. Supporting data for this plot is tabulated on Table 6 and the ROI plot is presented as Graph 7.

- Data collected for the Step Test with the greatest percentage of applied vacuum resulted in a ROI that was greater than 63 feet.

A minimum of 0.1 inches of water is considered the lowest accurate measurement for the purpose of this test.

CONCLUSIONS AND RECOMMENDATIONS

Based on results obtained during the SVE well installation and SVE pilot testing activities, DELTA concludes the following:

SOIL VAPOR EXTRACTION WELL INSTALLATION

- Four SVE wells were installed which included a dual nested well screened from 40 to 65 feet bgs and 80 to 105 feet bgs and three single wells screened from 40 to 65 feet bgs.
- Soil samples were collected from the boring for SVE-1 from the depths of 85 to 120 feet bgs. MTBE was detected in samples from 85 to 100 feet bgs at a maximum concentration of 0.19 mg/kg. TBA was detected at a depth of 85 feet bgs at a concentration of 0.21 mg/kg. TPH-g, TPH-d, BTEX compounds, DIPE, ETBE, TAME, and ethanol were not detected in the sampled depth range.

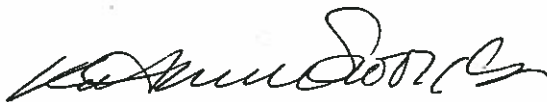
SOIL VAPOR EXTRACTION PILOT TESTING

- An average vapor flow rate of 168.3 scfm was maintained at 9.73 inches of Hg during the extended test.
- TPH-g mass removal rates from Well SVE-4 are estimated to be 97.16 lbs/day.
- MTBE mass removal rates from Well SVE-4 are estimated to be 3.18 lbs/day.
- Benzene mass removal rates from Well SVE-4 are estimated to be 1.03 lbs/day.
- The ROI was calculated to be approximately 71 feet during the SVE Extended Test on Well SVE-4.
- The ROI was calculated to be greater than 63 feet during the SVE Step Test on Well MW-4.
- Results of the SVE pilot test data support vapor extraction as an effective remediation technology for the site due to the ROI values and TPH-g, benzene, and MTBE mass removal rates.

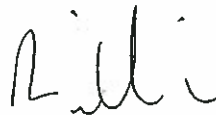
The recommendations contained in this report represent DELTA's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this site assessment report, please call Ms. Katherine Swords (DELTA) or Ms. Monica Ortega (DELTA Project Manager) at (626) 256-6662. The SHELL Project Manager is Mr. Randy Orlowski. Mr. Orlowski can be reached at (949) 360-1111.

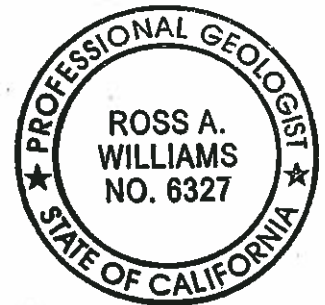
Sincerely,
Delta Environmental Consultants, Inc.



Katherine Swords
Senior Project Engineer



Ross Williams, R.G. 6327
Senior Project Geologist



cc: Mr. Randy Orlowski, Shell Oil Products US
Mr. Fahim Tanios c/o Bleau, Fox & Fong
Mr. Carl Bernhardt, SARWQCB

ATTACHMENTS:

Table 1 – Well/Boring Data

Table 2 – Soil Analytical Data (SVE Well Installation Activities 2006)

Table 3 – Summary of SVE Step Test Monitoring Data (SVE-1A)

Table 4 – Summary of SVE Step Test Monitoring Data (SVE-1B)

Table 5 – Summary of SVE Step Test Monitoring Data (SVE-4)

Table 6 – Summary of SVE Step Test Monitoring Data (MW-4)

Table 7 – Summary of SVE Extended Test Monitoring Data (SVE-4)

Table 8 – Summary of SVE Analytical Data (ASTM D-1946)

Table 9 – Summary of SVE Analytical Data (EPA TO-3 and TO-15)

Table 10 – Summary of Soil Vapor Mass Removal Rates

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3 – Hydrocarbon Distribution in Soil Map

Graph 1 – Average Flow Rate vs. Average Vacuum During Step Tests

Graph 2 – TPH-g, Benzene, and MTBE Influent Concentration vs. Operating Time (SVE-4)

Graph 3 – Radius of Influence Determination Plot (SVE-1A Step Test)

Graph 4 – Radius of Influence Determination Plot (SVE-1B Step Test)

Graph 5 – Radius of Influence Determination Plot (SVE-4 Step Test)

Graph 6 – Radius of Influence Determination Plot (SVE-4 Extended Test)

Graph 7 – Radius of Influence Determination Plot (MW-4 Step Test)

Appendix A – San Bernardino County Fire Department Letters dated March 24, 2006 and August 14, 2006

Appendix B – Boring Logs and Well Details

Appendix C – Certified Analytical Results and Chain-Of-Custody Documentation (Soil)

Appendix D – Waste Inventory Records

Appendix E – SVE Field Data Sheets

Appendix F – Certified Analytical Results and Chain-Of-Custody Documentation (Vapor)

TABLES

Table 1
Well/Boring Data
Former Shell Service Station
22045 Barton Road, Grand Terrace, California

Name	Type	Date		Casing Elevation (ft AMSL)	Total Depth (ft)	Soil Sample Incr. (ft)	Soil Sample Depth (ft)	Depth (ft)	First GW Elev. (ft AMSL)	Screen Diameter (in.)	Screen Depth (ft)		Comments
		Drilled/Installed									Top	Bottom	
SB-1	Boring	12/3/2001		-	81	5	65, 71, 75, 80	-	-	-	-	-	IT
MW-2	GRASP Well	11/29/2001		-	112	5	65, 70, 75, 80	-	-	4	54	78	Abandoned 8/29/2005
SB-3	Boring	11/30/2001		-	82	5	65, 70, 75, 80	-	-	-	-	-	IT
SB-4	Boring	12/3/2001		-	81	5	51, 61, 71, 80	-	-	-	-	-	IT
SB-5	Boring	11/30/2001		-	82	5	65, 70, 75, 80	-	-	-	-	-	IT
SB-1A	Boring	11/6/2002		-	135	5; 10; 5	10-70; 70-100; 100-135	-	-	-	-	-	KHM, GRASP
B-1	Boring	5/9/2005		-	100	5	10-100	-	-	-	-	-	DELTA
B-2	Boring	5/9/2005		-	100	5	10-100	-	-	-	-	-	DELTA
B-3	Boring	5/10/2005		-	90	5	10-90	-	-	-	-	-	DELTA
B-4	Boring	5/10/2005		-	85	5	10-85	-	-	-	-	-	DELTA
B-5	Boring	5/11/2005		-	70	5	10-70	-	-	-	-	-	DELTA
B-6	Boring	5/11/2005		-	80	5	10-80	-	-	-	-	-	DELTA
MW-1	GWM Well	8/16-17/2005		990.55	170	5	10-170	135	855.55	0.010	120	170	DELTA
MW-3	GWM Well	8/8-10/2005		991.14	170	5	10-170	140	851.14	0.010	120	170	DELTA
MW-4	GWM Well	8/11-12 & 15/2005		990.07	170	5	100-170	135	855.07	0.010	120	170	DELTA
MW-5	GWM Well	8/18-19 & 22/2005		989.48	170	5	10-170	135	854.48	0.010	120	170	DELTA
SVE-1A	Dual Nested SVE Well	10/4/2006		-	120	5	85-120	-	-	0.010	40	65	DELTA
SVE-1B	Dual Nested SVE Well	10/4/2006		-	120	5	85-120	-	-	0.010	80	105	DELTA
SVE-2	SVE Well	10/2/2006		-	65	-	-	-	-	0.010	40	65	DELTA
SVE-3	SVE Well	10/3/2006		-	65	-	-	-	-	0.010	40	65	DELTA
SVE-4	SVE Well	10/2/2006		-	65	-	-	-	-	0.010	40	65	DELTA

Notes:
 - = not applicable
 GWM = Groundwater Monitoring
 GRASP = Groundwater Assessment Program
 SVE = Soil Vapor Extraction
 IT = IT Group, Inc.
 KHM = KHM Environmental Management, Inc.
 DELTA = Delta Environmental Consultants, Inc.

Table 2
Soil Analytical Data
Former Shell Service Station
22045 Barton Road, Grand Terrace

Sample Depth (feet)	TPH-g mg/kg	TPH-d mg/kg	Benzene mg/kg	Ethyl benzene mg/kg	Toluene mg/kg	Total Xylenes mg/kg	MTBE mg/kg	BBA mg/kg	DIPB mg/kg	EAEB mg/kg	TAME mg/kg	Ethanol mg/kg	COMMENTS
SVE-1	10/04/06												
85	ND<5.0	ND<0.20	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.0020	0.19	0.21	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
90	ND<5.0	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.019	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
95	ND<5.0	ND<0.18	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0031	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
100	ND<5.0	ND<0.19	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	0.0059	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
105	ND<5.0	ND<0.20	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.0020	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
110	ND<5.0	ND<0.20	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.0020	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
115	ND<5.0	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0020	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	
120	ND<5.0	ND<0.20	ND<0.00099	ND<0.00099	ND<0.00099	ND<0.0020	ND<0.0020	ND<0.020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.30	

ND - Not detected above limit noted
 TPH-g - Total Petroleum Hydrocarbons as gasoline
 TPH-d - Total Petroleum Hydrocarbons as diesel
 MTBE - Methyl tert-butyl ether
 TBA - Tert-butyl alcohol
 ETBE - Ethyl tert-butyl ether
 DIPE - Di-isopropyl ether
 TAME - Tert-amyl methyl ether

TPH- g and TPH-d analyzed using California Department of Health Services (DHS) Leaking Underground Fuel Tank (LUFT) Method.

TABLE 3
SUMMARY OF SVE STEP TEST MONITORING DATA (SVE-1A)
 Former Shell Service Station
 22045 Barton Rd., Grand Terrace, CA

Sample Date	Extraction Well (SVE-1A)				Observation Well (SVE-1B)		Observation Well (SVE-2)		Observation Well (SVE-3)		Observation Well (SVE-4)		Observation Well (MW-1)		Observation Well (MW-3)		Observation Well (MW-4)			
	Sample Time	Vacuum (in. of H ₂ O)	Flow (scfm)	Flow (scfm)	PID Influent Conc. (ppmv)	Dis. from SVE-1A: 0 ft		Dis. from SVE-1A: 28.2 ft		Dis. from SVE-1A: 57.5 ft		Dis. from SVE-1A: 31.4 ft		Dis. from SVE-1A: 63.0 ft		Dis. from SVE-1A: 43.1 ft		Dis. from SVE-1A: 26.0 ft		
						(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)	(% of SVE-1A)	(in. of H ₂ O)
10/10/06	8:25	20.27	1.49	60.4	325	NA	1.69	8.24	3.90	1.76	8.68	1.73	1.73	0.35	1.92	0.39	0.39	1.92	0.39	
10/10/06	8:40	20.14	1.48	60.4	875	2.58	1.60	7.95	4.12	1.73	8.59	2.80	2.80	0.42	2.19	0.44	0.42	2.19	0.42	
10/10/06	8:55	19.18	1.41	60.4	1162	0.55	1.62	8.44	4.54	1.73	NA	2.40	2.40	0.44	2.19	0.44	0.44	2.19	0.44	
10/10/06	9:10	19.59	1.44	60.4	1370	3.01	1.68	8.58	4.64	1.83	9.34	2.55	2.55	0.50	2.55	0.50	0.50	2.55	0.50	
10/10/06	9:25	47.21	3.47	78.0	1749	1.33	2.86	6.06	2.48	2.48	6.35	1.06	1.06	0.50	1.06	0.50	0.50	1.06	0.50	
10/10/06	9:40	46.53	3.42	83.5	1948	0.63	3.29	7.07	3.16	3.16	7.44	0.99	0.99	0.46	1.07	0.49	0.49	1.07	0.49	
10/10/06	9:55	46.67	3.43	92.3	2279	1.16	3.28	7.03	3.24	3.24	7.46	0.88	0.88	0.41	0.81	0.38	0.38	0.81	0.38	
10/10/06	10:10	72.79	5.35	110.3	2248	0.81	4.19	5.76	2.29	4.33	5.95	0.51	0.51	0.37	0.51	0.37	0.37	0.51	0.37	
10/10/06	10:25	73.06	5.37	133.2	2531	0.59	4.75	6.50	2.75	4.91	NA	0.45	0.45	0.37	0.51	0.37	0.37	0.51	0.37	
10/10/06	10:40	72.51	5.33	92.3	2266	0.59	4.83	6.66	2.90	5.01	6.91	0.31	0.31	0.32	0.44	0.32	0.32	0.44	0.32	
				Maximum Average				1.65	8.33	4.30	1.76	8.87	0.43	0.43	0.44	2.24	0.44	0.44	2.24	0.44

Notes:
 in. of Hg - inches of Mercury
 in. of H₂O - inches of Water
 ftm - feet per minute
 scfm - standard cubic feet per minute
 scfm - actual cubic feet per minute
 ppmv - parts per million by volume
 Averages for observation well vacuums are based on the step with the maximum percentage of vacuum. (Shown in bold)
 NA - Not Analyzed

* Flow rate (scfm) = Flow rate (scfm) x [Pressure at the gauge (psi) / Pressure atmosphere (psi)]
 † Pressure at the gauge (psi) = Pressure atmosphere (psi) / [Pressure atmosphere (psi)]

TABLE 4
SUMMARY OF SVE STEP TEST MONITORING DATA (SVE-1B)
Former Shell Service Station
22945 Barton Road, Grand Terrace, CA

Sample Date	Extraction Well (SVE-1B)		Observation Well (SVE-2)		Observation Well (SVE-3)		Observation Well (SVE-4)		Observation Well (MW-1)		Observation Well (MW-3)		Observation Well (MW-4)											
	Sample Time	Flow (scfm)	Flow (scfm)	Dis. from SVE-1B: 28.2 ft	Dis. from SVE-1B: 57.5 ft	Dis. from SVE-1B: 31.4 ft	Dis. from SVE-1B: 63 ft	Dis. from SVE-1B: 43.1 ft	Dis. from SVE-1B: 63 ft	Dis. from SVE-1B: 43.1 ft	Dis. from SVE-1B: 43.1 ft	Dis. from SVE-1B: 29 ft	Dis. from SVE-1B: 29 ft	Dis. from SVE-1B: 29 ft										
	Vacuum (in. of H ₂ O)	Vacuum (in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)	(% of SVE-1B)	(in. of H ₂ O)										
10/10/06	11:10	14.7	1.08	65.3	63.9	201	0.78	5.31	3.88	0.57	0.43	2.93	0.43	0.55										
10/10/06	11:35	14.8	1.09	78.0	75.2	576	0.61	4.11	NA	0.35	0.40	2.70	0.48	0.55										
10/10/06	11:40	14.8	1.09	92.3	88.9	561	0.57	3.84	1.75	0.38	0.48	2.56	0.48	0.52										
10/10/06	11:55	15.1	1.11	104.7	100.8	1205	0.50	3.31	NA	0.42	0.35	2.32	0.42	0.48										
10/10/06	12:10	28.8	2.12	246.7	239.2	1292	0.62	2.15	0.73	0.47	0.57	1.98	0.67	0.67										
10/10/06	12:25	28.7	2.11	246.7	239.3	1433	0.76	2.65	1.01	0.50	0.53	2.37	0.68	0.76										
10/10/06	12:40	28.6	2.10	246.7	239.4	1339	0.75	2.63	0.85	0.60	0.50	1.75	0.65	0.72										
10/10/06	12:55	41.2	3.03	292.0	262.4	1265	0.98	2.38	NA	0.76	0.68	1.65	0.91	1.00										
10/10/06	13:10	41.2	3.03	340.1	302.7	1201	1.05	2.35	1.16	0.84	0.76	1.84	0.95	1.11										
10/10/06	13:25	41.2	3.03	312.1	280.5	1133	1.15	2.79	1.21	0.95	0.76	1.84	1.00	1.09										
Maximum Averages													0.62	4.14	0.63	4.21	0.36	2.82	0.56	3.74	2.63	3.05	0.53	3.48

NOTES:
 in. of Hg - Inches of Mercury
 in. of H₂O - Inches of Water
 ftm - feet per minute
 scfm - standard cubic feet per minute
 ppmv - parts per million by volume
 Average for observation well vacuum are based on the step with the maximum percentage of vacuum. (Shown in bold)
 NA - Not Analyzed
 * Flow rate (scfm) = Flow rate (scfm) x (Pressure at the gauge (psi) / Pressure atmosphere (psi))

TABLE 5
SUMMARY OF SVE STEP TEST MONITORING DATA (SVE-4)
Former Shell Service Station
23645 Barton Rd., Grand Terrace, CA

Sample Date	Extraction Well (SVE-4)				Observation Well (SVE-1A)		Observation Well (SVE-1B)		Observation Well (SVE-2)		Observation Well (SVE-3)		Observation Well (MW-1)		Observation Well (MW-3)		Observation Well (MW-4)	
	Vacuum (in. of H ₂ O)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Dis. from SVE-4: 31.9 ft		Dis. from SVE-4: 31.9 ft		Dis. from SVE-4: 43.6 ft		Dis. from SVE-4: 36.3 ft		Dis. from SVE-4: 32.0 ft		Dis. from SVE-4: 74.8 ft		Dis. from SVE-4: 37.5 ft	
					(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)
10/1/06	44.5	3.27	78.0	69.5	NA	0.76	3.18	NA	1.35	3.83	3.71	8.34	0.68	1.53	0.69	1.55	0.79	1.57
10/1/06	11.00	44.9	3.30	92.3	82.1	0.61	3.43	1.36	1.95	4.24	4.97	9.96	0.44	0.98	0.44	0.98	0.45	1.00
10/1/06	11.15	44.9	3.30	78.0	69.4	0.53	3.52	1.18	2.00	4.45	4.67	10.40	0.34	0.76	0.39	0.87	0.37	0.82
10/1/06	11.30	45.2	3.32	78.0	69.3	0.44	3.83	0.97	2.05	4.54	4.75	10.53	0.26	0.58	0.29	0.64	0.29	0.64
10/1/06	11.45	89.2	6.56	135.2	105.6	0.46	6.18	0.52	3.00	3.36	7.45	8.35	0.22	0.26	0.24	0.24	0.23	0.26
10/1/06	12.00	89.8	6.60	110.3	86.0	0.48	6.89	0.53	3.60	4.01	8.50	9.47	0.18	0.20	0.18	0.20	0.21	0.23
10/1/06	12.15	90.5	6.65	156.1	121.4	0.39	6.89	0.43	3.69	4.08	8.69	8.21	0.08	0.09	0.08	0.09	0.10	0.11
10/1/06	12.30	130.5	9.59	234.1	159.1	0.37	8.88	0.28	4.36	3.34	10.71	8.71	0.00	0.00	0.00	0.00	0.00	0.00
10/1/06	12.45	131.8	9.69	246.7	166.8	0.33	9.02	0.25	4.63	3.50	11.48	8.71	0.05**	0.00	0.05**	0.00	0.03**	0.00
10/1/06	13.00	132.0	9.70	246.7	166.7	0.31	9.42	0.23	4.97	3.77	11.78	8.93	0.1**	0.00	0.1**	0.00	0.08**	0.00
						3.47	7.99	1.17	1.84	4.09	4.40	9.80	0.43	0.96	0.45	1.01	0.45	1.01

Notes:
 in. of Hg - Inches of Mercury
 in. of H₂O - Inches of Water
 ftm - feet per minute
 scfm - standard cubic feet per minute
 acfm - actual cubic feet per minute
 scfm - standard cubic feet per minute
 ppmv - parts per million by volume
 Averages for observation well vacuum are based on the step with the maximum percentage of vacuum. (Shows in bold)
 NA - Not Analyzed
 * Flow rate (scfm) = Flow rate (acfm) x (Pressure in the gauge (psi) / Pressure atmosphere (psi))
 ** Positive Pressure not used in ROI calculation

TABLE 6
SUMMARY OF SVE STEP TEST MONITORING DATA (MW-4)
Former Shell Service Station
23045 Barton Road, Grand Terrace, CA

Sample Date	Sample Time	Extraction Well (MW-4)			PID Influent Conc. (ppmv)	Observation Well (SVE-1A) 29.2 ft		Observation Well (SVE-2) 8.7 ft		Observation Well (SVE-3) 62.5 ft		Observation Well (SVE-4) 37.5 ft		Observation Well (MW-1) 63.0 ft		Observation Well (MW-3) 47.7 ft					
		Vacuum (in. of H ₂ O)	Flow (scfm)	Flow (scfm)*		Dis. from MW-4: 29.2 ft		Dis. from MW-4: 8.7 ft		Dis. from MW-4: 62.5 ft		Dis. from MW-4: 37.5 ft		Dis. from MW-4: 63.0 ft		Dis. from MW-4: 47.7 ft					
						(in. of H ₂ O)	(% of MW-4)	(in. of H ₂ O)	(% of MW-4)	(in. of H ₂ O)	(% of MW-4)	(in. of H ₂ O)	(% of MW-4)	(in. of H ₂ O)	(% of MW-4)	(in. of H ₂ O)	(% of MW-4)	(in. of H ₂ O)	(% of MW-4)		
10/1/06	7:55	6.3	91.3	90.9	30.5	0.25	3.99	0.76	12.14	0.36	NA	0.18	2.88	0.23	3.68	0.85	NA	1.01	16.14		
10/1/06	8:10	6.1	85.5	84.2	46.0	0.27	4.41	0.78	12.74	0.38	6.21	0.21	3.43	0.23	4.08	0.85	13.88	1.02	16.66		
10/1/06	8:23	6.4	104.7	103.1	57.3	0.29	4.54	0.78	12.26	0.48	6.26	0.22	3.44	0.26	4.07	0.88	13.76	1.03	16.11		
10/1/06	8:40	6.5	85.5	84.1	57.3	0.25	5.36	0.87	13.33	0.48	7.35	0.33	5.05	0.37	5.67	0.99	15.16	1.14	17.46		
10/1/06	8:55	17.7	130	127.1	62.0	0.30	2.83	1.21	8.84	0.59	3.34	0.43	2.37	0.48	2.71	1.71	9.78	2.01	11.36		
10/1/06	9:10	17.6	129	127.7	60.1	0.38	3.30	1.65	9.46	0.77	4.30	0.46	2.39	0.55	3.19	1.85	10.54	2.16	12.31		
10/1/06	9:25	17.0	125	121.7	63.3	0.65	3.82	1.75	10.29	0.91	3.35	0.55	3.33	0.62	3.55	1.92	11.35	2.33	13.20		
10/1/06	9:40	25.2	185	182.9	72.1	0.83	3.30	2.23	8.86	1.09	4.33	0.73	2.90	0.82	2.86	2.48	9.85	2.88	11.44		
10/1/06	9:55	14.6	107	102.2	81.1	0.85	5.84	2.04	14.01	1.15	7.90	0.74	5.08	0.83	5.70	2.19	13.04	2.49	17.10		
10/1/06	10:10	14.8	109	112.1	93.3	0.85	5.73	1.97	13.28	1.11	7.49	0.75	5.06	0.82	5.53	2.08	14.03	2.41	16.25		
					Maximum Average																
					0.84	4.96	0.81	12.60	0.42	6.68	0.74	4.35	0.82	4.83	0.91	14.27	1.06	16.59			

Notes:
 in. of Hg - inches of Mercury
 in. of H₂O - inches of Water
 ftm - feet per minute
 scfm - actual cubic feet per minute
 ppmv - parts per million by volume
 Average for observations with vacuum are based on the step with the maximum percentage of vacuum. (Shown in bold)
 NA - Not Analyzed
 * Flow rate (scfm) = Flow rate (acfm) * (Pressure at the gauge (psi) + Pressure atmosphere (psi)) / Pressure atmosphere (psi)

TABLE 7
SUMMARY OF SVE EXTENDED TEST MONITORING DATA (SVE-4)
 Formco Shell Service Station
 23045 Barron Road, Grand Terrace, CA

Sample Date	Sample Time	Extraction Well (SVE-4)		Flow (scfm)	Flow (cfm)	Flow (scfm)*	PID Inlet Conc. (ppmv)	Observation Well (SVE-1A)		Observation Well (SVE-1B)		Observation Well (SVE-2)		Observation Well (SVE-3)		Observation Well (MW-1)		Observation Well (MW-3)		Observation Well (MW-4)	
		Vacuum (in. of H ₂ O)	(in. of Hg)					(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)	(in. of H ₂ O)	(% of SVE-4)
10/12/06	7:40	136.1	10.00	292.0	194.4	>9999 (OR)	7.06	5.19	0.47	0.35	2.74	3.01	7.87	5.78	2.20	0.15	0.22	0.16	0.22	0.16	0.16
10/12/06	8:10	132.6	9.75	246.7	166.3	>9999 (OR)	9.84	7.42	0.87	0.66	5.23	3.94	11.88	8.96	0.44	0.31	0.44	0.33	0.43	0.33	0.32
10/12/06	8:40	132.6	9.75	246.7	166.3	>9999 (OR)	10.23	7.71	1.03	0.78	5.67	4.37	12.50	9.42	0.57	0.43	0.59	0.44	0.62	0.44	0.47
10/12/06	9:10	133.3	9.80	246.7	165.9	>9999 (OR)	10.37	7.78	1.02	0.77	5.74	4.31	12.64	9.48	0.59	0.44	0.57	0.43	0.62	0.44	0.44
10/12/06	9:40	134.3	9.87	246.7	165.9	>9999 (OR)	10.38	7.66	0.94	0.70	5.69	4.24	12.56	9.35	0.50	0.39	0.52	0.39	0.59	0.44	NA
10/12/06	10:10	133.3	9.80	246.7	165.9	>9999 (OR)	10.30	7.73	0.89	0.67	5.64	4.33	12.55	9.41	0.43	0.32	0.41	0.31	0.45	0.34	0.34
10/12/06	10:40	133.3	9.80	246.7	165.9	>9999 (OR)	10.16	7.62	0.78	0.59	5.51	4.13	12.38	9.29	0.30	0.23	0.26	0.20	0.31	0.23	0.23
10/12/06	11:10	133.3	9.80	246.7	165.9	>9999 (OR)	9.89	7.49	0.59	0.44	5.43	4.07	12.27	9.20	0.16	0.12	0.13	0.10	0.16	0.11	0.08
10/12/06	11:40	132.9	9.70	246.7	166.1	>9999 (OR)	9.80	7.44	0.55	0.41	5.37	4.04	12.09	9.09	0.09	0.07	0.08	0.06	0.11	0.08	0.08
10/12/06	12:10	131.7	9.68	246.7	166.7	>9999 (OR)	9.75	7.39	0.42	0.32	5.34	3.97	11.90	9.02	0.02**	0.00	0.01**	0.00	0.04**	0.00	0.00
10/12/06	12:40	131.7	9.64	246.7	167.2	>9999 (OR)	9.78	7.43	0.36	0.27	5.25	3.89	11.85	9.07	0.15**	0.00	0.07**	0.00	0.04**	0.00	0.00
10/12/06	13:10	130.5	9.59	246.7	167.7	>9999 (OR)	9.67	7.37	0.33	0.18	5.15	3.93	11.88	9.06	0.23**	0.00	0.23**	0.00	0.17**	0.00	0.00
10/12/06	13:40	130.5	9.59	246.7	167.7	>9999 (OR)	9.36	7.35	0.13	0.10	4.87	3.81	11.67	8.94	0.39**	0.00	0.39**	0.00	0.35**	0.00	0.00
10/12/06	14:10	130.5	9.59	246.7	167.7	>9999 (OR)	9.54	7.31	0.07	0.05	5.02	3.85	11.72	8.98	0.4**	0.00	0.39**	0.00	0.36**	0.00	0.00
10/12/06	14:40	130.6	9.60	246.7	167.6	>9999 (OR)	9.51	7.28	0.01**	0.00	4.97	3.81	11.68	8.94	0.46**	0.00	0.46**	0.00	0.41**	0.00	0.00
10/12/06	15:10	131.7	9.68	246.7	166.9	>9999 (OR)	9.53	7.24	0.00	0.00	5.00	3.80	11.68	8.87	0.47**	0.00	0.5**	0.00	0.4**	0.00	0.00
10/12/06	15:40	130.6	9.60	246.7	167.6	>9999 (OR)	9.54	7.30	0.00	0.00	5.01	3.84	11.70	8.96	0.48**	0.00	0.46**	0.00	0.41**	0.00	0.00
Average		132.4	9.73	249.4	168.3	>9999 (OR)	9.71	7.33	0.52	0.37	5.15	3.90	11.82	8.93	0.36	0.14	0.36	0.14	0.32	0.14	0.14

Notes:
 in. of Hg - inches of Mercury
 in. of H₂O - inches of Water
 ftm - feet per minute
 scfm - standard cubic feet per minute
 acfm - standard cubic feet per minute
 ppmv - parts per million by volume
 NA - Not Analyzed

* Flow rate (scfm) = Flow rate (acfm) x (Pressure at the gauge (psi) + Pressure atmosphere (psia)) / Pressure atmosphere (psia)
 ** Positive Pressure not used in ROI calculation

TABLE 8
SUMMARY OF SVE ANALYTICAL DATA (ASTM D-1946)
 Former Shell Service Station
 22045 Barton Road, Grand Terrace, CA

Sample Date (mm/dd/yy)	Sample ID	O ₂ (%)	N ₂ (%)	CH ₄ (%)	CO (%)	CO ₂ (%)
10/10/2006	SVE-1A Step Start	10.9	80.4	ND<0.100	ND<0.100	8.72
10/10/2006	SVE-1A Step End	8.63	80.5	ND<0.100	ND<0.100	10.8
10/10/2006	SVE-1B Step Start	7.36	81.8	ND<0.100	ND<0.100	10.8
10/10/2006	SVE-1B Step End	4.14	82.6	ND<0.100	ND<0.100	13.2
10/11/2006	SVE-4 Step Start	5.00	82.5	ND<0.100	ND<0.100	12.5
10/11/2006	SVE-4 Step End	16.5	79.3	ND<0.100	ND<0.100	4.20
10/11/2006	MW-4 Step Start	6.68	83.2	ND<0.100	ND<0.100	10.1
10/11/2006	MW-4 Step End	5.70	83.5	ND<0.100	ND<0.100	10.8
10/12/2006	SVE-4 Ext. Start	12.5	81.2	ND<0.100	ND<0.100	6.33
10/12/2006	SVE-4 Ext. Mid Pt	10.9	80.3	ND<0.100	ND<0.100	8.82
10/12/2006	SVE-4 Ext. End	13.3	79.6	ND<0.100	ND<0.100	7.04

Abbreviations & Notes:

- O₂ = Oxygen
- N₂ = Nitrogen
- CH₄ = Methane
- CO = Carbon Monoxide
- CO₂ = Carbon Dioxide

TABLE 9
Summary of SVE Analytical Data (EPA TO-3 and TO-15)
Shell Service Station
22045 Barton Road, Grand Terrace, California

Sample Date (mm/dd/yy)	Sample ID	TPH _g		Benzene		Toluene (ppmv)	Ethylbenzene (ppmv)	Xylenes (ppmv)	MTBE		TBA (ppmv)	DIPE (ppmv)	ETBE (ppmv)	TAME (ppmv)
		(ppmv)	(ug/l)*	(ppmv)	(ug/l)				(ppmv)	(ug/l)				
10/10/2006	SVE-1A Step Start	110	451	0.052	0.17	0.14	0.023	0.328	1.5	5.4	ND<0.060	ND<0.060	ND<0.060	ND<0.060
10/10/2006	SVE-1A Step End	1100	4,508	8.5	27	31	1.9	8.8	16	56	ND<0.067	ND<0.067	ND<0.067	ND<0.067
10/10/2006	SVE-1B Step Start	69	283	0.1	0.32	0.8	0.15	0.84	2.8	10	ND<0.032	ND<0.032	ND<0.032	ND<0.032
10/10/2006	SVE-1B Step End	550	2,254	3.3	11	3.8	0.63	4.3	24	87	ND<0.3	ND<0.3	ND<0.3	ND<0.3
10/11/2006	SVE-4 Step Start	2700	11,066	40	130	150	17	84	140	490	ND<1.5	ND<1.5	ND<1.5	ND<1.5
10/11/2006	SVE-4 Step End	1500	6,148	16	51	66	4.6	18.2	63	230	ND<0.85	ND<0.85	ND<0.85	ND<0.85
10/11/2006	MW-4 Step Start	42	172	0.00072	0.0023	0.005	0.0023	0.017	0.80	2.9	0.047	ND<0.002	ND<0.002	0.0062
10/11/2006	MW-4 Step End	63	258	0.04	0.130	0.041	ND<0.0088	0.41	4.5	16	ND<0.035	ND<0.035	ND<0.035	ND<0.035
10/12/2006	SVE-4 Ext. Start	1,200	4,918	15	47	64	8.6	31.3	44	160	ND<0.67	ND<0.67	ND<0.67	ND<0.67
10/12/2006	SVE-4 Ext. Mid Pt	1,600	6,557	25	79	95	17	35	66	240	ND<0.88	ND<0.88	ND<0.88	ND<0.88
10/12/2006	SVE-4 Ext. End	1,900	7,787	24	78	110	19	47	64	230	ND<1.1	ND<1.1	ND<1.1	ND<1.1
Extended Test Average:		1,567	6,421	21	68				58.0	210				

Abbreviations & Notes:

TPH_g = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

ppmv = parts per million by volume

ug/l = micrograms per liter

* = Calculated using following formula with an average molecular weight for gasoline of 100 g/mole

$$\text{TPH}_g \text{ Concentration (ug/l)} = \text{TPH}_g \text{ concentration (ppmv)} \times 10^{-6} \times 100 \text{ g/mole} \times \text{mole}/24.4 \text{ l} \times 10^6 \text{ ug/g}$$

TABLE 10
SUMMARY OF SOIL VAPOR MASS REMOVAL RATES
 Former Shell Service Station
 22045 Barton Road, Grand Terrace, CA

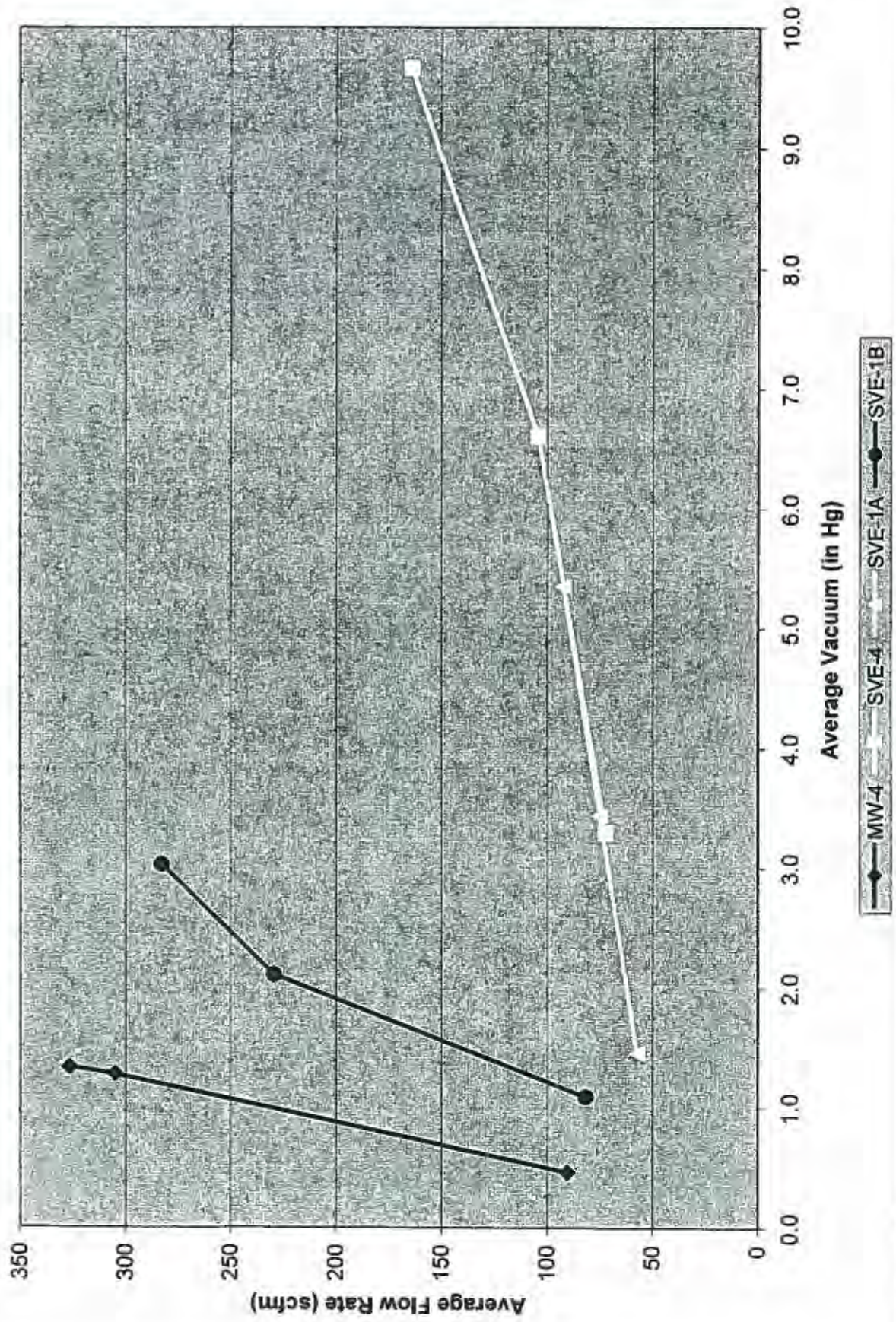
MTBE Mass Removal Calculation - Extended Test SVE-4						
Hours of Operation (hr)	Average Influent Conc. (ug/L)	Average Flow Rate (scfm)	Conversion Factor	Mass Removed (lb)	Mass Removal Rate (lb/hr)	Mass Removal Rate (lb/day)
8.0	210	168.3	3.75E-06	1.06	0.13	3.18
TPH-g Mass Removal Calculation - Extended Test SVE-4						
Hours of Operation (hr)	Average Influent Conc. (ug/L)	Average Flow Rate (scfm)	Conversion Factor	Mass Removed (lb)	Mass Removal Rate (lb/hr)	Mass Removal Rate (lb/day)
8.0	6,421	168.3	3.75E-06	32.39	4.05	97.16
Benzene Mass Removal Calculation - Extended Test SVE-4						
Hours of Operation (hr)	Average Influent Conc. (ug/L)	Average Flow Rate (scfm)	Conversion Factor	Mass Removed (lb)	Mass Removal Rate (lb/hr)	Mass Removal Rate (lb/day)
8.0	68	168.3	3.75E-06	0.34	0.04	1.03

Mass removal (lbs) = influent concentration (ug/l) x flowrate (scfm) x hours of operation (hr.) x 3.75E-06

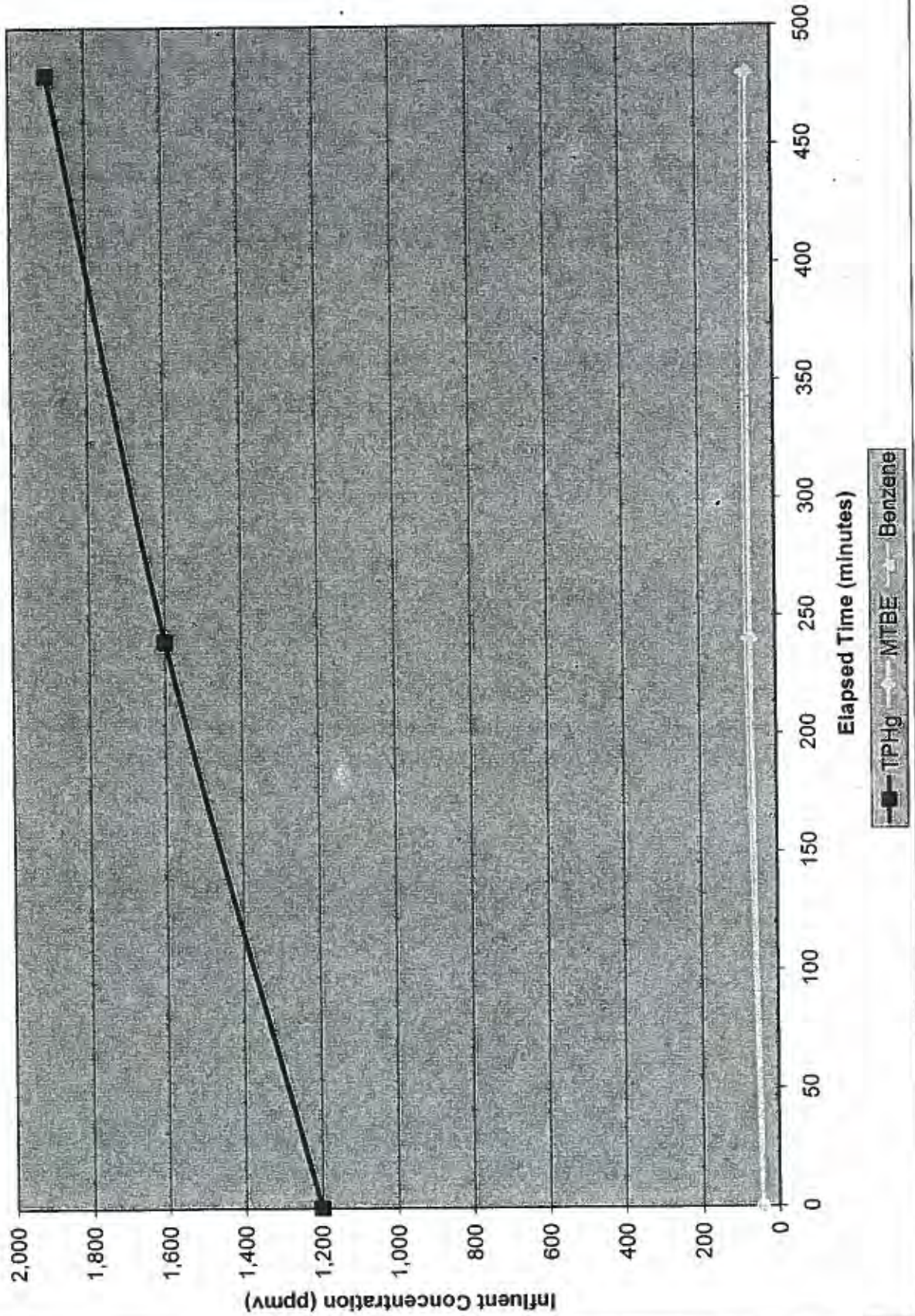
Abbreviations & Notes:
 MTBE = Methyl tert-butyl ether
 TPHg = Total petroleum hydrocarbons as gasoline
 ug/l = micrograms per liter
 scfm - standard cubic feet per minute
 lb/hr - pounds per hour
 lb/day - pounds per day
 ft³ - cubic feet

GRAPHS

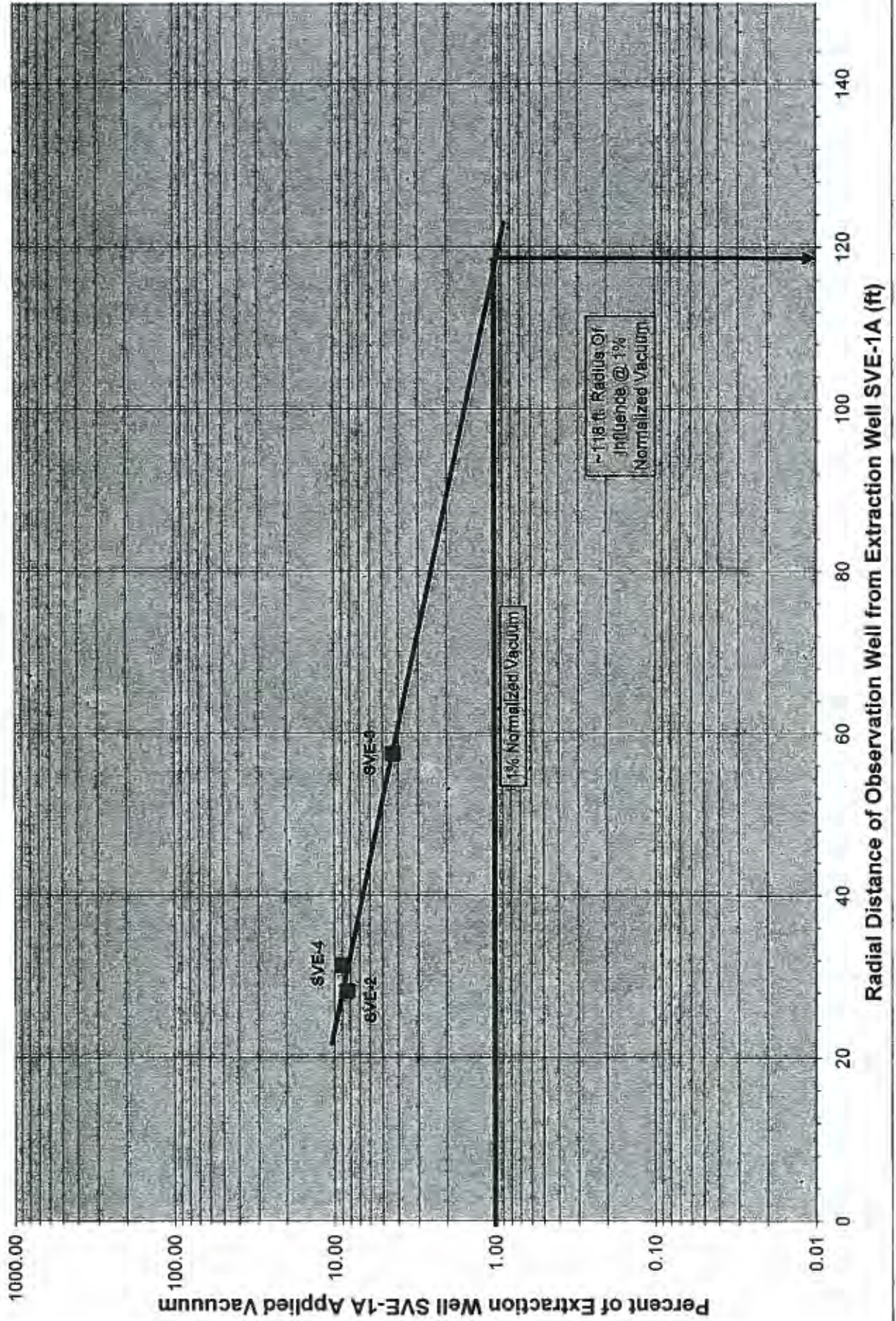
Graph 1
Average Flow Rate vs. Average Vacuum During Step Tests
 22045 Barton Road
 Grand Terrace, CA



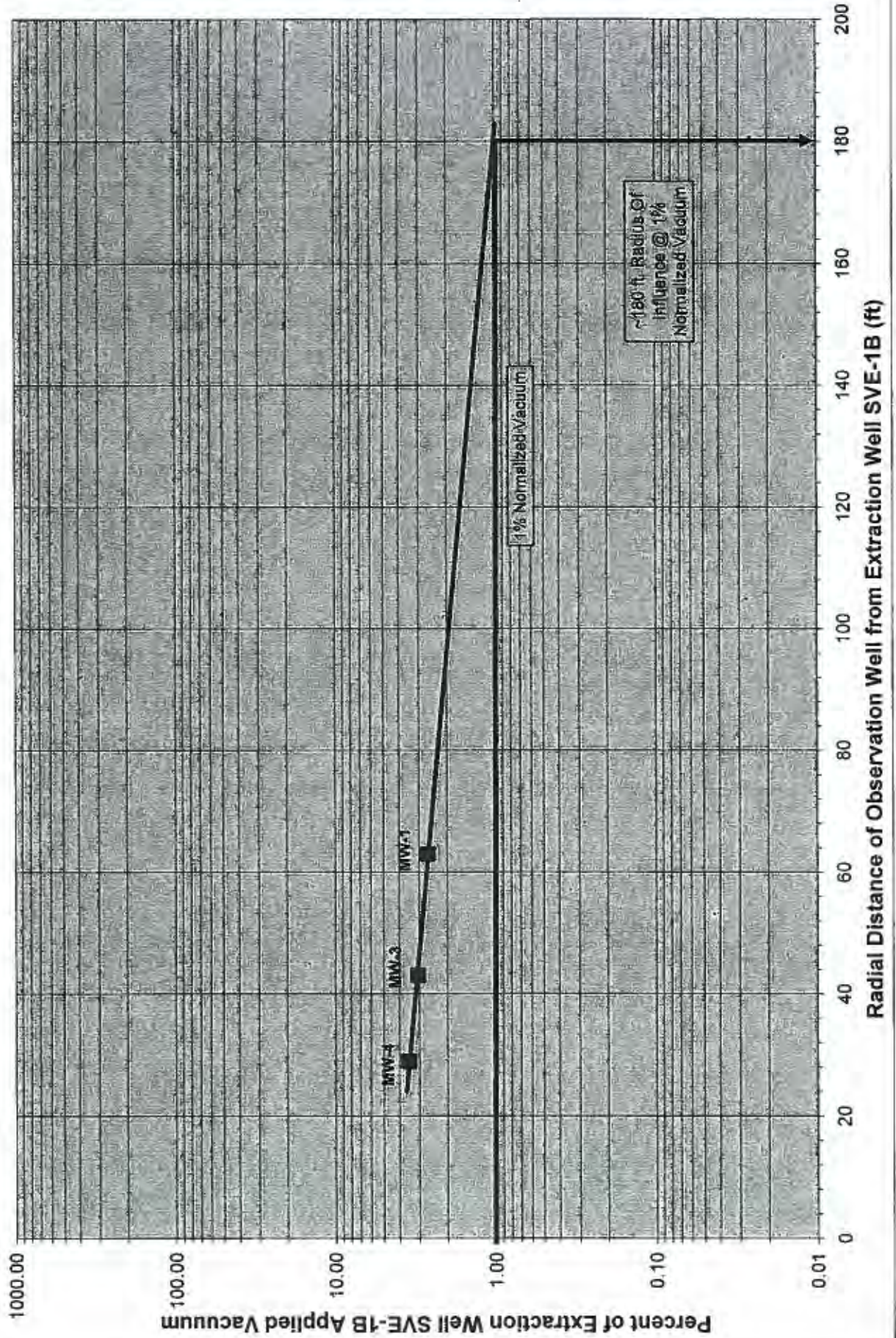
Graph 2
TPH-g, Benzene, and MTBE Influent Concentration vs. Operating Time (SVE-4)
22045 Barton Road
Grand Terrace, CA



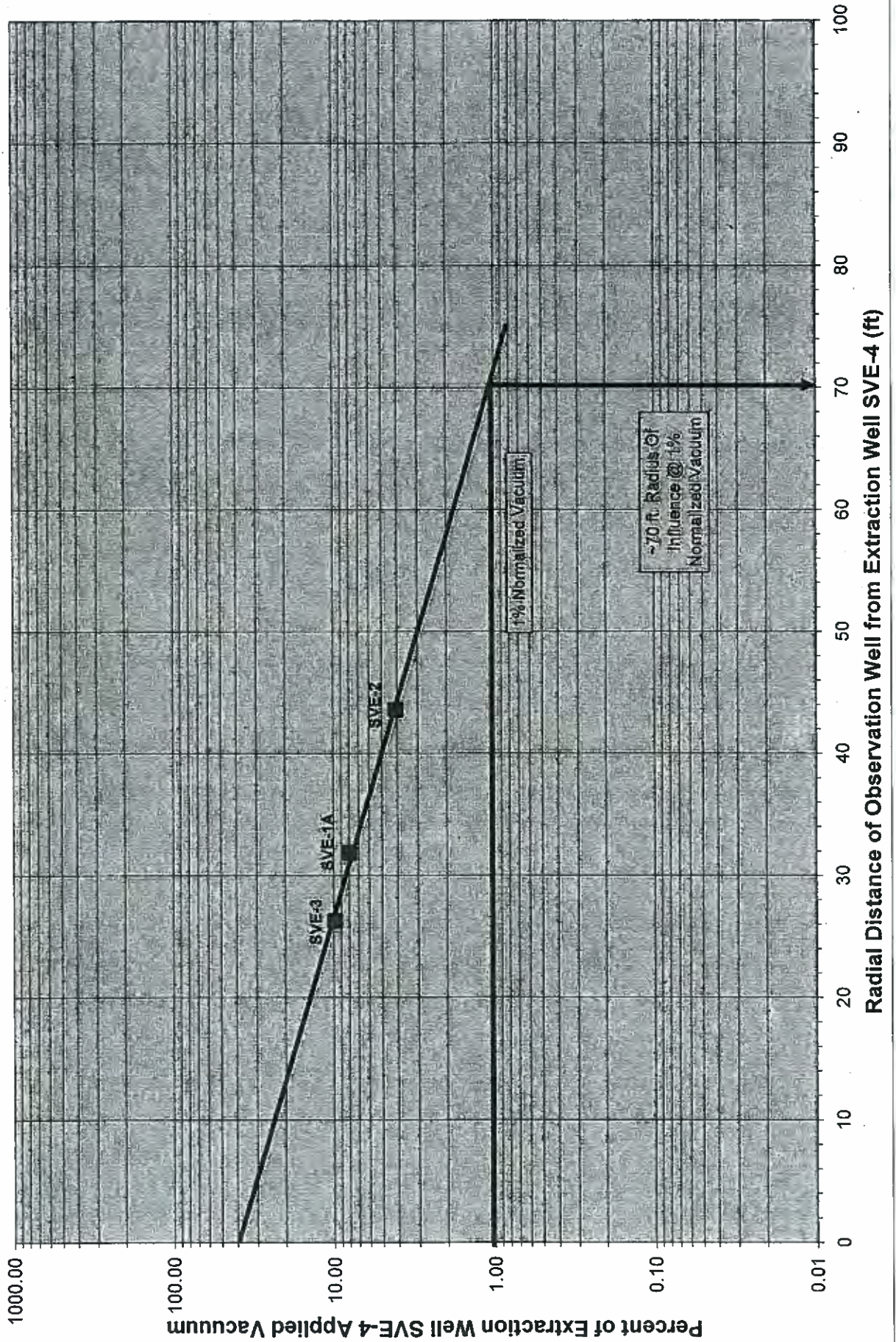
Graph 3
Radius of Influence Determination Plot (SVE-1A Step Test)
 22045 Barton Road
 Grand Terrace, CA



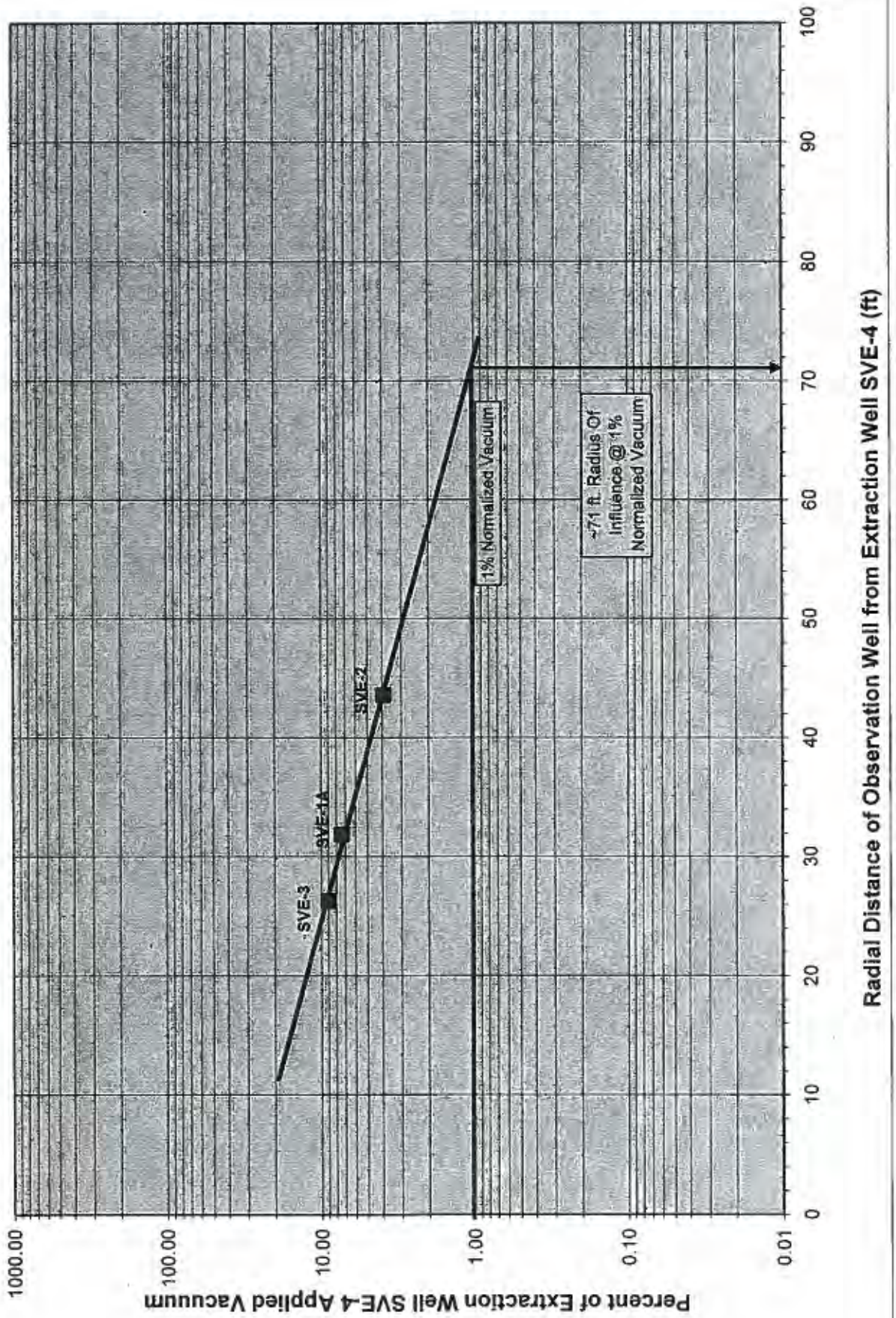
Graph 4
Radius of Influence Determination Plot (SVE-1B Step Test)
 22045 Barton Road
 Grand Terrace, CA



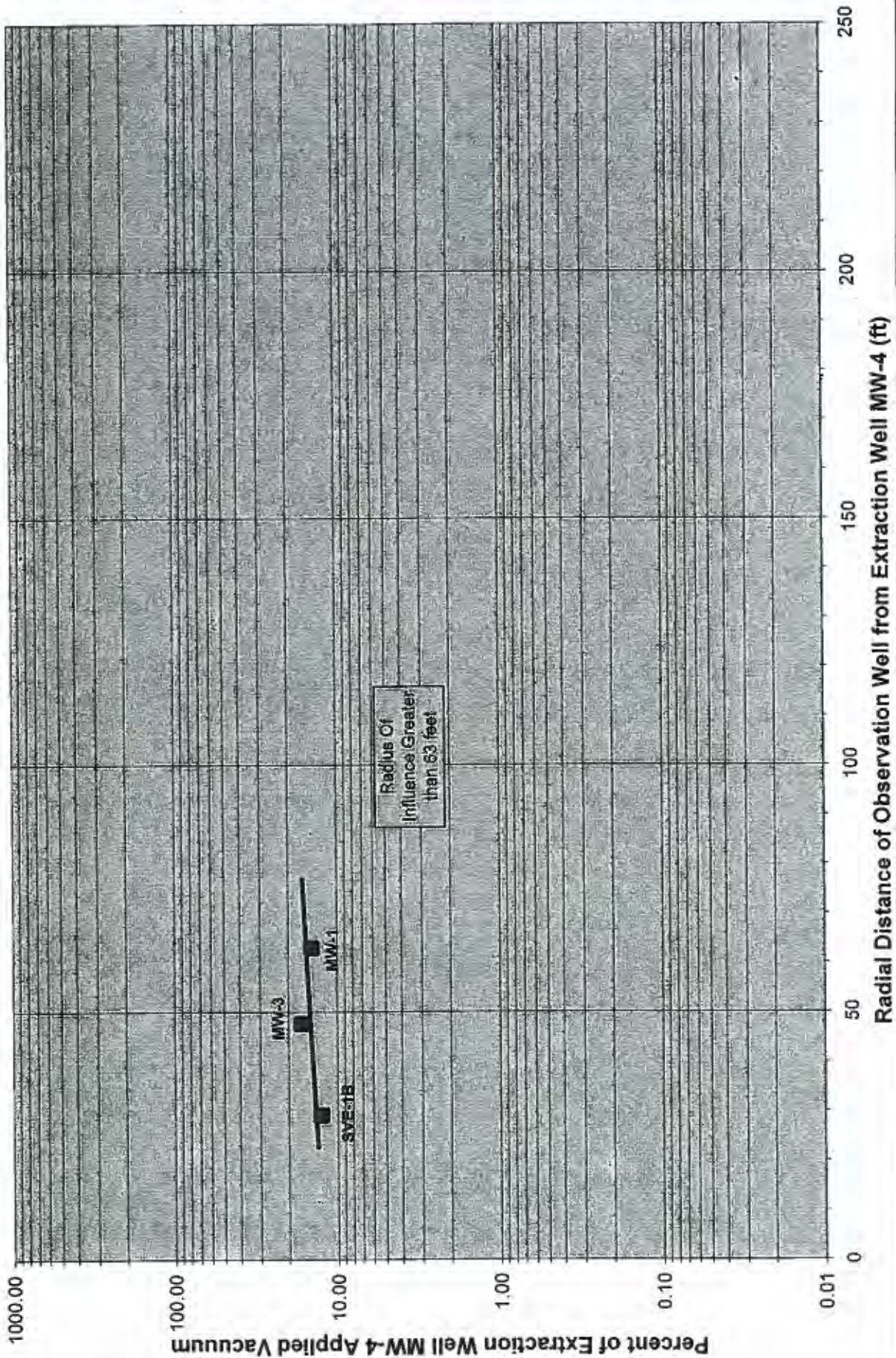
Graph 5
 Radius of Influence Determination Plot (SVE-4 Step Test)
 22045 Barton Road
 Grand Terrace, CA



Graph 6
 Radius of Influence Determination Plot (SVE-4 Extended Test)
 22045 Barton Road
 Grand Terrace, CA



Graph 7
Radius of Influence Determination Plot (MW-4 Step Test)
22045 Barton Road
Grand Terrace, CA



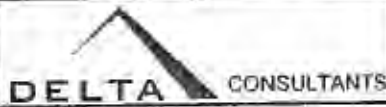
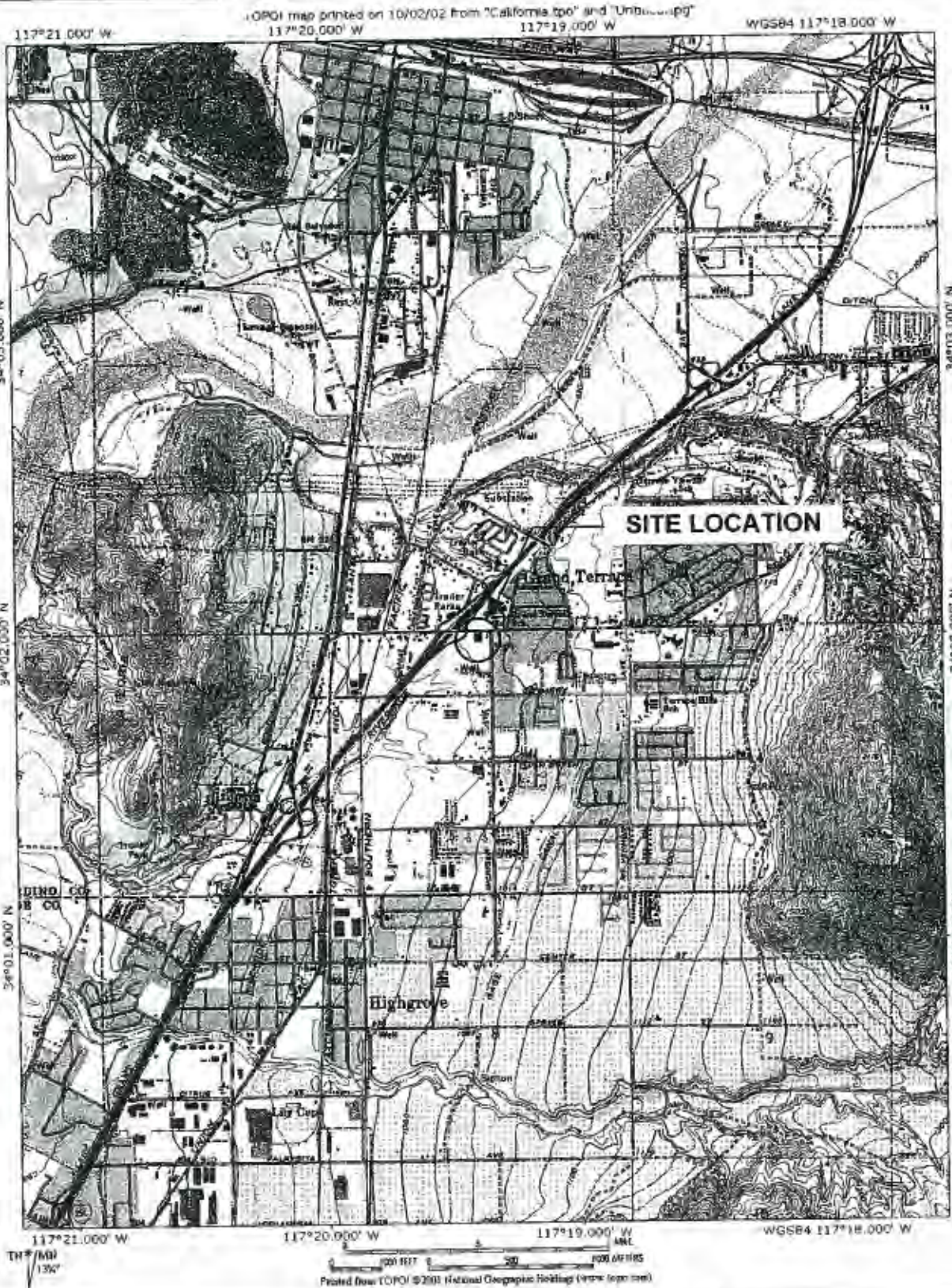
FIGURES

DRAWING NUMBER
PA22045-1

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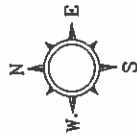
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SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 1
SITE LOCATION MAP

22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA



LEGEND

- MW-1 ◊ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ✂ ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- B-1 ● EXPLORATORY SOIL BORING LOCATION (DELTA, 2005)
- SVE-1 ✂ SOIL VAPOR EXTRACTION WELL

BARTON ROAD

FORMER DISPENSER ISLAND (TYP)

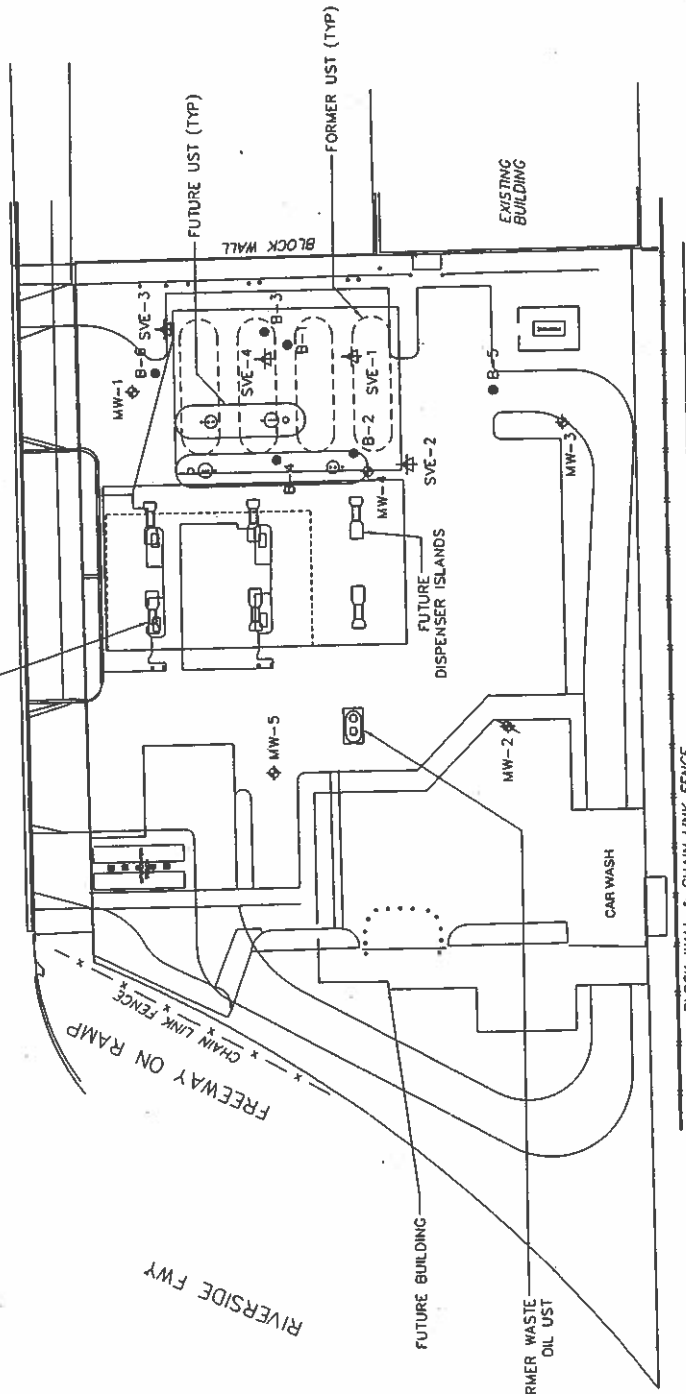
FREWAY ON RAMP

RIVERSIDE FWY

FUTURE BUILDING

FORMER WASTE OIL UST

SCALE IN FEET
0 15 30



EXISTING BUILDING

BLOCK WALL & CHAIN LINK FENCE

EXISTING BUILDING

FORMER UST (TYP)

FUTURE UST (TYP)

BLOCK WALL

FUTURE DISPENSER ISLANDS

CAR WASH



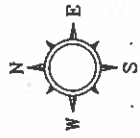
SHELL OIL PRODUCTS-US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 2

SITE MAP

22045 BARTON ROAD
COLTON, CALIFORNIA

PROJECT NUMBER PA22045-1	APPROVED BY	CHECKED BY	DRAWN BY	DATE
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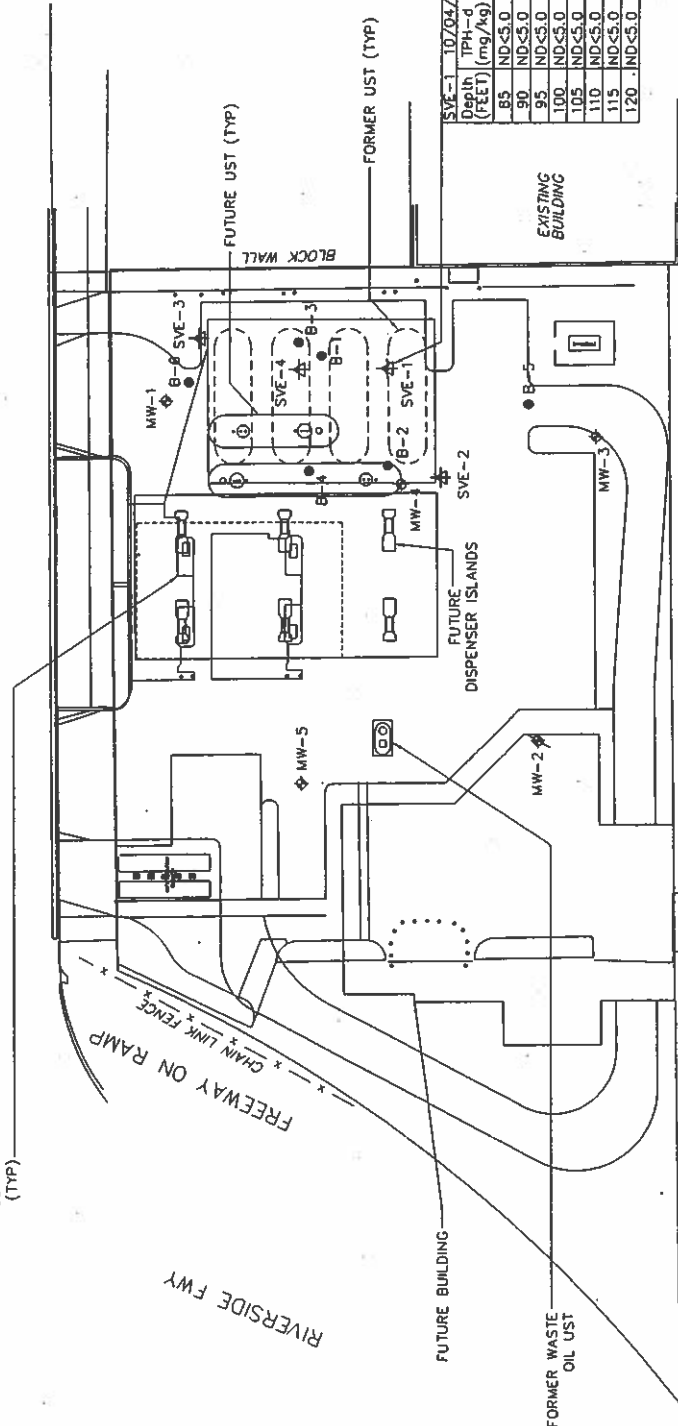
LEGEND

- MW-1 ◊ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ⚡ ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- B-1 ● EXPLORATORY SOIL BORING LOCATION (DELTA, 2005)
- SVE-1 ⚡ SOIL VAPOR EXTRACTION WELL LOCATION
- TPH-9 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- MTBE METHYL TERT-BUTYL ETHER
- TBA TERT-BUTYL ALCOHOL
- mg/kg MILLIGRAMS PER KILOGRAM
- ND< NOT DETECTED ABOVE LIMIT NOTED

BARTON ROAD

FORMER DISPENSER ISLAND (TYP)

FREWAY ON RAMP
 CHAIN LINK FENCE
 RIVERSIDE FWY



Depth (FEET)	TPH-4 (mg/kg)	TPH-9 (mg/kg)	Benzene (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)
85	ND<5.0	ND<0.20	ND<0.00099	0.19	0.21
90	ND<5.0	ND<0.20	ND<0.0010	0.019	ND<0.020
95	ND<5.0	ND<0.18	ND<0.0010	0.0031	ND<0.020
100	ND<5.0	ND<0.19	ND<0.0010	0.0059	ND<0.020
105	ND<5.0	ND<0.20	ND<0.00099	ND<0.0020	ND<0.020
110	ND<5.0	ND<0.20	ND<0.00099	ND<0.0020	ND<0.020
115	ND<5.0	ND<0.20	ND<0.0010	ND<0.0020	ND<0.020
120	ND<5.0	ND<0.20	ND<0.00099	ND<0.0020	ND<0.020

DELTA CONSULTANTS
 SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 3

HYDROCARBON DISTRIBUTION IN SOIL MAP

22045 BARTON ROAD
 COLTON, CALIFORNIA



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September 29, 2006
DELTA Project PA22045-1
SAP # 120906

CP	REGION 8
KRW	
AD	10/26/06

OCT 04 2006

Ms. Lisa Holst
San Bernardino County Fire Department
Hazardous Materials Division
620 South E. Street
San Bernardino, California 92415-0153

Re: THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT
Former Shell Service Station
22045 Barton Road
Grand Terrace, California
Site # 2004027

Dear Ms. Holst:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), Delta Environmental Consultants, Inc. (DELTA) has prepared this *Third Quarter 2006 Groundwater Monitoring Report* for the above referenced site.

This quarterly report represents DELTA's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

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August 7, 2006
DELTA Project No. PA22045-1
SAP# 120906

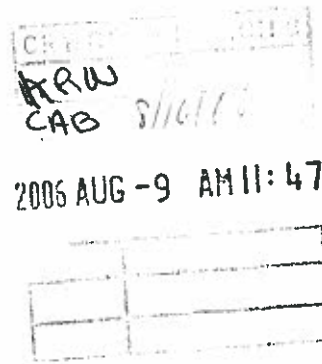
Ms. Lisa Holst
San Bernardino County Fire Department
Hazardous Materials Division
620 South E. Street
San Bernardino, California 92415-0153

**Re: Addendum to the Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing
dated January 16, 2006
Former Shell/Texaco Service Station
22045 Barton Road
Grand Terrace, California
Site # 2004027**

Dear Ms. Holst:

Delta Environmental Consultants, Inc. (DELTA) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), has prepared this *Addendum to the Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing dated January 16, 2006* for the above-referenced site (Figure 1), which was requested by the San Bernardino County Fire Department (SBCFD) in a conversation on July 5, 2006 due to the proposed underground storage tanks (USTs) location. An *Addendum to the Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing dated January 16, 2006* was previously submitted on May 15, 2006. The scope of the proposed work is to install four soil vapor extraction (SVE) wells, perform a SVE step test, and perform an extended SVE pilot test to evaluate the feasibility of SVE as an option to remediate methyl tert-butyl ether (MTBE) impacts to soil beneath the site.

This work plan addendum has been prepared to comply with the California Code of Regulations, Title 23, Division 3, Chapter 16, Article 11. Provided below is site background information followed by a detailed scope of work for the proposed assessment. All work will be performed under the supervision of a California-registered geologist and/or professional civil engineer.



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BACKGROUND

SITE DESCRIPTION

The subject site is a former Shell Service Station located on South Barton Road, adjacent to the Interstate 215 Freeway off-ramp, in the City of Grand Terrace, California (Figure 1). The site operated as a service station from 1965 until UST closure activities were performed in August and September 2004. The former service station consisted of four dispensers, three 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, associated product piping, and a station building (Figure 2). The station building remains on the site and has two non-operational service bays and a car wash. The site is currently unoccupied and fenced. It is DELTA's understanding that the potential new property owner will be re-opening the site as a gasoline service station and may be installing new USTs in the area of the former USTs.

SUBSURFACE CONDITIONS

The site is generally underlain by well-graded and poorly-graded sands with silty sands, sandy silt, clayey silt, and silt to approximately 100 feet below ground surface (bgs). From approximately 100 feet bgs to the total depth explored of approximately 170 feet bgs, the site is underlain by primarily well-graded and poorly graded sands and gravels.

Static depth to groundwater levels, as measured during second quarter 2006 groundwater monitoring activities on April 20, 2006 ranged from 135.70' to 138.22' feet bgs. The groundwater gradient beneath the site was towards the south at approximately 0.011 feet per foot (ft/ft).

ADDENDUM TO PROPOSED SVE WELL INSTALLATION ACTIVITIES

The scope of work is to include drilling and installing one dual-nested SVE well (SVE-1) and three single completion SVE wells (SVE-2 through SVE-4) for future feasibility testing. DELTA has revised the locations of wells SVE-1 and SVE-2 due to the proposed USTs location. SVE-1 is proposed to be moved northeast from its former location and SVE-2 is proposed to be moved south from its former location. Per review of the ROI results for a nearby LUFT site, as described in the work plan dated January 16, 2006, the anticipated ROI for this site is estimated to be greater than 75 feet, indicating that the placement of the proposed wells is sufficient. The revised proposed SVE well locations are shown on Figure 2. The drilling and installation procedures will be conducted as proposed in the *Addendum to the Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing dated January 16, 2006* dated May 15, 2006.

PROPOSED SVE PILOT TESTING ACTIVITIES

The SVE pilot testing activities will be conducted as proposed in the *Addendum to the Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing dated January 16, 2006* dated May 15, 2006

SCHEDULE

DELTA is prepared to initiate this work upon receipt of the SBCFD's approval. The activities performed by DELTA under this scope of work will be supervised by either a state of California professional geologist and/or

professional engineer, and will be conducted consistent with applicable agency standards. The scope of work will be conducted with the same standards described in DELTA's *Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing* dated January 16, 2006.

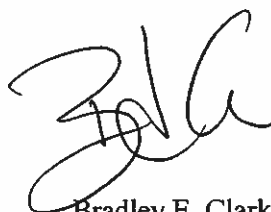
The recommendations contained in this addendum represent DELTA's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

If you have any questions regarding this site assessment report, please call Ms. Katherine Swords (DELTA) or Ms. Monica Cash-Ortega (DELTA Project Manager) at (626) 256-6662. The SHELL Project Manager is Mr. Randy Orłowski. Mr. Orłowski can be reached at (949) 360-1111.

Sincerely,
Delta Environmental Consultants, Inc.



Katherine Swords, P.E. C70071
Senior Project Engineer



Bradley E. Clark, P.E. C55425
Senior Project Engineer



- cc: Mr. Randy Orłowski, Shell Oil Products US
Mr. Fahim Tanios c/o Bleau, Fox & Fong
Mr. Larry Jacobs, Shell Oil Products US
Mr. Carl Bernhardt, SARWQCB

ATTACHMENTS:

Figure 1 – Site Location Map

Figure 2 – Site Map with Proposed SVE Well Locations

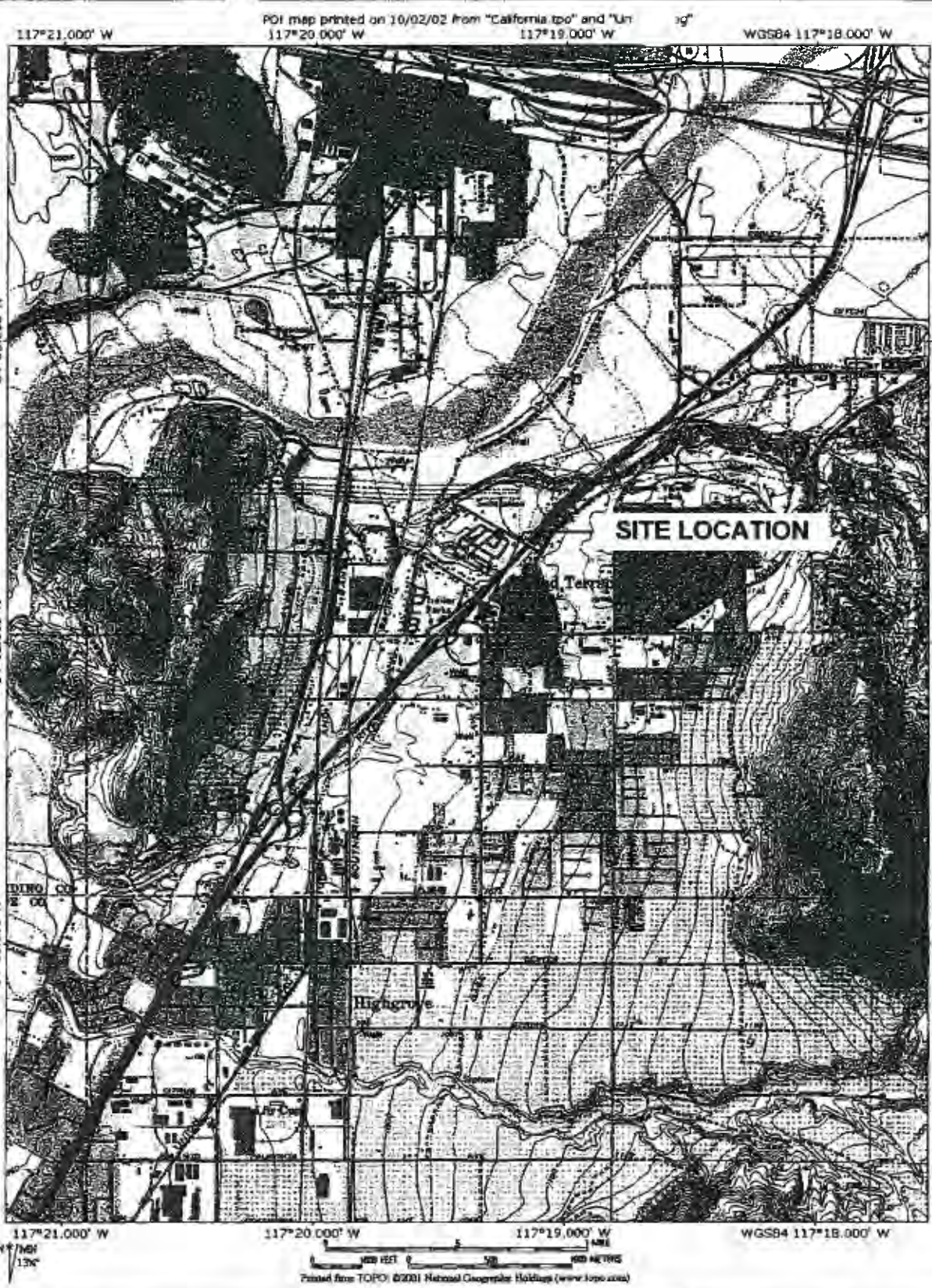
FIGURE

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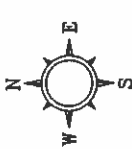
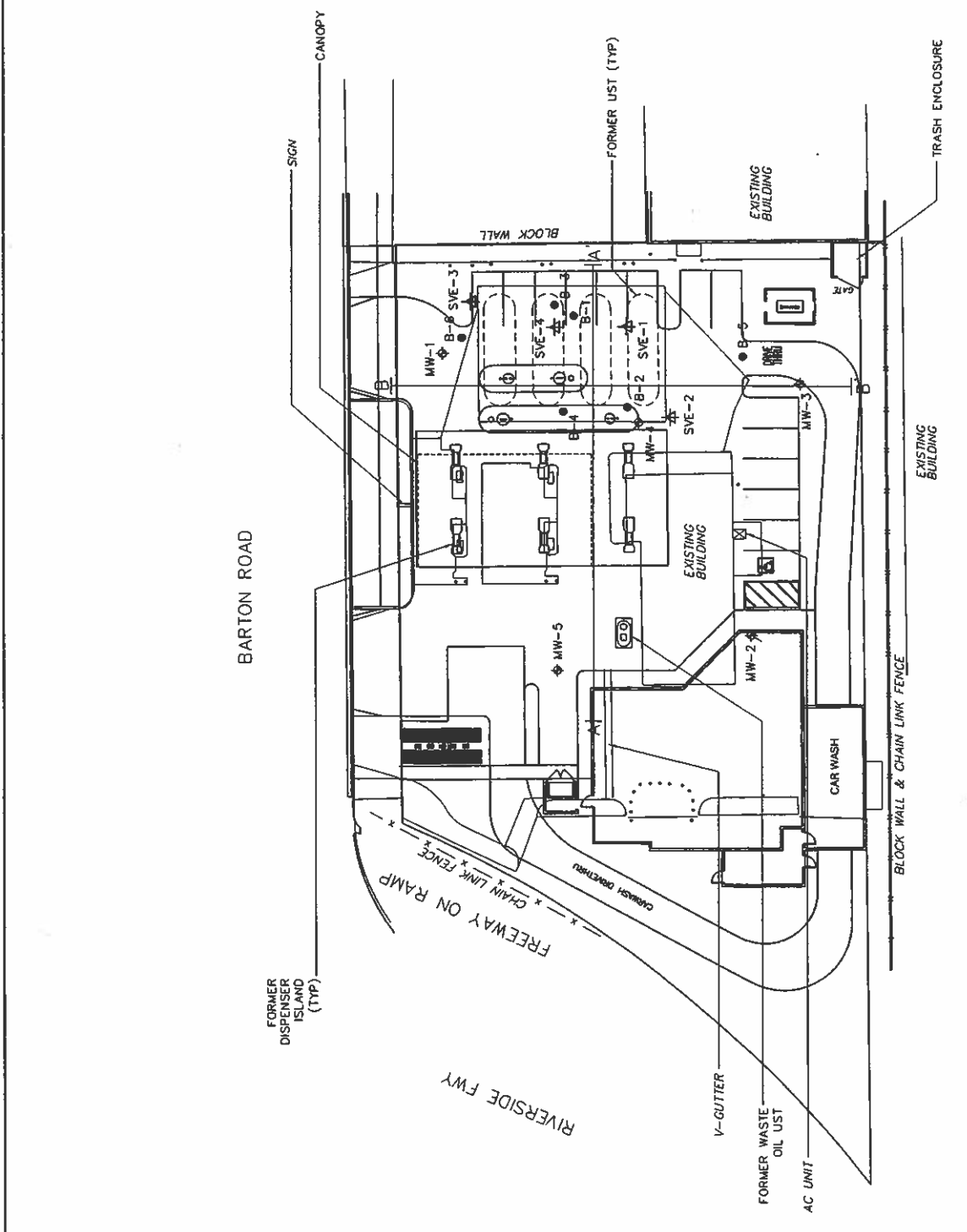


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COLTON, CALIFORNIA

FIGURE 1
SITE LOCATION MAP

22045 BARTON ROAD
COLTON, CALIFORNIA

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APPROVED BY	



LEGEND

- MW-1 ◊ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ◊ ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- B-1 ● EXPLORATORY SOIL BORING LOCATION (DELTA, 2005)
- SVE-1 ◊ PROPOSED SOIL VAPOR EXTRACTION WELL LOCATION
- A-|—|A' CROSS SECTION LINE



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COLTON, CALIFORNIA

FIGURE 2
SITE MAP WITH
PROPOSED SVE WELL LOCATIONS
22045 BARTON ROAD
COLTON, CALIFORNIA

June 30, 2006

SHELL QUARTERLY STATUS REPORT

Station Address.:	22045 Barton Road, Grand Terrace
DELTA Project No.	PA22045-1
SHELL Project Manager/Phone No.:	Randy Orlowski / (949) 360-1111
DELTA Site Manager/Phone No.:	Kathryn Ewing / (626) 256-6662
Primary Agency/Regulatory ID No.:	San Bernardino County Fire Department (Lisa Holst)
Other Agencies to Receive Copies:	Santa Ana Regional Water Quality Control Board

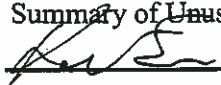
WORK PERFORMED THIS QUARTER (SECOND - 2006):

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.
2. Submitted an *Extension Request - Work Plan Addendum* dated April 25, 2006 to the SBCFD.
3. Submitted an *Addendum to Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing*, dated May 15, 2006 to the SBCFD.
4. Communication with SBCFD regarding property owner's pending developments.

WORK PROPOSED FOR NEXT QUARTER (THIRD - 2006):

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.
2. Coordinate with property owner to maintain wells during property re-development.
3. Follow up with agency regarding response to *Addendum to Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing*, dated May 15, 2006.

Current Phase of Project:	Groundwater Monitoring / Corrective Action Planning
Frequency of Sampling:	Quarterly
Frequency of Monitoring:	Quarterly
Is Separate Phase Hydrocarbon Present On-site (Well #'s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Bulk Soil Removed to Date:	1,177 tons
Sensitive Receptor(s) Information:	Nearest active water supply well is located approximately 951 feet south of the site (City of Riverside Water Division Public Utilities Department State Well No. 02S/04W-05C01S).
Approximate Depth to Groundwater:	135.70' to 138.22'
Groundwater Gradient	0.011 ft/ft towards the south
Current Agency Correspondence	SBCFD letter dated March 24, 2006 (Appendix A).
Summary of Unusual Activity:	None


Kathryn Ewing
Site Manager (DELTA)

ATTACHED:

- Table 1 – Historical Groundwater Gauging and Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Hydrocarbon Distribution in Groundwater Map
- Figure 4 – TPH-d Concentration Map
- Figure 5 – TPH-g Concentration Map
- Figure 6 – Benzene Concentration Map
- Figure 7 – MTBE Concentration Map
- Appendix A – SBCFD Correspondence Letter dated March 24, 2006
- Appendix B – Field Data Sheets
- Appendix C – Field Procedures
- Appendix D – Waste Disposal Document
- Appendix E – Laboratory Report and Chain-of-Custody Documents

TABLE

TABLE 1
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL RESULTS

SHELL SERVICE STATION
22045 Barton Road, Grand Terrace, California

DATE	DEPTH TO-GW (feet)	SPH THICKN. (feet)	CW-ELEV. (feet relative to MSL)	TPH-D (ug/L)	TPH-G (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL-BENZENE (ug/L)	TOTAL XYLENES (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	ETHANOL (ug/L)	COMMENTS
MW-1																
Top of casing elevation (ft): 990.55																
9/20/2005	135.83	0.00	854.72													
9/22/2005	135.55	0.00	855.00													
9/30/2005	135.70	0.00	854.85	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.74	0.00	852.81	ND<470	62	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	137.63	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.50	0.00	854.05	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-3																
Top of casing elevation (ft): 991.14																
9/20/2005	137.85	0.00	853.29													
9/30/2005	137.76	0.00	853.38	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	14	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	139.44	0.00	851.70	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.1	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	139.27	0.00	851.87	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	138.22	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-4																
Top of casing elevation (ft): 990.07																
9/20/2005	135.77	0.00	854.30													
9/30/2005	135.74	0.00	854.33	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.67	0.00	852.40	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	137.48	0.00	852.59	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.43	0.00	853.64	ND<470	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-5																
Top of casing elevation (ft): 989.48																
9/20/2005	135.24	0.00	854.24													
9/22/2005	135.01	0.00	854.47													
9/30/2005	135.19	0.00	854.29	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.00	0.00	852.48	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	136.92	0.00	852.56	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	135.70	0.00	853.78	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
Notes:																
CW = groundwater																
SPH = separate-phase hydrocarbons																
MSL = mean sea level																
ND = not detected																
ug/L = parts per billion																
TPH-G = total petroleum hydrocarbons as gasoline analyzed using the California DHS LUFT Method																
TPH-D = total petroleum hydrocarbons as diesel analyzed using the California DHS LUFT Method																
Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B																
MTBE = methyl tertiary butyl ether analyzed using EPA Method 8260B																
TBA = tertiary butyl alcohol analyzed using EPA Method 8260B																
DIPE = diisopropyl ether analyzed using EPA Method 8260B																
ETBE = ethyl tertiary butyl ether analyzed using EPA Method 8260B																
TAME = tertiary amyl methyl ether analyzed using EPA Method 8260B																

FIGURES

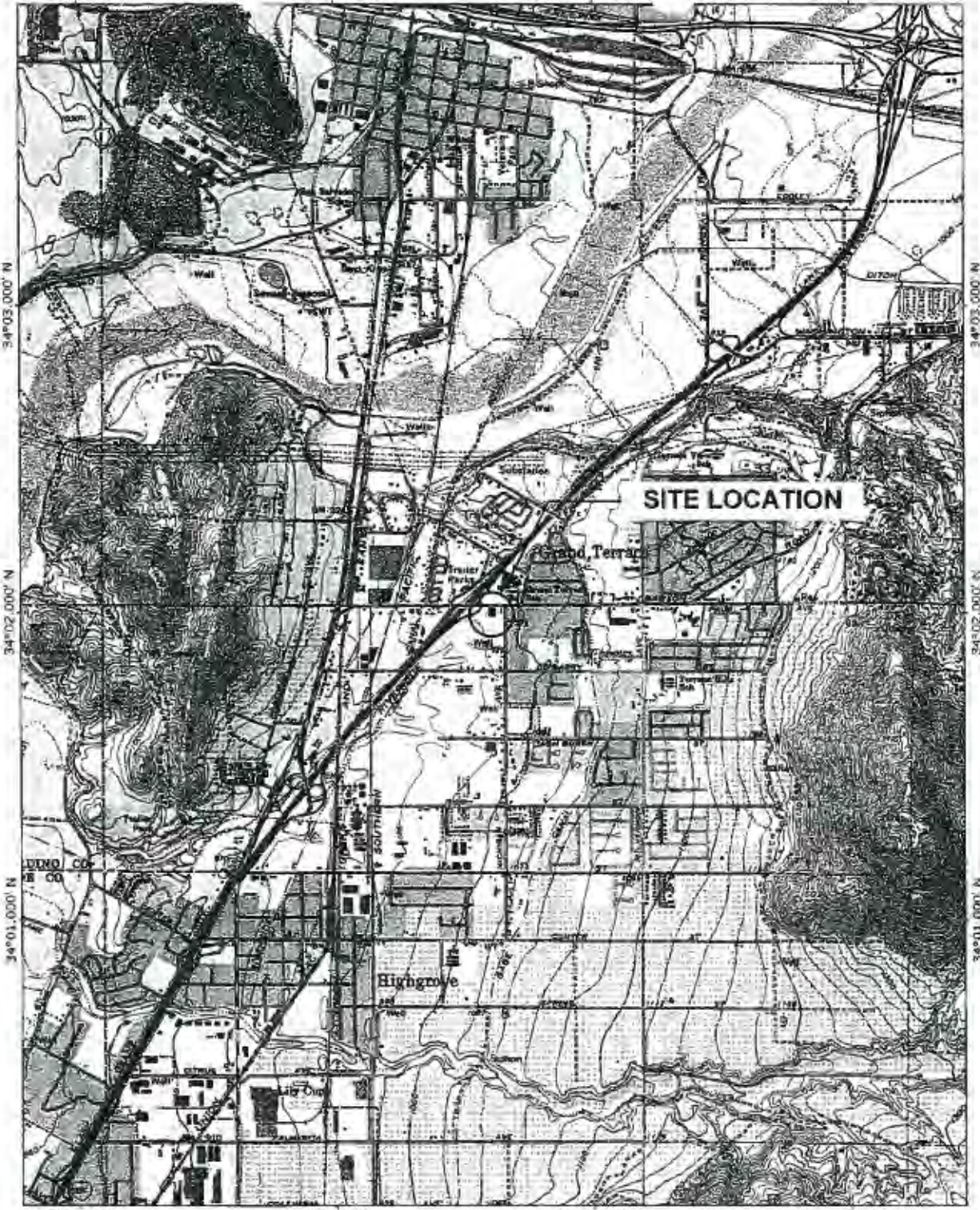
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117°21.000' W 117°20.000' W 117°19.000' W WGS84 117°18.000' W

1:25000
1" = 130'

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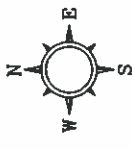


DELTA
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SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 1
SITE LOCATION MAP

22045 BARTON ROAD
COLTON, CALIFORNIA



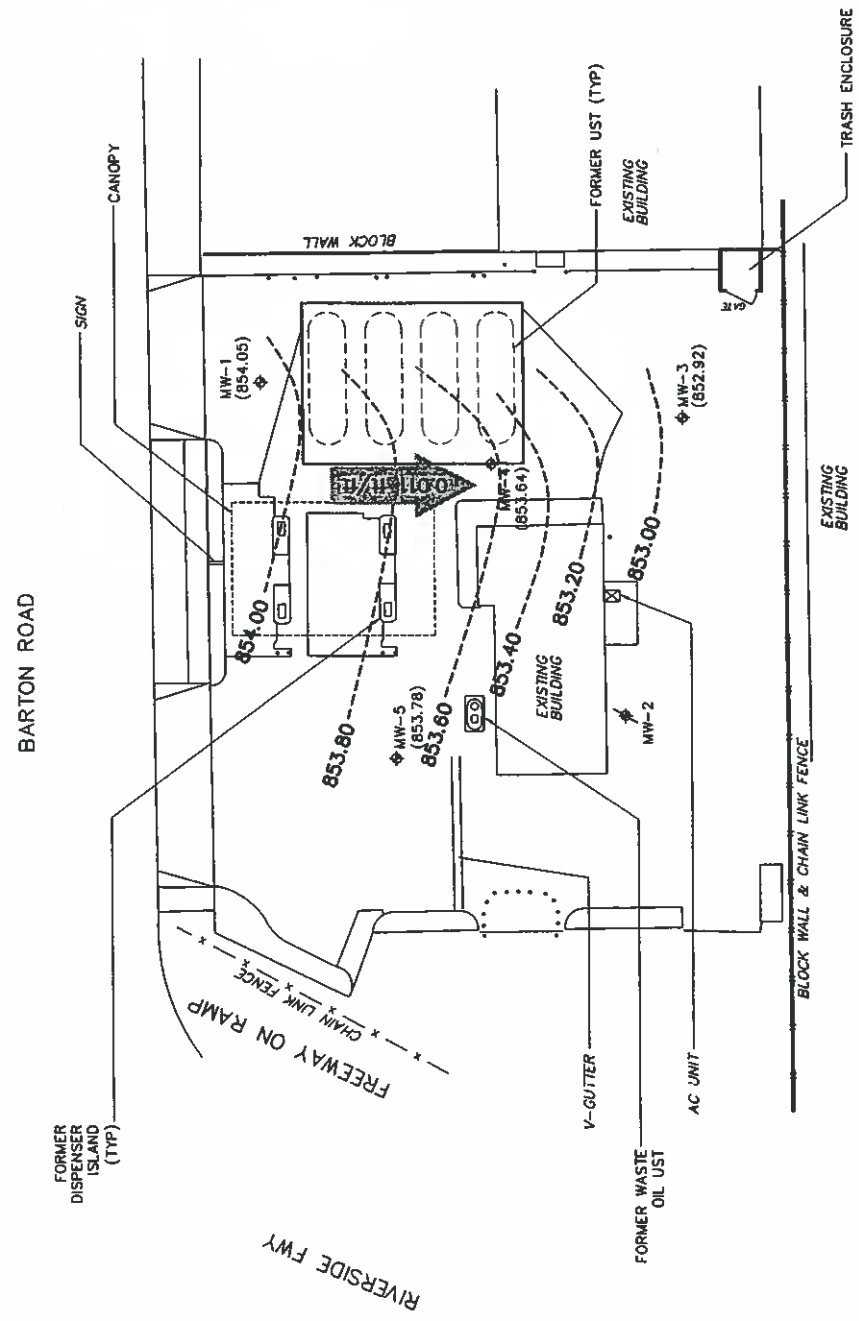
LEGEND

- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2006)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- (854.05) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FV/MSL)
- 853.00 - - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (FV/MSL)
- CONTOUR INTERVAL=0.20 FEET
- APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)

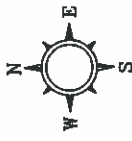


SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 2
04/20/06
22045 BARTON ROAD
COLTON, CALIFORNIA



PROJECT NUMBER PA22045-1	APPROVED BY	CHECKED BY	DRAWN BY	DATE
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LEGEND

- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- ND<470 TPH-d CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (ug/L)
- TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- ND< NOT DETECTED ABOVE LIMIT NOTED

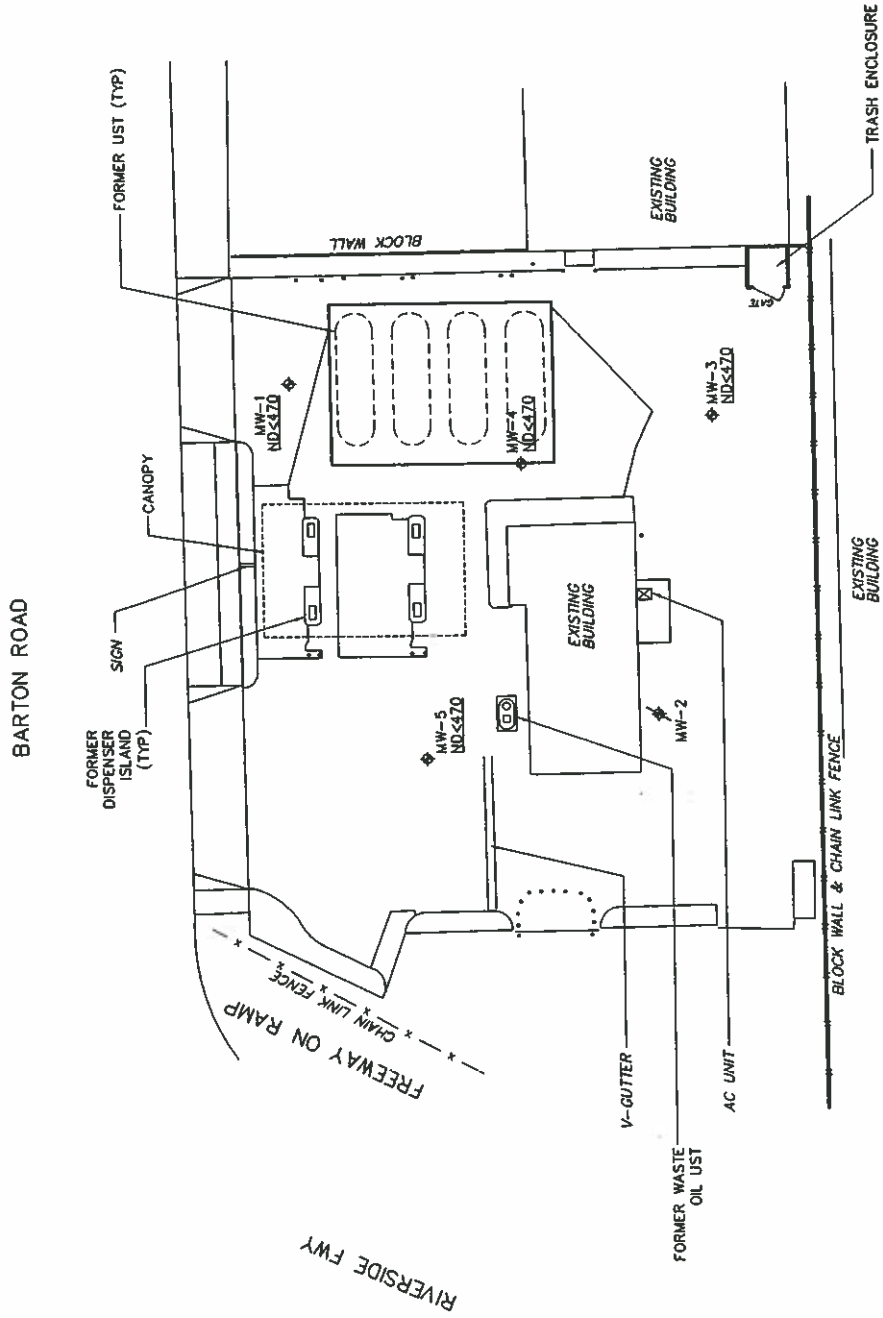


SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

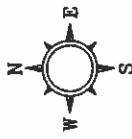
FIGURE 4

TPH-d CONCENTRATION MAP

04/20/06
22045 BARTON ROAD
COLTON, CALIFORNIA

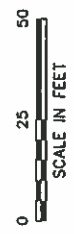


PROJECT NUMBER	PA22045-1
DRAWN BY	lm
CHECKED BY	
APPROVED BY	



LEGEND

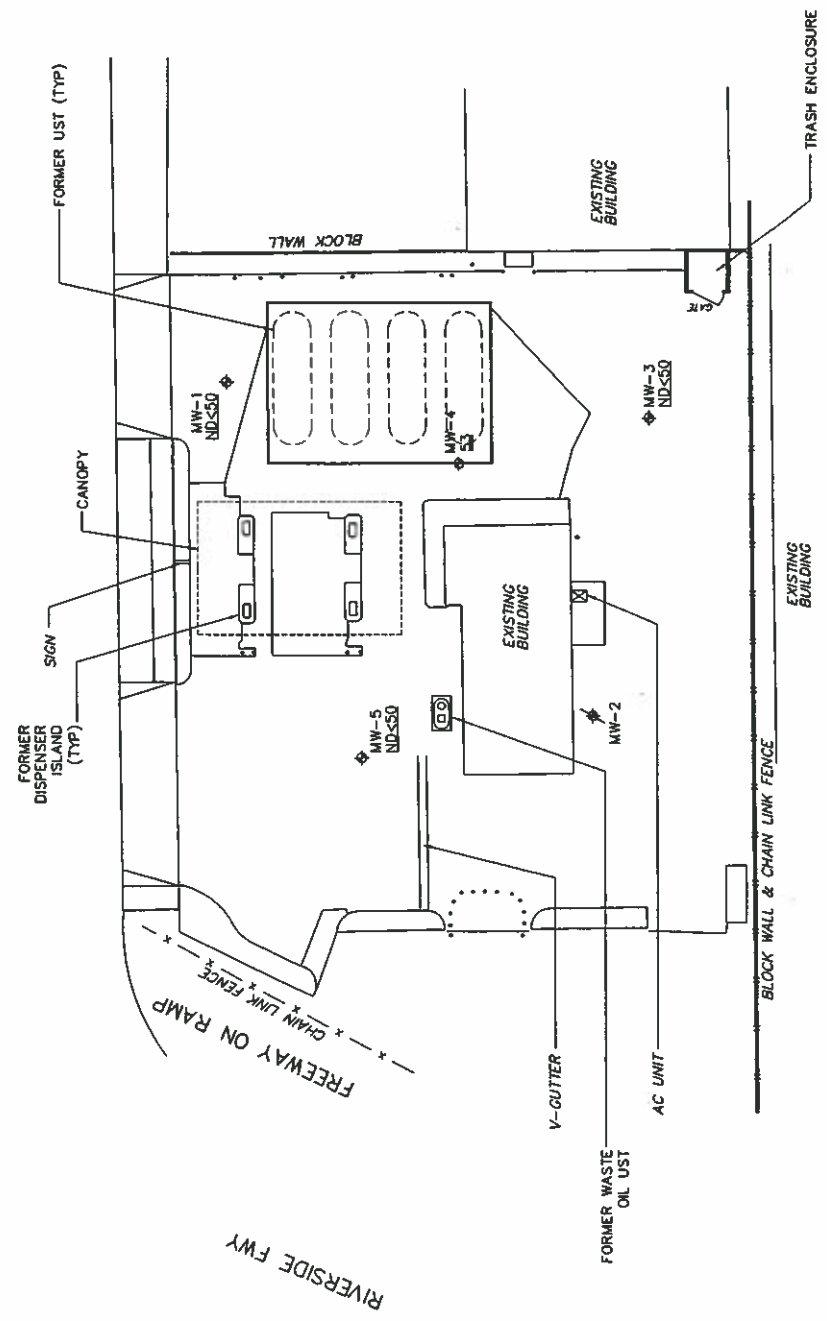
- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- ND<50 TPH-9 CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (ug/L)
- TPH-9 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- ND< NOT DETECTED ABOVE LIMIT NOTED



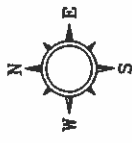
SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 5
TPH-9 CONCENTRATION MAP
04/20/06
22045 BARTON ROAD
COLTON, CALIFORNIA

BARTON ROAD

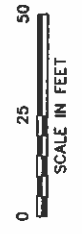


PROJECT NUMBER	PA22045-1
DRAWN BY	LM
CHECKED BY	
APPROVED BY	



LEGEND

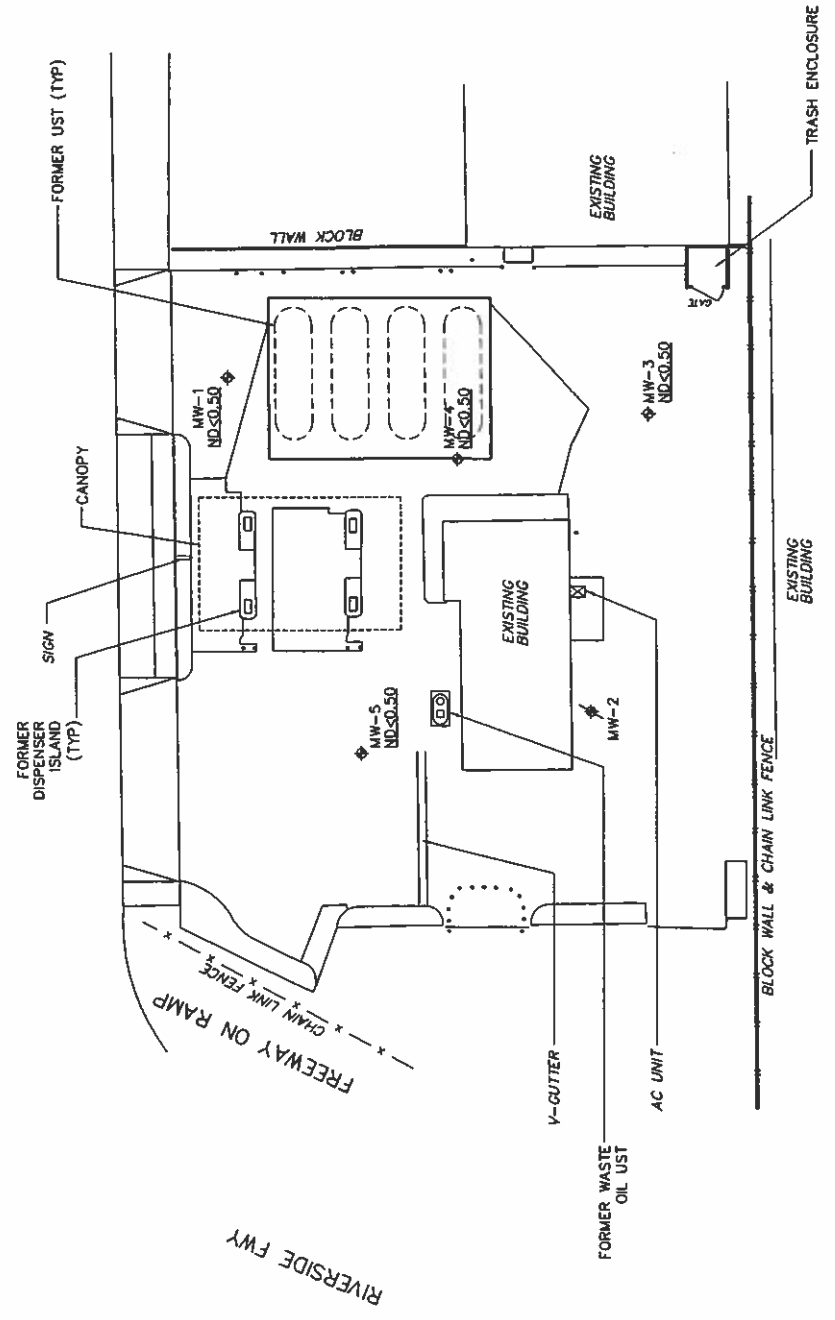
- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- ND<0.50 BENZENE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- ND< NOT DETECTED ABOVE LIMIT NOTED



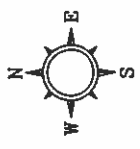
Delta ENVIRONMENTAL CONSULTANTS INC.
 SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 6
 BENZENE CONCENTRATION MAP
 04/20/06
 22045 BARTON ROAD
 COLTON, CALIFORNIA

BARTON ROAD



PROJECT NUMBER	PA22045-1
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CHECKED BY	
APPROVED BY	



LEGEND

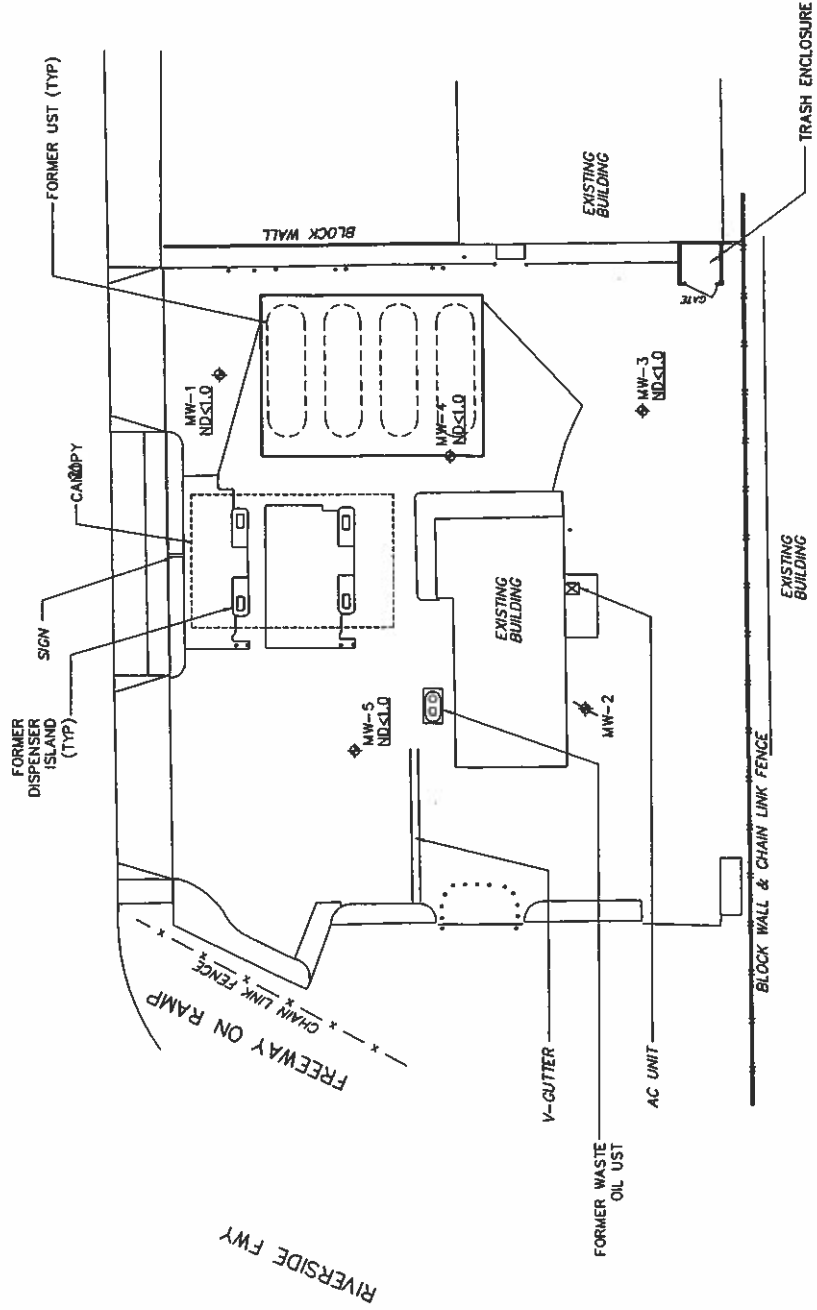
- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- ND<SLO
- MTBE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- ND<
- NOT DETECTED ABOVE LIMIT NOTED
- MTBE
- METHYL TERT-BUTYL ETHER



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COLTON, CALIFORNIA

FIGURE 7
MTBE CONCENTRATION MAP
04/20/06
22045 BARTON ROAD
COLTON, CALIFORNIA

BARTON ROAD



DRAWN BY	LM
CHECKED BY	
APPROVED BY	
PROJECT NUMBER	PA22045-1

APPENDIX A

SBCFD CORRESPONDENCE LETTER DATED AUGUST 14, 2006

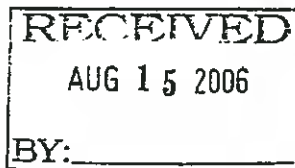
COUNTY FIRE DEPARTMENT



COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

PAT A. DENNEN
Fire Chief
County Fire Warden



August 14, 2006

SHELL OIL PRODUCTS U.S.
ENVIRONMENTAL SERVICES
20945 S. WILMINGTON AVENUE
CARSON, CA 90810-1039

SITE #2004027

ATTENTION: RANDY ORLOWSKI

SUBJECT: ADDENDUMS TO THE WORK PLAN FOR SOIL VAPOR
EXTRACTION WELL INSTALLATION AND PILOT TESTING
(DATED JANUARY 16, 2006)
FORMER SHELL/TEXACO SERVICE STATION,
22045 BARTON RD., GRAND TERRACE, CALIFORNIA

The Department has reviewed the above referenced documents submitted by your consultant, Delta Environmental Consultants Inc., dated May 18, 2006, and August 7, 2006. The addendums modify the original proposed scope of work due to a pending UST installation, and to address Department comments and concerns as expressed in a letter dated March 24, 2006. The workplan and addendums are approved provided the following conditions are met:

1. Please notify the Department 5 working days in advance of soil vapor extraction (SVE) well installation and SVE pilot testing activity so a Department representative may be scheduled to be present.
2. Please submit one hard copy of the report of SVE well installation and pilot testing by **November 20, 2006**. The report should include a California registered professional's "wet" signature and stamp.
3. Persons responsible for performing the borings must possess a current C-57 State Well Contractors License.
4. A hard copy of the report of SVE well installation and pilot testing shall be forwarded to Carl Bernhardt at the Santa Ana Regional Water Quality Control Board.

August 14, 2006
Former Shell/Texaco Station
Page 2

If you have any questions, please call me at (909) 386-8419.

A handwritten signature in cursive script that reads "Lisa Holst".

**LISA HOLST, R.E.H.S.
ENVIRONMENTAL HEALTH SPECIALIST II
HAZARDOUS MATERIALS DIVISION
UST COMPLIANCE / SITE REMEDIATION PROGRAM**

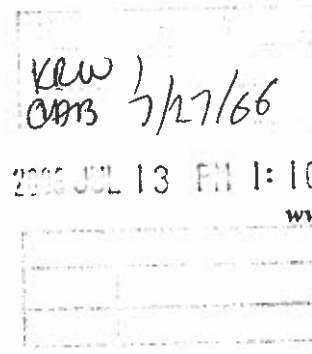
cc: Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Kathryn Swords, Delta Environmental Consultants, Inc., Monrovia Office
Fahim S. Tanios



Solving environment-related business problems worldwide

911 South Primrose Avenue • Suite K
Monrovia, California 91016 USA

626.256.6662 800.477.7411
Fax 626.256.6263



2006 JUL 13 PM 1:10

www.deltaenv.com

June 30, 2006
DELTA Project PA22045-1
SAP # 120906

Ms. Lisa Holst
San Bernardino County Fire Department
Hazardous Materials Division
620 South E. Street
San Bernardino, California 92415-0153

Re: SECOND QUARTER 2006 GROUNDWATER MONITORING REPORT
Former Shell Service Station
22045 Barton Road
Grand Terrace, California
Site # 2004027

Dear Ms. Holst:

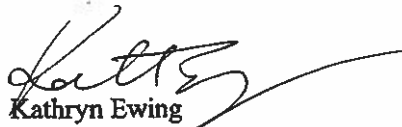
On behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL), Delta Environmental Consultants, Inc. (DELTA) has prepared this *Second Quarter 2006 Groundwater Monitoring Report* for the above referenced site.

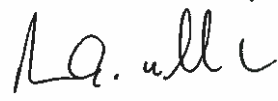
This quarterly report represents DELTA's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.

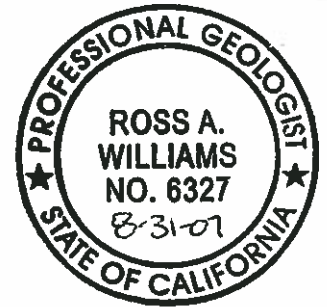
June 30, 2006
Page 2

If you have any questions regarding this site, please contact either Kathryn Ewing (DELTA) or Monica Cash-Ortega (DELTA Project Manager) at (626) 256-6662. The SHELL Project Manager is Mr. Randy Orłowski; Mr. Orłowski can be reached at (949) 360-1111.

Sincerely,
Delta Environmental Consultants, Inc.


Kathryn Ewing
Project Geologist


Ross A. Williams, P.G. 6327
Senior Geologist

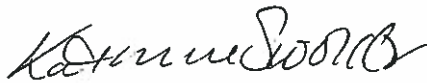


Attachments: Second Quarter 2006 Groundwater Monitoring Report

cc: Mr. Randy Orłowski, SHELL
Mr. Fahim Tanios c/o Bleau, Fox & Fong
Mr. Larry Jacobs, SHELL
Mr. Carl Bernhardt, SARWQCB
Ms. Monica Cash-Ortega, DELTA

If you have any questions regarding this site, please contact either Ms. Katherine Swords (DELTA Project Manager) or Mr. Monica Cash-Ortega (DELTA) at (626) 256-6662. The SHELL Project Manager is Mr. Randy Orlowski; Mr. Orlowski can be reached at (949) 360-1111.

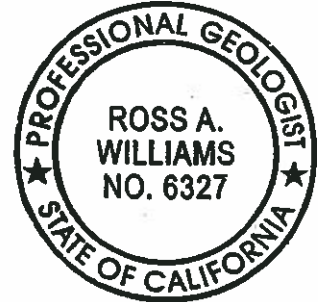
Sincerely,
Delta Environmental Consultants, Inc.



Katherine Swords
Senior Project Engineer



Ross Williams, P.G. 6327
Senior Project Geologist



Attachments: Third Quarter 2006 Groundwater Monitoring Report

cc: Mr. Randy Orlowski, Shell Oil Products US
Mr. Fahim Tanios c/o Bleau, Fox & Fong
Mr. Larry Jacobs, Shell Oil Products US
Mr. Carl Bernhardt, Santa Ana Regional Water Quality Control Board
Ms. Monica Cash-Ortega, DELTA Environmental Consultants, Inc.

September 29, 2006

SHELL QUARTERLY STATUS REPORT

Station Address.:	22045 Barton Road, Grand Terrace
DELTA Project No.	PA22045-1
SHELL Project Manager/Phone No.:	Randy Orłowski / (949) 360-1111
DELTA Site Manager/Phone No.:	Katherine Swords / (626) 256-6662
Primary Agency/Regulatory ID No.:	San Bernardino County Fire Department (SBDFD) / Ms. Lisa Holst
Other Agencies to Receive Copies:	Santa Ana Regional Water Quality Control Board (SARWQCB)

WORK PERFORMED THIS QUARTER (THIRD - 2006):

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.
2. Submitted an *Addendum to Work Plan for Soil Vapor Extraction Well Installation and Pilot Testing*, dated August 7, 2006 to the SBCFD.
3. Communication with SBCFD regarding property owner's pending developments.
4. Received approval letter dated August 14, 2006 from SBCFD for *Work Plan for Soil Vapor Extraction Well Installation and Pilot testing* dated January 16, 2006, *Addendum to Work Plan for Soil Vapor Extraction Well Installation and Pilot testing* dated May 18, 2006, *Addendum to Work Plan for Soil Vapor Extraction Well Installation and Pilot testing* dated August 7, 2006.
5. Coordinate with property owner to maintain wells during re-development.
6. Coordinated soil vapor extraction (SVE) well installation and SVE pilot testing activities.

WORK PROPOSED FOR NEXT QUARTER (FOURTH - 2006):

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.
2. Coordinate with property owner to maintain wells during property re-development.
3. Conduct work proposed in *Work Plan for Soil Vapor Extraction Well Installation and Pilot testing* dated January 16, 2006, *Addendum to Work Plan for Soil Vapor Extraction Well Installation and Pilot testing* dated May 18, 2006, *Addendum to Work Plan for Soil Vapor Extraction Well Installation and Pilot testing* dated August 7, 2006 and submit report.

September 29, 2006

SHELL QUARTERLY STATUS REPORT(CONTINUED)

Current Phase of Project:	Groundwater Monitoring / Corrective Action Planning
Frequency of Sampling:	Quarterly
Frequency of Monitoring:	Quarterly
Is Separate Phase Hydrocarbon Present On-site (Well #'s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Bulk Soil Removed to Date:	1,177 tons
Sensitive Receptor(s) Information:	Nearest active water supply well is located approximately 951 feet south of the site (City of Riverside Water Division Public Utilities Department State Well No. 02S/04W-05C01S).
Approximate Depth to Groundwater:	137.17' to 139.72'
Groundwater Gradient	0.009 ft/ft towards the southwest
Current Agency Correspondence	SBCFD letter dated August 14, 2006 (Appendix A).
Summary of Unusual Activity:	None



Katherine Swords
Site Manager (DELTA)

ATTACHED:

- Table 1 – Historical Groundwater Gauging and Analytical Results
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Hydrocarbon Distribution in Groundwater Map
- Figure 4 – TPH-d Concentration Map
- Figure 5 – TPH-g Concentration Map
- Figure 6 – Benzene Concentration Map
- Figure 7 – MTBE Concentration Map
- Appendix A – SBCFD Correspondence Letter dated August 14, 2006
- Appendix B – Field Data Sheets
- Appendix C – Field Procedures
- Appendix D – Waste Disposal Document
- Appendix E – Laboratory Report and Chain-of-Custody Documents

TABLE

TABLE 1
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL RESULTS

SHELL SERVICE STATION
22045 Barton Road, Grand Terrace, California

DATE	DEPTH TO GW (feet)	SPH THICKEN (feet)	GW ELEV. (feet relative to MSL)	TPH-D (ug/L)	TPH-C (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL-BENZENE (ug/L)	TOTAL XYLENES (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	ETHANOL (ug/L)	COMMENTS
MW-1																
Top of casing elevation (ft): 990.55																
9/20/2005	135.83	0.00	854.72													
9/22/2005	135.55	0.00	855.00													
9/30/2005	135.70	0.00	854.85	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.74	0.00	852.81	ND<470	62	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	137.63	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.50	0.00	854.05	ND<470	ND<50	ND<0.50	ND<0.50	0.63	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.92	0.00	852.63	ND<470	63	ND<0.50	ND<0.50		ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-3																
Top of casing elevation (ft): 991.14																
9/20/2005	137.85	0.00	853.29													
9/30/2005	137.76	0.00	853.38	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	14	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	139.44	0.00	851.70	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	2.1	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	139.27	0.00	851.87	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	138.22	0.00	852.92	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	139.72	0.00	851.42	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-4																
Top of casing elevation (ft): 990.07																
9/20/2005	135.77	0.00	854.30													
9/30/2005	135.74	0.00	854.33	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.67	0.00	852.40	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	137.48	0.00	852.59	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	136.43	0.00	853.64	ND<470	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.70	0.00	852.37	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
MW-5																
Top of casing elevation (ft): 989.48																
9/20/2005	135.24	0.00	854.24													
9/22/2005	135.01	0.00	854.47													
9/30/2005	135.19	0.00	854.29	ND<500	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	
12/16/2005	137.00	0.00	852.48	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
1/25/2006	136.92	0.00	852.56	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
4/20/2006	135.70	0.00	853.78	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
7/26/2006	137.17	0.00	852.31	ND<470	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<150	
Notes:																
GW = groundwater																
SPH = separate-phase hydrocarbons																
MSL = mean sea level																
ND = not detected																
ug/L = parts per billion																
TPH-G = total petroleum hydrocarbons as gasoline analyzed using the California DHS LUFT Method																
TPH-D = total petroleum hydrocarbons as diesel analyzed using the California DHS LUFT Method																
Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B																
MTBE = methyl tertiary butyl ether analyzed using EPA Method 8260B																
TBA = tertiary butyl alcohol analyzed using EPA Method 8260B																
DIPE = diisopropyl ether analyzed using EPA Method 8260B																
ETBE = ethyl tertiary butyl ether analyzed using EPA Method 8260B																
TAME = tertiary amyl methyl ether analyzed using EPA Method 8260B																

FIGURES

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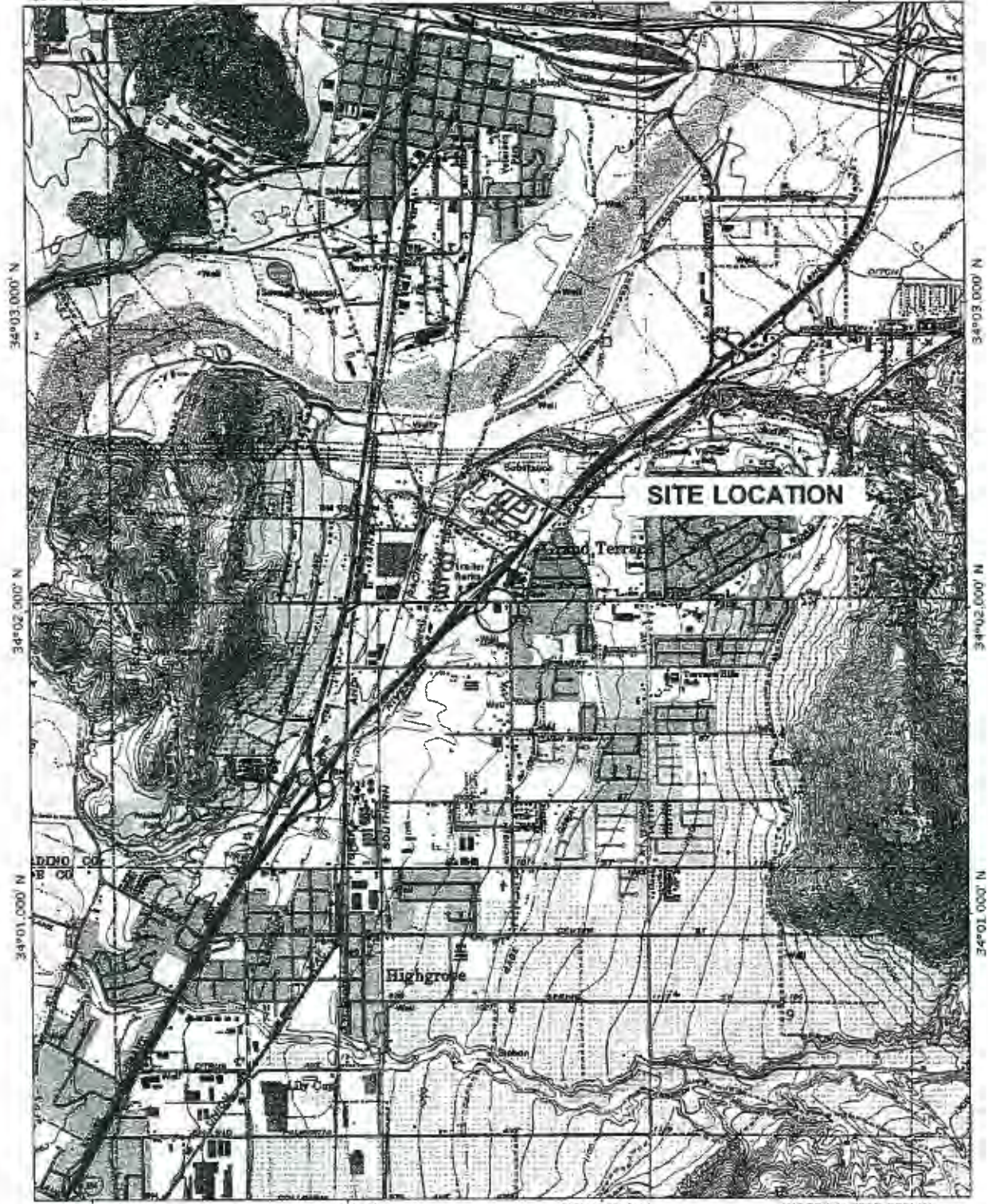
APPROVED BY

CHECKED BY

DRAWN BY LC

Oil map printed on 10/02/02 from "California topo" and "Untr"

117°21.000' W 117°20.000' W 117°19.000' W WGS84 117°18.000' W



117°21.000' W 117°20.000' W 117°19.000' W WGS84 117°18.000' W
1:50,000
3000 FEET 0 500 1000 METERS
Printed from TOPO ©2001 National Geographic Knowledge (www.ngs.com)



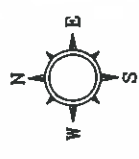
DELTA
ENVIRONMENTAL
CONSULTANTS INC.

SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 1
SITE LOCATION MAP

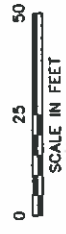
22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA

PROJECT NUMBER	PA22045-1
APPROVED BY	
CHECKED BY	
DRAWN BY	LM



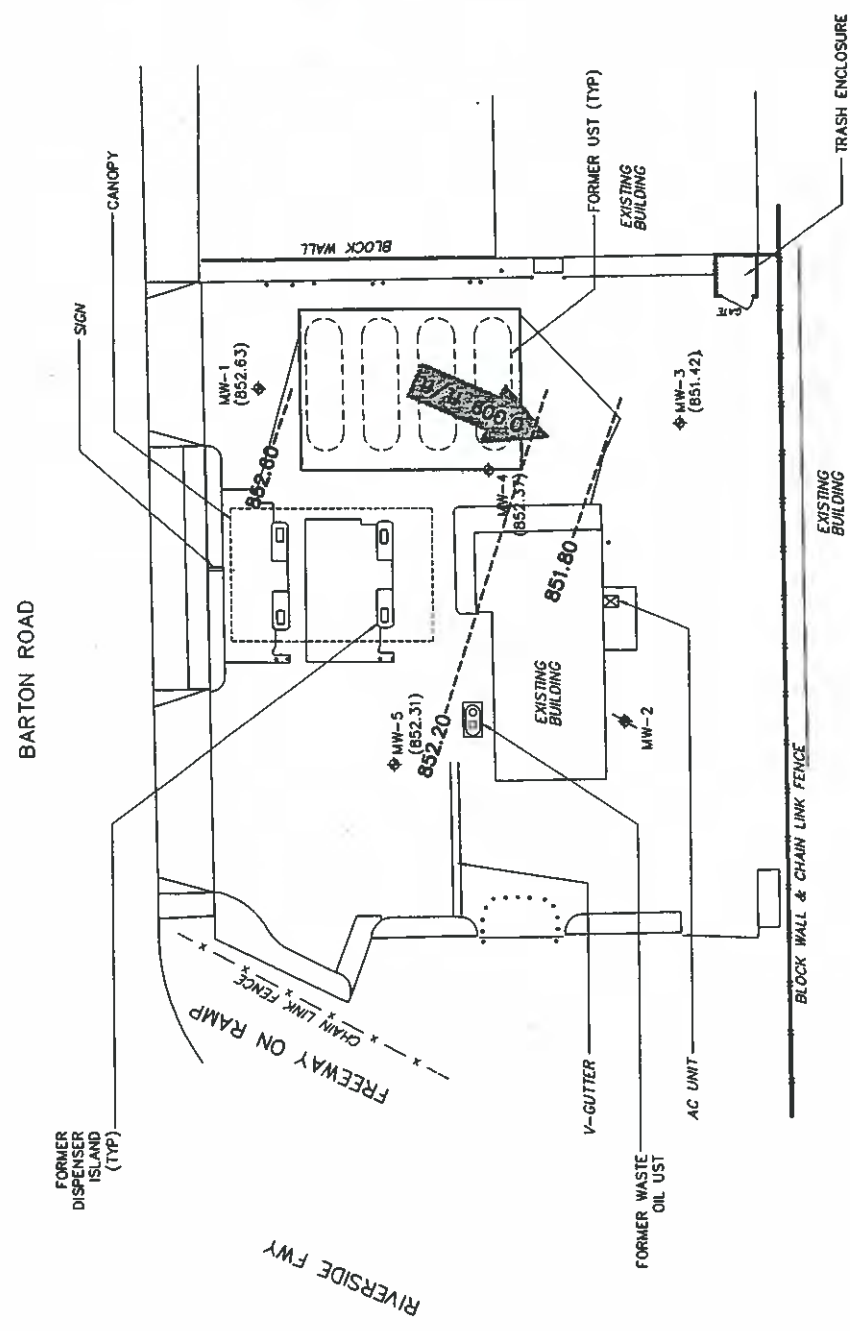
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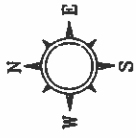
- MW-1 \diamond GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ∇ ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- (852.63) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (F/MSL)
- 852.20 - - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (F/MSL)
- 9.000 ft/ft \downarrow APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)



Delta ENVIRONMENTAL CONSULTANTS INC.
 SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 2
 GROUNDWATER ELEVATION CONTOUR MAP
 07/26/06
 22045 BARTON ROAD
 GRAND TERRACE, CALIFORNIA





LEGEND

- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- MTBE METHYL TERT-BUTYL ETHER
- µg/L MICROGRAMS PER LITER
- ND< NOT DETECTED ABOVE LIMIT NOTED

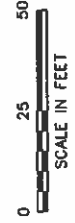
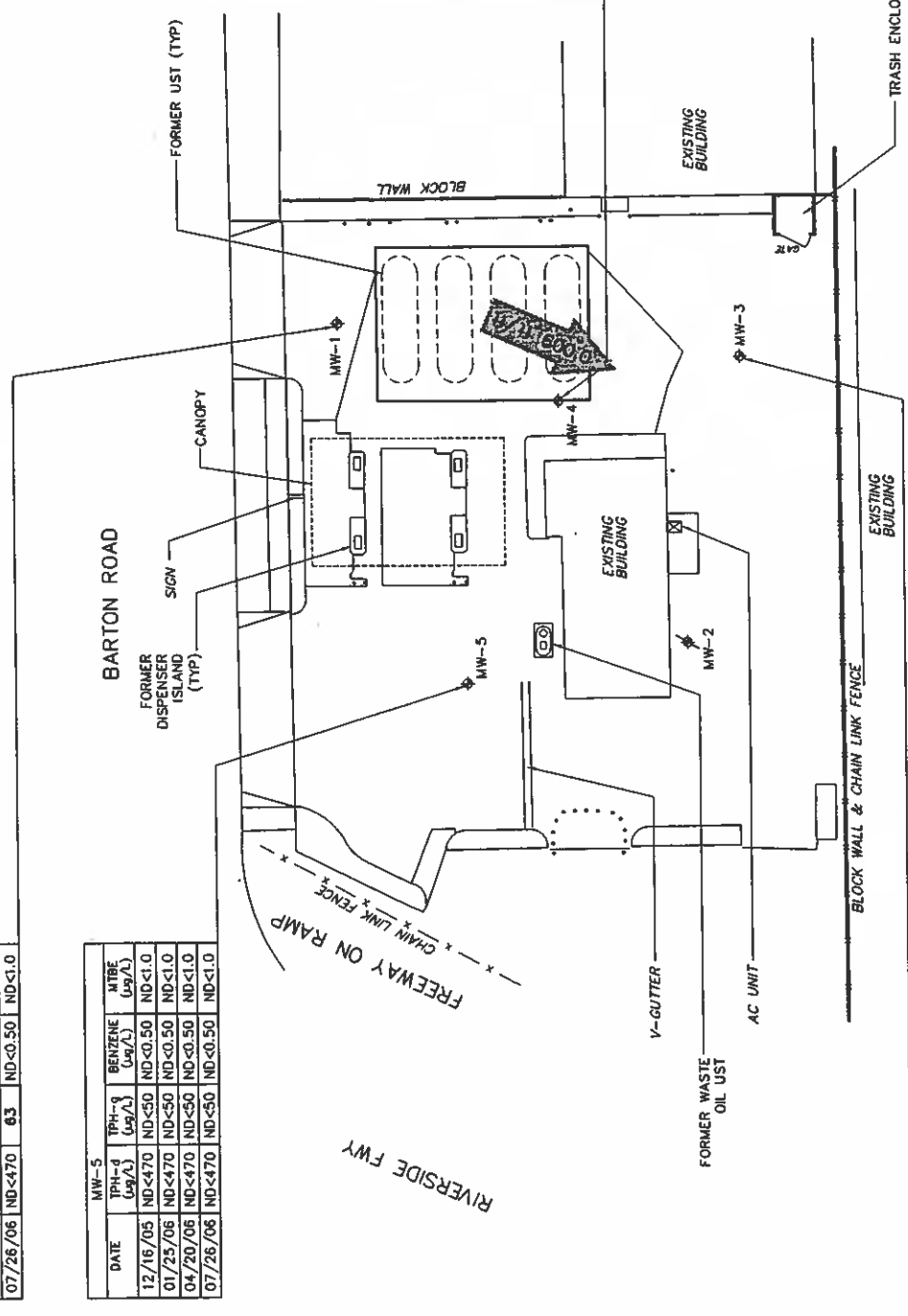


MW-1				
DATE	TPH-d (µg/L)	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)
12/16/05	ND<470	62	ND<0.50	ND<1.0
01/25/06	ND<470	ND<50	ND<0.50	ND<1.0
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	63	ND<0.50	ND<1.0

MW-5				
DATE	TPH-d (µg/L)	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)
12/16/05	ND<470	ND<50	ND<0.50	ND<1.0
01/25/06	ND<470	ND<50	ND<0.50	ND<1.0
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0

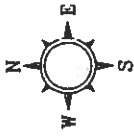
MW-4				
DATE	TPH-d (µg/L)	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)
12/16/05	ND<470	ND<50	ND<0.50	ND<1.0
01/25/06	ND<470	ND<50	ND<0.50	ND<1.0
04/20/06	ND<470	53	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0

MW-3				
DATE	TPH-d (µg/L)	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)
12/16/05	ND<470	ND<50	ND<0.50	2.1
01/25/06	ND<470	ND<50	ND<0.50	ND<1.0
04/20/06	ND<470	ND<50	ND<0.50	ND<1.0
07/26/06	ND<470	ND<50	ND<0.50	ND<1.0



Delta ENVIRONMENTAL CONSULTANTS INC.
 SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 3
 HYDROCARBON DISTRIBUTION
 IN GROUNDWATER MAP
 27045 BARTON ROAD
 GRAND TERRACE, CALIFORNIA



LEGEND

- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- ND≤ 570 TPH-d CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- ND< NOT DETECTED ABOVE LIMIT NOTED

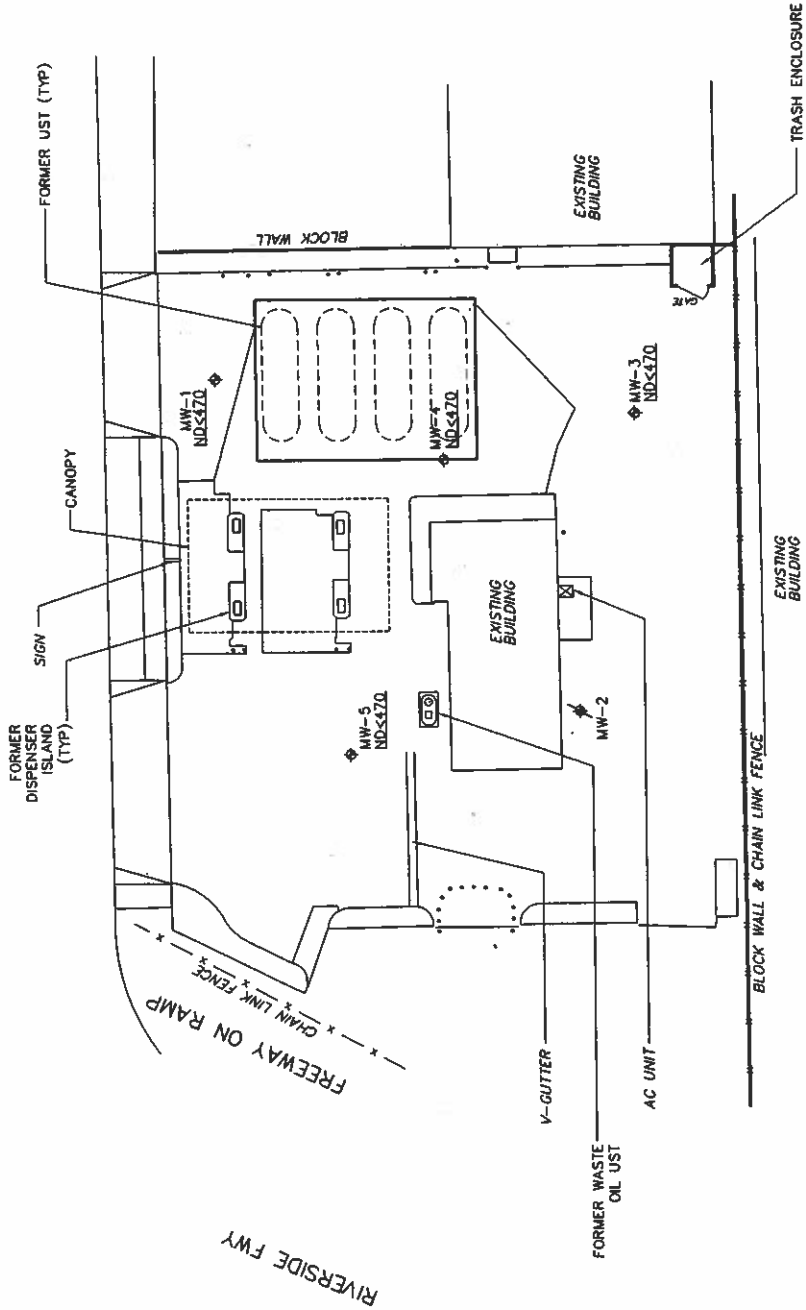


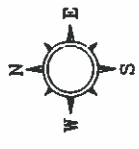
SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 4
TPH-d CONCENTRATION MAP
07/26/06

22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA

BARTON ROAD





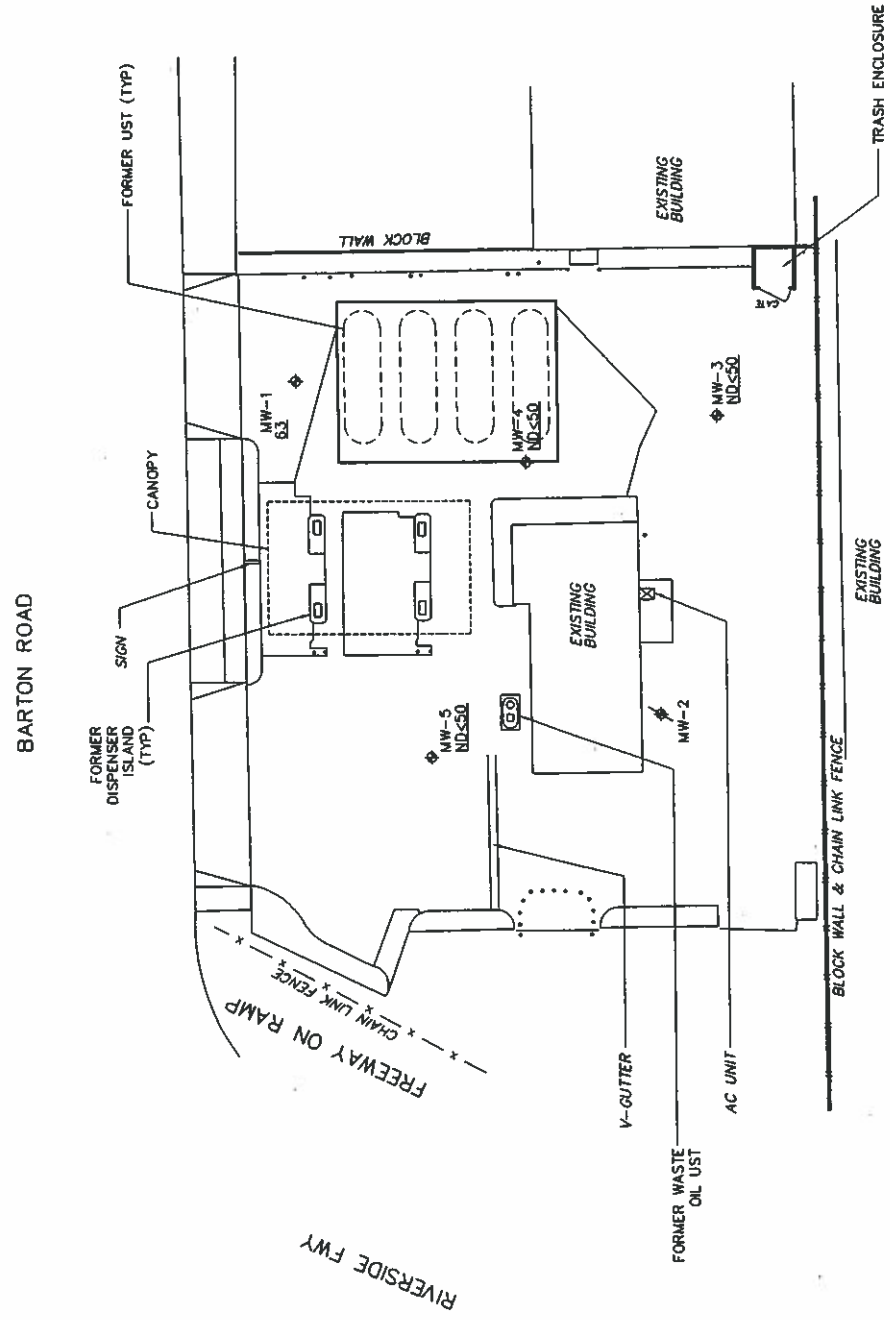
LEGEND

- MW-1 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ✦ ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- ND<50 TPH-9 CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- TPH-9 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- ND< NOT DETECTED ABOVE LIMIT NOTED

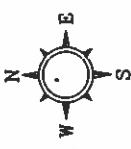


Delta ENVIRONMENTAL CONSULTANTS INC.
 SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 5
 TPH-9 CONCENTRATION MAP
 07/26/06
 22045 BARTON ROAD
 GRAND TERRACE, CALIFORNIA

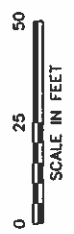


LIN				
DRAWN BY		CHECKED BY		
APPROVED BY				
PROJECT NUMBER	PA22045-1			



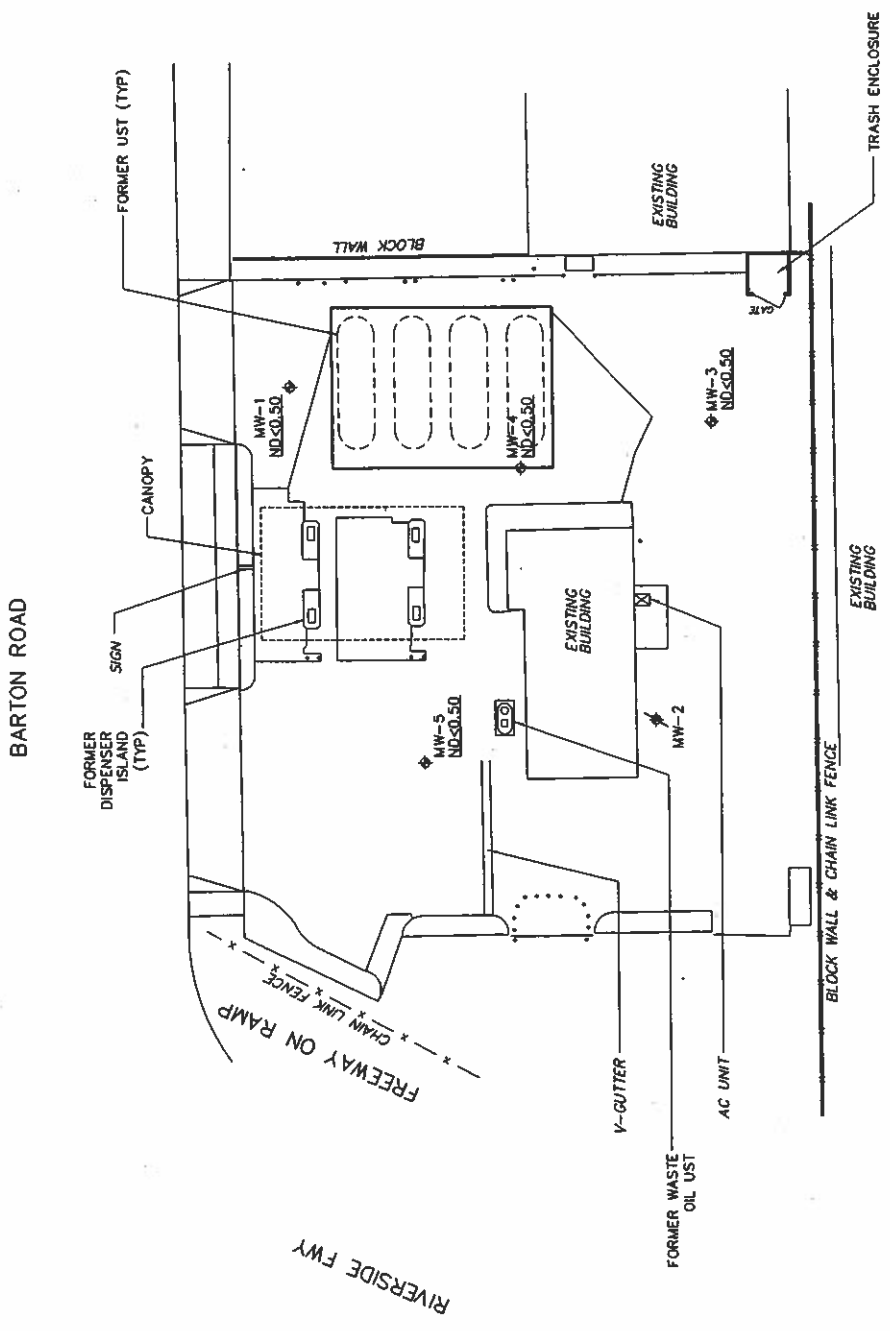
LEGEND

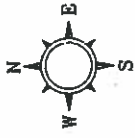
- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- ND<0.50 Benzene concentration in groundwater in micrograms per liter (ug/L)
- ND< NOT DETECTED ABOVE LIMIT NOTED



Delta ENVIRONMENTAL CONSULTANTS INC.
 SHELL OIL PRODUCTS US
 FORMER SHELL SERVICE STATION
 COLTON, CALIFORNIA

FIGURE 6
 BENZENE CONCENTRATION MAP
 07/26/06
 22045 BARTON ROAD
 GRAND TERRACE, CALIFORNIA





LEGEND

- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (DELTA, 2005)
- MW-2 ABANDONED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION (GRASP 2001)
- ND<1.0 MTBE CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
- ND< NOT DETECTED ABOVE LIMIT NOTED
- MTBE METHYL TERT-BUTYL ETHER

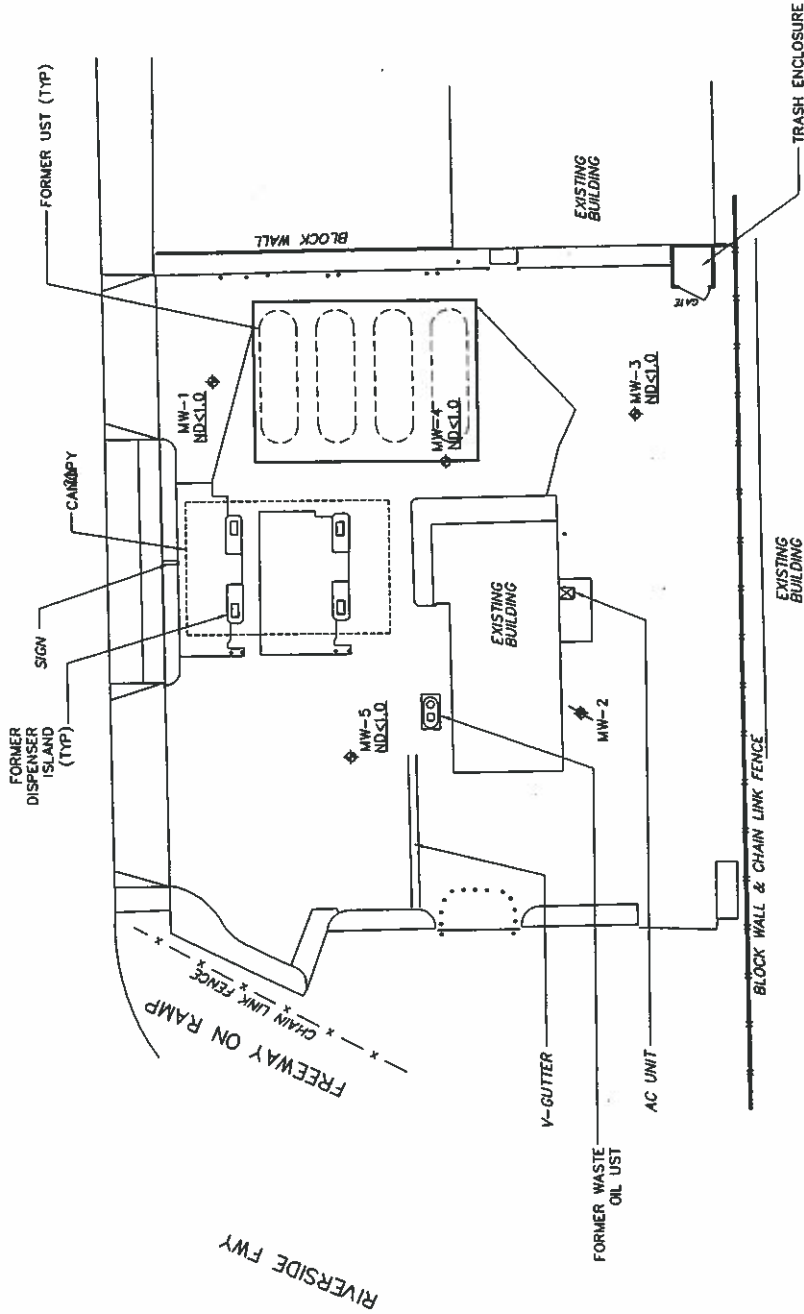


SHELL OIL PRODUCTS US
FORMER SHELL SERVICE STATION
COLTON, CALIFORNIA

FIGURE 7
MTBE CONCENTRATION MAP
07/26/08

22045 BARTON ROAD
GRAND TERRACE, CALIFORNIA

BARTON ROAD



COUNTY FIRE DEPARTMENT

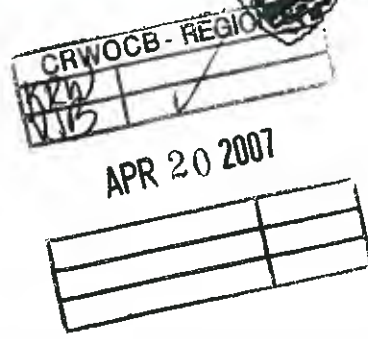
COUNTY OF SAN BERNARDINO
PUBLIC AND SUPPORT
SERVICES GROUP

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460



PAT A. DENNEN
Fire Chief
County Fire Warden

April 18, 2007



ALI M. YASIN
22975 ORANGEWOOD COURT
GRAND TERRACE, CALIFORNIA 92324

SITE # 99012

SUBJECT: REQUIREMENT TO COMMENCE SOIL REMEDIATION AND QUARTERLY REPORTING REQUIREMENTS FOR THE QWIK STOP #5 LOCATED AT 22087 BARTON ROAD, GRAND TERRACE, CALIFORNIA

ARCO

1. The Department issued correspondence dated October 31, 2005 which stated conditional approval for the remedial action plan dated September 14, 2005 submitted by Artmn Inc. In that letter, it was requested that soil and groundwater treatment (dual phase extraction) be implemented by December 31, 2005. In my telephone conversation with Anton Markarian of Artmn on April 13, 2007, he stated that the approved remedial action plan has not been implemented. The Department requires that the remedial action plan be implemented at this site by **June 18, 2007**.
2. The Department has reviewed the document titled "Fourth Quarter 2006 Groundwater Monitoring Report" for the subject facility dated January 19, 2007. Department records indicate that complete quarterly reports have not been submitted on a continuous basis for the subject facility. Groundwater monitoring reports and free product recovery reports do not completely fulfill this requirement. The California Code of Regulations, Title 23, Section 2652(d) requires that until the investigation and cleanup are complete, the owner or operator shall submit reports to the local agency every three months or more frequently. Reports shall include but are not limited to: an update of the information regarding the release reporting and the results of all investigation, monitoring or other corrective actions which have occurred during the reporting period. Information required by Section 2653 (Initial Abatement Action Requirements) and Section 2654 (Initial Site Characterization Requirements) shall be submitted as part of the periodic report to the local agency.

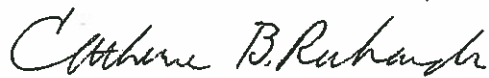
ALI M. YASIN

April 18, 2007

Page 2

3. In the referenced quarterly report, your consultant has recommended that the sampling frequency of the monitoring wells be changed from quarterly to semiannually or annually. The Department recommends that the monitoring wells continue to be sampled quarterly because of the contaminant concentrations in the aquifer and to accurately monitor future corrective actions.

If you have any questions, please call me at (909) 386-8419.



**CATHERINE B. RICHARDS, R.E.H.S.
HAZARDOUS MATERIALS SPECIALIST II
UST COMPLIANCE/LOCAL OVERSIGHT PROGRAM**

CBR/lld

cc: Valerie Jahn-Bull, Regional Water Quality Control Board, Santa Ana Region
Robin Chang, P.G., Artmn Inc.

Wew



HAZARDOUS MATERIALS DIVISION
385 North Arrowhead Avenue, Second Floor • San Bernardino, CA 92415-0153

PETER R. HILLS
Fire Chief
County Fire Warden

LJA

REMEDIAL ACTION COMPLETION CERTIFICATION

MAR 15 2000

RONALD AND BETTY WHITE
918 WEST 25TH STREET
UPLAND, CA 91784

SITE #99084

**SUBJECT: UNDERGROUND STORAGE TANK (UST) CASE CLOSURE FOR
GRAND TERRACE GAS-UP #2603
22115 BARTON ROAD, GRAND TERRACE, CALIFORNIA
UNAUTHORIZED RELEASE REPORT DATED 4/14/99**

This letter confirms the completion of site investigation and corrective action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact Lisa Holst of our office at (909) 387-3041 if you have any questions regarding this matter.

Sincerely,

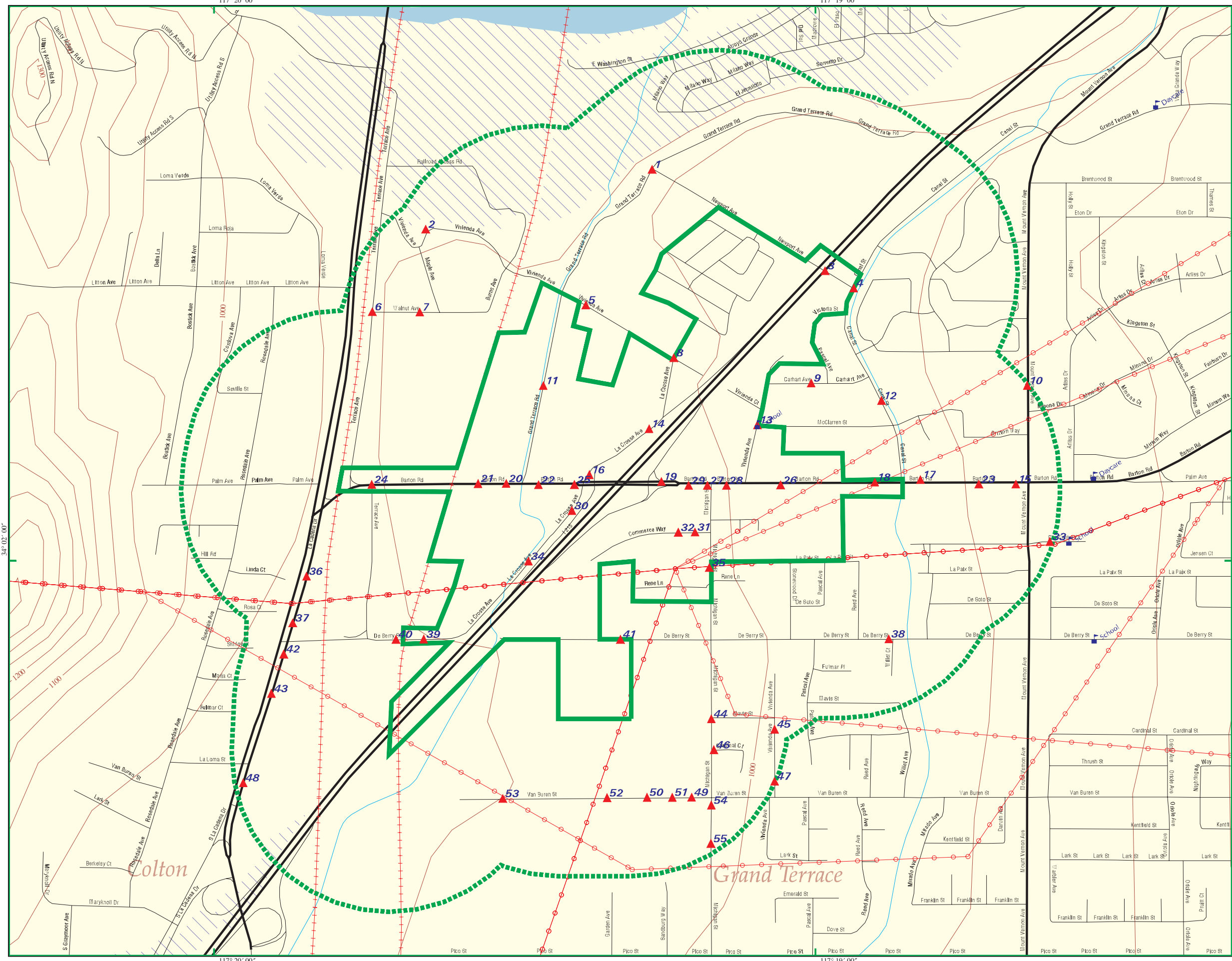
**PETER S. BRIERTY, DIVISION CHIEF
HAZARDOUS MATERIALS DIVISION**

RAR cc: Ken Williams, C.E.G., Regional Water Quality Control Board
Nancy Comacho, State Water Resources Control Board

APPENDIX C

**REGULATORY AGENCY DATABASE SUMMARY
(CD FORMAT)**

Barton/I-215 Interchange



- Listed Sites
- Earthquake Epicenters (Richter 5 or greater)
- Search Boundary
- Roads
- Major Roads
- Waterways
- Railroads
- Contour Lines
- Pipelines
- Powerlines
- Fault Lines
- Water
- Superfund Sites
- Federal DOD Sites
- Indian Reservations BIA
- 100-Yr Flood Zones



Grand Terrace, CA

0 1/8 1/4



Scale in Miles



Barton/I-215 Interchange
Grand Terrace, CA 92313

Inquiry Number: 02403170.4r
January 21, 2009

EDR DataMap™ Area Study

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

GRAND TERRACE, CA 92313
GRAND TERRACE, CA 92313

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL LIENS	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
LIENS 2	CERCLA Lien Information
CORRACTS	Corrective Action Report
RCRA-TSDF	RCRA - Transporters, Storage and Disposal
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOT OPS	Incident and Accident Data
US CDL	Clandestine Drug Labs
US BROWNFIELDS	A Listing of Brownfields Sites
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
LUCIS	Land Use Control Information System
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System

EXECUTIVE SUMMARY

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

STATE AND LOCAL RECORDS

HIST Cal-Sites..... Historical Calsites Database
CA BOND EXP. PLAN..... Bond Expenditure Plan
SCH..... School Property Evaluation Program
Toxic Pits..... Toxic Pits Cleanup Act Sites
SWF/LF..... Solid Waste Information System
WMUDS/SWAT..... Waste Management Unit Database
SLIC..... Statewide SLIC Cases
LIENS..... Environmental Liens Listing
LDS..... Land Disposal Sites Listing
MCS..... Military Cleanup Sites Listing
DEED..... Deed Restriction Listing
VCP..... Voluntary Cleanup Program Properties
WIP..... Well Investigation Program Case List
RESPONSE..... State Response Sites
ENVIROSTOR..... EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV..... Indian Reservations
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land
INDIAN VCP..... Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 09/10/2008 has revealed that there are 2

EXECUTIVE SUMMARY

RCRA-LQG sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
VISTA SUBSTATION	22200 NEWPORT AVE	4	7
WILDEN PUMP AND ENGINEERING	22069 VAN BUREN STREET	49	110

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/10/2008 has revealed that there are 3 RCRA-SQG sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SUPER CLEANERS	22310 BARTON RD	18	44
STATER BROS	21700 BARTON RD	24	58
TEXACO SERVICE STATION	22045 BARTON RD	29	93

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 09/10/2008 has revealed that there is 1 RCRA-NonGen site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
GRAND TERRACE	22471 BARTOW RD	17	41

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2007 has revealed that there are 5 ERNS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
22200 NEWPORT AVE.	22200 NEWPORT AVE.	4	6
22200 NEWPORT AVE.	22200 NEWPORT AVE.	4	12
22200 NEWPORT AV	22200 NEWPORT AV	4	12
22000 BARTON RD.	22000 BARTON RD.	19	47
22045 BARTON RD.	22045 BARTON RD.	29	88

EXECUTIVE SUMMARY

HMIRS: The Hazardous Materials Incident Report System contains hazardous material spill incidents reported to the Department of Transportation. The source of this database is the U.S. EPA.

A review of the HMIRS list, as provided by EDR, and dated 09/30/2008 has revealed that there is 1 HMIRS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
Not reported	22087 BARTON RD	27	74

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 10/30/2008 has revealed that there are 12 FINDS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
VISTA SUBSTATION	22200 NEWPORT AVENUE	4	8
IN & OUT PAINT & BODY CENTER	11900 LA CROSSE AV	8	18
GRAND TERRACE ELEMENTARY	12066 VIVIENDA AVE.	13	25
GRAND TERRACE	22471 BARTOW RD	17	41
SUPER CLEANERS	22310 BARTON RD	18	44
STATER BROS	21700 BARTON RD	24	58
AUTOZONE #5614	22125 BARTON RD	28	80
TEXACO SERVICE STATION	22045 BARTON RD	29	93
SHELL STATION	22045 BARTON ROAD	29	94
THE GAGE CANAL COMPANY	12224 MICHIGAN ST	35	99
WILDEN PUMP & ENGINEERING CO	22069 VAN BUREN ST	49	110
WILDEN PUMP AND ENGINEERING	22069 VAN BUREN STREET	49	110

STATE AND LOCAL RECORDS

CA WDS: California Water Resources Control Board - Waste Discharge System.

A review of the CA WDS list, as provided by EDR, and dated 06/19/2007 has revealed that there are 2 CA WDS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
STATER BROS	21700 BARTON RD	24	58
WILDEN PUMP & ENGINEERING COMP	22069 VAN BUREN ST	49	114

EXECUTIVE SUMMARY

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there are 5 Cortese sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
UNOCAL #4238	22483 BARTON RD	15	36
STATER BROS	21700 BARTON RD	24	58
QWIK STOP ARCO	22087 BARTON RD	27	77
GRAND TERRACE GAS-UP	22115 BARTON RD	28	81
TEXACO SERVICE STATION	22045 BARTON RD	29	90

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 10/06/2008 has revealed that there is 1 SWRCY site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
STATER BROS MARKETS #055	22441 BARTON RD	23	56

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 11/04/2008 has revealed that there are 7 LUST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
UNOCAL #4238 Status: Completed - Case Closed	22483 BARTON RD	15	36
STATER BROS Status: Completed - Case Closed	21700 BARTON RD	24	58
STATER BROTHERS DISTRIBUTION Status: Completed - Case Closed	21700 BARTON RD	24	69
QWIK STOP ARCO Status: Open - Site Assessment	22087 BARTON RD	27	77
GRAND TERRACE GAS-UP #2603 Status: Completed - Case Closed	22115 BARTON RD	28	83
FORMER SHELL STATION Status: Open - Site Assessment	22045 BARTON ROAD	29	88
TEXACO SERVICE STATION Status: Completed - Case Closed	22045 BARTON RD	29	90

EXECUTIVE SUMMARY

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 7 CA FID UST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SCE VISTA SUBSTATION	22200 NEWPORT AVE	4	5
EAGLE PLUMBING COMPANY	21718 WALNUT AVE	7	16
UNOCAL 76 STN #4238	22483 BARTON RD	15	38
BILL DARWIN	22324 BARTON RD	18	43
GRAND TERRACE GAS-UP	22115 BARTON RD	28	81
SAN BBDNO FIRE DEPT	22582 CITY CENTER CT	33	96
DAWCO CONSTRUCTION INC	12345 LA CADENA	42	105

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 11/04/2008 has revealed that there are 2 UST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
QUICK STOP #5	22087 BARTON RD	27	73
TAKOURIAN TEXACO	22045 BARTON RD	29	95

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 14 HIST UST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
VISTA SUBSTATION	22200 NEWPORT AVE	4	13
EAGLE PLUMBING COMPANY	21718 WALNUT AVE	7	17
MICHAEL J. CRIMER	21850 GRAND TERRACE RD	11	23
BEN REYNOLDS	21850 GRAND TERRACE RD	11	24
STATION #4238	22483 BARTON RD	15	34
UNION OIL SERVICE STATION #423	22483 BARTON RD	15	34
RUBEN LUNA	21801 BARTON RD	21	48
STATER BROS	21700 BARTON RD	24	58
TEXACO	22045 BARTON ROAD / R	25	72
MOBIL STATION #92	22087 BARTON RD	27	76
GRAND TERRACE GAS-UP	22115 BARTON RD	28	80
SAN BERNARDINO COUNTY FIRE DEP	22582 CITY CENTER CT	33	97
STATER BROS. DEVELOPMENT INC.	375 DE BERRY ST	40	104
WILDEN PUMP & ENGINEERING COMP	22069 VAN BUREN ST	49	114

EXECUTIVE SUMMARY

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 13 SWEEPS UST sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SCE VISTA SUBSTATION	22200 NEWPORT AVE	4	5
EAGLE PLUMBING COMPANY	21718 WALNUT AVE	7	16
UNOCAL 76 STN #4238	22483 BARTON RD	15	38
BILL DARWIN	22324 BARTON RD	18	43
RUBEN LUNA	21801 BARTON RD	21	48
CASEY, GEORGE/ETHYL TRUST	21801 BARTON RD	21	49
STATER BROS	21700 BARTON RD	24	58
MOBIL STATION #92	22087 BARTON RD	27	75
GRAND TERRACE GAS-UP	22115 BARTON RD	28	81
TEXACO	22045 BARTON RD	29	86
SAN BBDNO FIRE DEPT	22582 CITY CENTER CT	33	96
STATER BROS. DEVELOPMENT INC.	375 DE BERRY ST	40	104
DAWCO CONSTRUCTION INC	12345 LA CADENA	42	105

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/2007 has revealed that there are 4 CHMIRS sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
Not reported	22200 NEWPORT AVE.	4	8
Not reported	21700 BARTON RD.	24	56
Not reported	21700 BARTON RD	24	71
Not reported	22115 BARTON RD	28	85
Date Completed: 10-MAR-89			

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 11/01/2007 has revealed that there is 1 AST site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
VISTA SUBSTATION	22200 NEWPORT AVE	4	7

EXECUTIVE SUMMARY

Notify 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
TEXACO	22045 BARTON ROAD	29	90

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 09/23/2008 has revealed that there is 1 DRYCLEANERS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
USA CLEANERS	22499 BARTON RD	15	30

CDL: A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

A review of the CDL list, as provided by EDR, and dated 09/30/2008 has revealed that there are 4 CDL sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
Not reported	21712 VIVIENDA	2	5
Not reported	22111 NEWPORT STREET	3	5
Not reported	12297 LA CADENA DR	37	103
Not reported	12409 CARDINAL COURT	46	109

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 10/01/2008 has revealed that there are 41 San Bern. Co. Permit sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SCE-VISTA SUBSTATION	22200 NEWPORT AVE	4	12
LINDA VISTA CHLORINATION STATI	21824 VIVIENDA AVE	5	13
E&R ASSOCIATES	21600 WALNUT AVE	6	14
SO CAL PLUMBING, INC.	21718 WALNUT AVE	7	15
IN & OUT PAINT & BODY CENTER	11900 LA CROSSE AV	8	18
ANIMAL EMERGENCY CLINIC	12022 LA CROSSE AVE	14	27
USA CLEANERS	22499 BARTON RD	15	30
G & M OIL CO LLC # 105	22483 BARTON RD	15	33
CVS PHARMACY #8825	12071 MOUNT VERNON AVE	15	40

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SUPER CLEANERS	22310 BARTON RD F	18	43
HOUSTON & HARRIS PCS INC	21831 BARTON RD	20	47
J & L EQUIPMENT AND SERVICE	21825 BARTON RD	20	47
A & E CHARTER	21801 BARTON RD	21	49
MC MINN EQUIP RENTAL & LEASING	21801 E BARTON RD	21	51
CLINICAL LAB OF SAN BDNO	21881 BARTON RD	22	53
A-1 CLEANER	21900 BARTON RD	22	55
STATER BROS MARKETS #055	22441 BARTON RD	23	56
STATER BROS	21700 BARTON RD	24	58
QUICK STOP #5	22087 BARTON RD	27	74
MALY'S OF CALIFORNIA INC	22125 BARTON RD	28	79
AUTO ZONE # 5614	22125 BARTON RD	28	79
GRAND TERRACE GAS-UP	22115 BARTON RD	28	81
JERRY'S AUTO SERVICE	22115 BARTON RD	28	84
TEXACO SERVICE STATION	22045 BARTON RD	29	90
TEXACO REFINING/MRKTG INC	22045 BARTON RD	29	95
AIR LIQUIDE AMERICA CORP	2185 LA CROSSE AVE	30	95
CALIFORNIA SKATE GRAND TERRACE	22080 COMMERCE WAY	31	95
SUPERIOR POOL PROD LLC	22060 COMMERCE WAY	32	96
ORKIN PEST CONTROL #754	2233 LA CROSSE AVE	34	98
SURBER MACHINE	12210 MICHIGAN AVE 14	35	102
EXTREME PERFORMANCE	12210 MICHIGAN AVE 3	35	102
IMPORT CYCLE PARTS & REPR	12229 LA CADENA	36	102
STATER BROS MKTS	280 DE BERRY ST	39	103
STATER BROS. DEVELOPMENT INC.	375 DE BERRY ST	40	104
AT & T MOBILITY - GRAND TERRAC	21971 DE BERRY ST	41	105
INLAND OVERHEAD DOOR COMPANY	12401 S LA CADENA DR	43	106
WELL RIVERSIDE NORTH #6	12402 MICHIGAN AVE	44	106
SWERTFEGER EQUIPMENT INC	12438 MICHIGAN AVE	46	107
WILDEN PUMP AND ENGINEERING	22069 VAN BUREN STREET	49	110
ROADRUNNER STORAGE	21999 VAN BUREN ST	50	122
JET SET LIFE TECHNOLOGIES	21935 VAN BUREN ST '4'	53	123

HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, and dated 12/31/2006 has revealed that there are 41 HAZNET sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
SO CAL EDISON VISTA SUBSTATION	22200 NEWPORT AVE	4	10
E&R ASSOCIATES	21600 WALNUT AVE	6	14
SOCAL PLUMBING INC	21718 WALNUT AVE	7	15
IN OUT PAINT BODY CENTER	11900 LA CROSSE	8	21
CITY OF GRAND TERRACE	22208 CARHART	9	23
GRAYSTONE MULTI FAMILY BUILDER	11830 MOUNT VERNON AVE	10	23
FOLLEY DEVELOPEMENT CORP	11993 CANAL ST	12	24
GRAND TERRACE ELEMENTARY	12066 VIVIENDA	13	25
ANIMAL EMERGENCY CLINIC INC	12022 LA CROSSE AVENUE	14	26

EXECUTIVE SUMMARY

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
RED TERRACE LLC	22471 BARTON RD	15	27
USA CLEANERS	22499 BARTON RD	15	30
G & M OIL CO #105	22483 BARTON ROAD	15	35
UNOCAL #4238	22483 BARTON RD	15	36
CVS PHARMACY NO 8825	12071 MOUNT VERNON AVE	15	40
BANK OF THE WEST	2279 LACROSSE	16	41
CITY OF GRAND TERRANCE - REDEV	22293 BARTON RD	18	42
SUPER CLEANERS	22310 BARTON RD	18	44
ACCENT PRINT & DESIGN	21800 BARTON ROAD	21	50
ACCENT PRINT, INC.	21800 BARTON RD.	21	50
CLINICAL LAB OF SAN BERNARDINO	21881 BARTON RD	22	52
A1 CLEANERS	21900 BARTON RD., #130	22	54
STATER BROS	21700 BARTON RD	24	58
JACOBSON FH 2	22193 BARTON RD	26	73
QWIK STOP ARCO	22087 BARTON RD	27	77
INLAND COMMERCIAL FUELING	22115 BARTON	28	81
TEXACO	22045 BARTON RD	29	86
FIRE STN #23	22582 CITY CENTER	33	98
R&L PAINTING	12210 MICHIGAN AVENUE	35	101
OTWELLS TIRE SERVICE	12210 MICHIGAN	35	101
GRAND TERRACE - SAN BERNARDINO	22316 DE BERRY ST	38	103
HUD	12395 VIVIENDA AVE	45	106
SWERTFEGER EQUIPMENT INC	12438 MICHIGAN AVE	46	107
HUD INTOWN PROPERTIES	12474 VIVIENDA AVE	47	109
WILLIAM KERRICK	2189 SOUTH LACADENA DRI	48	109
WILDEN PUMP & ENGINEERING COMP	22069 VAN BUREN STREET	49	119
HARBER CO INC	21999 VAN BUREN	50	120
WILDEN PUMP & ENGINEERING CO	22038 VAN BUREN ST	51	122
FINE LINE SCREEN PRINTING & GR	21935 VAN BUREN, #14	52	123
FINELINE SCREENPRINTING	21935 VAN BUREN	52	123
HUD INTOWN PROPERTIES	12510 MICHIGAN ST	54	124
THERESA MEYER	12559 MICHIGAN ST	55	124

EMI: Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the EMI list, as provided by EDR, and dated 12/31/2006 has revealed that there are 8 EMI sites within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
RIVERSIDE CITY, PUBLIC UTILITI	GRAND TERRACE	1	3
SO CAL EDISON VISTA SUBSTATION	22200 NEWPORT AVE	4	10
IN & OUT PAINT & BODY CENTER	11900 LA CROSSE AV	8	18
SURE-WAY PAINT & BODY INC	11900 LA CROSSE RD	8	21
RED TERRACE LLC	22471 BARTON RD	15	27
THE GAGE CANAL COMPANY	12224 MICHIGAN ST	35	99
WILDEN PUMP & ENGINEERING CO	22069 VANBUREN ST	49	114
WILDEN PUMP & ENGINEERING COMP	22069 VAN BUREN ST	49	114

EXECUTIVE SUMMARY

HAULERS: A listing of registered waste tire haulers.

A review of the HAULERS list, as provided by EDR, and dated 09/22/2008 has revealed that there is 1 HAULERS site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
CB TYRES RECYCLING RESOURCES,	21801 BARTON ROAD, UNIT	21	48

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>FEDERAL RECORDS</u>	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
CERCLIS	0
CERC-NFRAP	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	2
RCRA-SQG	3
RCRA-CESQG	0
RCRA-NonGen	1
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	5
HMIRS	1
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	12
RAATS	0
SCRD DRYCLEANERS	0
<u>STATE AND LOCAL RECORDS</u>	
HIST Cal-Sites	0
CA BOND EXP. PLAN	0
SCH	0
Toxic Pits	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
SWF/LF	0
WMUDS/SWAT	0
CA WDS	2
Cortese	5
SWRCY	1
LUST	7
CA FID UST	7
SLIC	0
UST	2
HIST UST	14
LIENS	0
SWEEPS UST	13
CHMIRS	4
LDS	0
AST	1
MCS	0
Notify 65	1
DEED	0
VCP	0
DRYCLEANERS	1
WIP	0
CDL	4
RESPONSE	0
San Bern. Co. Permit	41
HAZNET	41
EMI	8
ENVIROSTOR	0
HAULERS	1
 <u>TRIBAL RECORDS</u>	
INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
 <u>EDR PROPRIETARY RECORDS</u>	
Manufactured Gas Plants	0

NOTES:

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**1 RIVERSIDE CITY, PUBLIC UTILITI
 GRAND TERRACE
 GRAND TERRACE, CA 92324**

**EMI S105047790
 N/A**

EMI:

Year: 1995
 County Code: 36
 Air Basin: SC
 Facility ID: 83312
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 6
 Reactive Organic Gases Tons/Yr: 1
 Carbon Monoxide Emissions Tons/Yr: 2
 NOX - Oxides of Nitrogen Tons/Yr: 15
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1996
 County Code: 36
 Air Basin: SC
 Facility ID: 83312
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1997
 County Code: 36
 Air Basin: SC
 Facility ID: 83312
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1998
 County Code: 36
 Air Basin: SC

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

RIVERSIDE CITY, PUBLIC UTILITI (Continued)

S105047790

Facility ID: 83312
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1999
 County Code: 36
 Air Basin: SC
 Facility ID: 83312
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000
 County Code: 36
 Air Basin: SC
 Facility ID: 83312
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001
 County Code: 36
 Air Basin: SC
 Facility ID: 83312
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

RIVERSIDE CITY, PUBLIC UTILITI (Continued)

S105047790

Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	2005
County Code:	36
Air Basin:	SC
Facility ID:	83312
Air District Name:	SC
SIC Code:	4941
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.000075
Reactive Organic Gases Tons/Yr:	.000006855
Carbon Monoxide Emissions Tons/Yr:	.000245
NOX - Oxides of Nitrogen Tons/Yr:	.00022
SOX - Oxides of Sulphur Tons/Yr:	.000025
Particulate Matter Tons/Yr:	.00045
Part. Matter 10 Micrometers & Smlr Tons/Yr:	.0004473

2

**21712 VIVIENDA
 GRAND TERRACE, CA 92324**

**CDL S107530988
 N/A**

CDL:
 Facility ID: 200005029
 Lab Type: Illegal Drug Lab (L) - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

3

**22111 NEWPORT STREET
 GRAND TERRACE, CA 92324**

**CDL S107531109
 N/A**

CDL:
 Facility ID: 199705074
 Lab Type: Illegal Drug Lab (L) - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

4

**SCE VISTA SUBSTATION
 22200 NEWPORT AVE
 GRAND TERRACE, CA 91770**

**CA FID UST S101591250
 SWEEPS UST N/A**

CA FID UST:
 Facility ID: 36003079
 Regulated By: UTNKA
 Regulated ID: 00022248
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: Not reported
 Mail To: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SCE VISTA SUBSTATION (Continued)

S101591250

Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: GRAND TERRACE 91770
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:

Status: A
Comp Number: 22248
Number: 9
Board Of Equalization: 44-020411
Ref Date: 08-29-91
Act Date: 08-29-91
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 36-000-022248-000001
Actv Date: 07-11-88
Capacity: 2500
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 2

Status: A
Comp Number: 22248
Number: 9
Board Of Equalization: 44-020411
Ref Date: 08-29-91
Act Date: 08-29-91
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 2
Swrcb Tank Id: 36-000-022248-000002
Actv Date: 07-11-88
Capacity: 2500
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

4

**22200 NEWPORT AVE.
22200 NEWPORT AVE.
GRAND TERRACE, CA**

**ERNS 8868354
N/A**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

4	VISTA SUBSTATION 22200 NEWPORT AVE GRAND TERRACE, CA 92324	RCRA-LQG AST	1007199632 CAD981694185
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RCRA-LQG:

Date form received by agency: 10/12/2000
 Facility name: VISTA SUBSTATION
 Facility address: 22200 NEWPORT AVE
 GRAND TERRACE, CA 92324
 EPA ID: CAD981694185
 Mailing address: EA G01 405 WATER WASTE
 2244 WALNUT GROVE AVE
 ROSEMEAD, CA 91770
 Contact: DAVID KAY
 Contact address: Not reported
 Not reported
 Contact country: Not reported
 Contact telephone: (626) 302-2149
 Contact email: Not reported
 EPA Region: 09
 Classification: Large Quantity Generator
 Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown
 Mixed waste (haz. and radioactive): Unknown
 Recycler of hazardous waste: Unknown
 Transporter of hazardous waste: Unknown
 Treater, storer or disposer of HW: No
 Underground injection activity: Unknown
 On-site burner exemption: Unknown
 Furnace exemption: Unknown
 Used oil fuel burner: Unknown
 Used oil processor: Unknown
 User oil refiner: Unknown
 Used oil fuel marketer to burner: Unknown
 Used oil Specification marketer: Unknown
 Used oil transfer facility: Unknown
 Used oil transporter: Unknown
 Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 03/04/1999
 Facility name: VISTA SUBSTATION
 Classification: Large Quantity Generator

Date form received by agency: 02/29/1996

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

VISTA SUBSTATION (Continued)

1007199632

Facility name: VISTA SUBSTATION
 Site name: SOUTHERN CALIFORNIA EDISON
 Classification: Large Quantity Generator

Violation Status: No violations found

AST:

Owner: SOUTHERN CALIFORNIA EDISON CO.
 Total Gallons: 20000

4

**VISTA SUBSTATION
 22200 NEWPORT AVENUE
 GRAND TERRACE, CA 92324**

**FINDS 1004443163
 110000831734**

FINDS:

Other Pertinent Environmental Activity Identified at Site

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

4

**22200 NEWPORT AVE.
 GRAND TERRACE, CA 91770**

**CHMIRS S105673577
 N/A**

CHMIRS:

OES Incident Number: 01-3790
 OES notification: 7/2/200101:12:26 PM
 OES Date: Not reported
 OES Time: Not reported
 Incident Date: Not reported
Date Completed: Not reported
 Property Use: Not reported
 Agency Id Number: Not reported
 Agency Incident Number: Not reported
 Time Notified: Not reported
 Time Completed: Not reported
 Surrounding Area: Not reported
 Estimated Temperature: Not reported
 Property Management: Not reported
 Special Studies 1: Not reported
 Special Studies 2: Not reported
 Special Studies 3: Not reported
 Special Studies 4: Not reported
 Special Studies 5: Not reported
 Special Studies 6: Not reported
 More Than Two Substances Involved?: Not reported
 Resp Agncy Personel # Of Decontaminated: Not reported
 Responding Agency Personel # Of Injuries: Not reported
 Responding Agency Personel # Of Fatalities: Not reported
 Others Number Of Decontaminated: Not reported
 Others Number Of Injuries: Not reported
 Others Number Of Fatalities: Not reported
 Vehicle Make/year: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

(Continued)

S105673577

Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	So. CA Edison
Incident Date:	7/2/200112:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Utilities/Substation
E Date:	Not reported
Substance:	Mineral Oil
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	40
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0.000000
Description:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Equipment failure caused this release.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**4 SO CAL EDISON VISTA SUBSTATION
 22200 NEWPORT AVE
 COLTON, CA 92324**

**HAZNET 1000167633
 EMI N/A**

HAZNET:

Gepaid: CAD981694185
 Contact: SOUTHERN CALIFORNIA EDISON
 Telephone: 6263021212
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: ENVTL AFFAIRS RM 405 2244 WALNUT GRV AV
 Mailing City,St,Zip: ROSEMEAD, CA 917700800
 Gen County: San Bernardino
 TSD EPA ID: CAT000646117
 TSD County: Kings
 Waste Category: Other organic solids
 Disposal Method: Disposal, Land Fill
 Tons: .3000
 Facility County: San Bernardino

Gepaid: CAD981694185
 Contact: SOUTHERN CALIFORNIA EDISON
 Telephone: 6263021212
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: ENVTL AFFAIRS RM 405 2244 WALNUT GRV AV
 Mailing City,St,Zip: ROSEMEAD, CA 917700800
 Gen County: San Bernardino
 TSD EPA ID: CAD050806850
 TSD County: Los Angeles
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: .1500
 Facility County: San Bernardino

Gepaid: CAD981694185
 Contact: SOUTHERN CALIFORNIA EDISON
 Telephone: 6263021212
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: ENVTL AFFAIRS RM 405 2244 WALNUT GRV AV
 Mailing City,St,Zip: ROSEMEAD, CA 917700800
 Gen County: San Bernardino
 TSD EPA ID: CAD050806850
 TSD County: Los Angeles
 Waste Category: Polychlorinated biphenyls and material containing PCB's
 Disposal Method: Transfer Station
 Tons: 2.4750
 Facility County: San Bernardino

Gepaid: CAD981694185
 Contact: SOUTHERN CALIFORNIA EDISON
 Telephone: 6263021212
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: ENVTL AFFAIRS RM 405 2244 WALNUT GRV AV
 Mailing City,St,Zip: ROSEMEAD, CA 917700800
 Gen County: San Bernardino
 TSD EPA ID: CAD050806850

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SO CAL EDISON VISTA SUBSTATION (Continued)

1000167633

TSD County: Los Angeles
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: .6500
 Facility County: San Bernardino

Gepaid: CAD981694185
 Contact: SOUTHERN CALIFORNIA EDISON
 Telephone: 6263021212
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: ENVTL AFFAIRS RM 405 2244 WALNUT GRV AV
 Mailing City,St,Zip: ROSEMEAD, CA 917700800
 Gen County: San Bernardino
 TSD EPA ID: UTD981552177
 TSD County: 99
 Waste Category: Polychlorinated biphenyls and material containing PCB's
 Disposal Method: Treatment, Incineration
 Tons: 26.0625
 Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access
 72 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:

Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	51479
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0

Year:	1995
County Code:	36
Air Basin:	SC
Facility ID:	51479
Air District Name:	SC
SIC Code:	4911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

SO CAL EDISON VISTA SUBSTATION (Continued)

1000167633

Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

4	22200 NEWPORT AVE. 22200 NEWPORT AVE. GRAND TERRACE, CA	ERNS	88464589 N/A
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[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

4	22200 NEWPORT AV 22200 NEWPORT AV GRAND TERRACE, CA	ERNS	8855925 N/A
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[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

4	SCE-VISTA SUBSTATION 22200 NEWPORT AVE GRAND TERRACE, CA 92324	San Bern. Co. Permit	S104905542 N/A
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San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0006046
 Owner: SOUTHERN CALIFORNIA EDISON
 Permit Number: PT0003179
 Permit Category: ABOVEGROUND PETROLEUM STORAGE (AST) (SPCC)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006046
 Owner: SOUTHERN CALIFORNIA EDISON
 Permit Number: PT0003177
 Permit Category: GENERATOR - 11-25 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006046
 Owner: SOUTHERN CALIFORNIA EDISON
 Permit Number: PT0003178
 Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES (W/GEN PRMT)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

4	VISTA SUBSTATION 22200 NEWPORT AVE GRAND TERRACE, CA 91770	HIST UST	U001570530 N/A
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HIST UST:

Region: STATE
 Facility ID: 00000022248
 Facility Type: Other
 Other Type: ELECTRIC UTILITY
 Total Tanks: 0001
 Contact Name: SUPERVISOR
 Telephone: 8185721801
 Owner Name: SOUTHERN CALIFORNIA EDISON CO.
 Owner Address: 2244 WALNUT GROVE AVENUE
 Owner City,St,Zip: ROSEMEAD, CA 91770

Tank Num: 001
 Container Num: 309
 Year Installed: 1981
 Tank Capacity: 00002000
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: Not reported
 Leak Detection: Stock Inventor

5	LINDA VISTA CHLORINATION STATION 21824 VIVIENDA AVE GRAND TERRACE, CA 92313	San Bern. Co. Permit	S106718044 N/A
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San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0005749
 Owner: RIVERSIDE HIGHLAND WATER CO
 Permit Number: PT0004843
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: INACTIVE
 Expiration Date: 7/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0005749
 Owner: RIVERSIDE HIGHLAND WATER CO
 Permit Number: PT0017115
 Permit Category: RISK MANAGEMENT PLAN - LEVEL II
 Facility Status: INACTIVE
 Expiration Date: 7/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0005749
 Owner: RIVERSIDE HIGHLAND WATER CO
 Permit Number: PT0004844
 Permit Category: CALARP FACILITY PERMIT
 Facility Status: INACTIVE
 Expiration Date: 7/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0005749
 Owner: RIVERSIDE HIGHLAND WATER CO
 Permit Number: PT0013436
 Permit Category: EPCRA FACILITY
 Facility Status: INACTIVE

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

LINDA VISTA CHLORINATION STATION (Continued)

S106718044

Expiration Date: 7/31/2008 12:00:00AM

6

**E&R ASSOCIATES
 21600 WALNUT AVE
 GRAND TERRACE, CA 92313**

**HAZNET
 San Bern. Co. Permit**

**S106911261
 N/A**

HAZNET:

Gepaid: CAC002572282
 Contact: RAY DAUL
 Telephone: 9093700198
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21718 WALNUT AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 92313
 Gen County: San Bernardino
 TSD EPA ID: CAT080013352
 TSD County: San Bernardino
 Waste Category: Waste oil and mixed oil
 Disposal Method: Recycler
 Tons: 0.2
 Facility County: San Bernardino

Gepaid: CAC002572282
 Contact: RAY DAUL
 Telephone: 9093700198
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21718 WALNUT AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 92313
 Gen County: San Bernardino
 TSD EPA ID: CAT080013352
 TSD County: San Bernardino
 Waste Category: Waste oil and mixed oil
 Disposal Method: Not reported
 Tons: 0.2
 Facility County: San Bernardino

Gepaid: CAC002572282
 Contact: RAY DAUL
 Telephone: 9093700198
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21718 WALNUT AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 92313
 Gen County: San Bernardino
 TSD EPA ID: CAT080013352
 TSD County: Los Angeles
 Waste Category: Waste oil and mixed oil
 Disposal Method: Recycler
 Tons: 0.31
 Facility County: Not reported

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0008029
 Owner: E & R ASSOCIATES
 Permit Number: PT0014105

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

E&R ASSOCIATES (Continued)

S106911261

Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: INACTIVE
 Expiration Date: 11/30/2003 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0008029
 Owner: E & R ASSOCIATES
 Permit Number: PT0014285
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: INACTIVE
 Expiration Date: 11/30/2003 12:00:00AM

**7 SOCIAL PLUMBING INC
 21718 WALNUT AVE
 GRAND TERRACE, CA 92313**

**HAZNET S108220741
 N/A**

HAZNET:
 Gepaid: CAL000297163
 Contact: TROY DAUL
 Telephone: 9098720933
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12056 MT VERNON AVE PMB 158
 Mailing City,St,Zip: GRAND TERRACE, CA 923135116
 Gen County: San Bernardino
 TSD EPA ID: CAD980884183
 TSD County: Sacramento
 Waste Category: Unspecified organic liquid mixture
 Disposal Method: Transfer Station
 Tons: 0.12
 Facility County: Not reported

**7 SO CAL PLUMBING, INC.
 21718 WALNUT AVE
 GRAND TERRACE, CA 92313**

**San Bern. Co. Permit S104765271
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0002221
 Owner: DAUL, TROY
 Permit Number: PT0005348
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: INACTIVE
 Expiration Date: 9/30/2005 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0002221
 Owner: DAUL, TROY
 Permit Number: PT0017003
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 9/30/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0002221
 Owner: DAUL, TROY

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SO CAL PLUMBING, INC. (Continued)

S104765271

Permit Number: PT0017006
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 9/30/2009 12:00:00AM

7

**EAGLE PLUMBING COMPANY
 21718 WALNUT AVE
 GRAND TERRACE, CA 92324**

**CA FID UST S101619236
 SWEEPS UST N/A**

CA FID UST:

Facility ID: 36000955
 Regulated By: UTNKA
 Regulated ID: 00067618
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 7148771557
 Mail To: Not reported
 Mailing Address: 21718 WALNUT AVE
 Mailing Address 2: Not reported
 Mailing City,St,Zip: GRAND TERRACE 92324
 Contact: Not reported
 Contact Phone: Not reported
 DUNs Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

SWEEPS UST:

Status: A
 Comp Number: 67618
 Number: 9
 Board Of Equalization: Not reported
 Ref Date: 08-29-91
 Act Date: 08-29-91
 Created Date: 02-29-88
 Tank Status: Not reported
 Owner Tank Id: Not reported
 Swrcb Tank Id: Not reported
 Actv Date: Not reported
 Capacity: Not reported
 Tank Use: Not reported
 Stg: Not reported
 Content: Not reported
 Number Of Tanks: Not reported

Status: Not reported
 Comp Number: 67618
 Number: Not reported
 Board Of Equalization: Not reported
 Ref Date: Not reported
 Act Date: Not reported
 Created Date: Not reported
 Tank Status: Not reported
 Owner Tank Id: Not reported
 Swrcb Tank Id: 36-000-067618-000001
 Actv Date: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

EAGLE PLUMBING COMPANY (Continued)

S101619236

Capacity: 2000
 Tank Use: M.V. FUEL
 Stg: PRODUCT
 Content: REG UNLEADED
 Number Of Tanks: 2

Status: Not reported
 Comp Number: 67618
 Number: Not reported
 Board Of Equalization: Not reported
 Ref Date: Not reported
 Act Date: Not reported
 Created Date: Not reported
 Tank Status: Not reported
 Owner Tank Id: Not reported
 Swrcb Tank Id: 36-000-067618-000002
 Actv Date: Not reported
 Capacity: 2000
 Tank Use: M.V. FUEL
 Stg: PRODUCT
 Content: REG UNLEADED
 Number Of Tanks: Not reported

7

**EAGLE PLUMBING COMPANY
 21718 WALNUT AVE
 GRAND TERRACE, CA 92324**

**HIST UST U001574667
 N/A**

HIST UST:
 Region: STATE
 Facility ID: 00000067618
 Facility Type: Other
 Other Type: PLUMBING CONTRACTOR
 Total Tanks: 0002
 Contact Name: Not reported
 Telephone: 7148771557
 Owner Name: EAGLE PLUMBING COMPANY
 Owner Address: 21718 WALNUT AVE
 Owner City,St,Zip: GRAND TERRACE, CA 92324

Tank Num: 001
 Container Num: #1 (NORTH
 Year Installed: 1970
 Tank Capacity: 00001500
 Tank Used for: WASTE
 Type of Fuel: 2
 Tank Construction: Unkown inches
 Leak Detection: Visual

Tank Num: 002
 Container Num: #2 SOUTH T
 Year Installed: 1970
 Tank Capacity: 00001500
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: Not reported
 Leak Detection: Visual, None

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**8 IN & OUT PAINT & BODY CENTER
 11900 LA CROSSE AV
 GRAND TERRACE, CA 92324**

**FINDS 1005774027
 EMI 110002414539
 San Bern. Co. Permit**

FINDS:

Other Pertinent Environmental Activity Identified at Site

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

EMI:

Year: 1990
 County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 7
 Reactive Organic Gases Tons/Yr: 7
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1993
 County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 5
 Reactive Organic Gases Tons/Yr: 5
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1995
 County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 5
 Reactive Organic Gases Tons/Yr: 5
 Carbon Monoxide Emissions Tons/Yr: 0

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

IN & OUT PAINT & BODY CENTER (Continued)

1005774027

NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1996
 County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 3
 Reactive Organic Gases Tons/Yr: 3
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1997
 County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 3
 Reactive Organic Gases Tons/Yr: 3
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1998
 County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 3
 Reactive Organic Gases Tons/Yr: 3
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1999

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

IN & OUT PAINT & BODY CENTER (Continued)

1005774027

County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 3
 Reactive Organic Gases Tons/Yr: 3
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000
 County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 3
 Reactive Organic Gases Tons/Yr: 3
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001
 County Code: 36
 Air Basin: SC
 Facility ID: 58363
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 3
 Reactive Organic Gases Tons/Yr: 2
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0003928
 Owner: LAMBERT, TERRY
 Permit Number: PT0001360
 Permit Category: LIMITED QUANTITY GENERATOR(B)
 Facility Status: ACTIVE

MAP FINDINGS

Map ID		EDR ID Number
Direction		
Distance		
Distance (ft.)Site	Database(s)	EPA ID Number

IN & OUT PAINT & BODY CENTER (Continued)

1005774027

Expiration Date: 5/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0003928
 Owner: LAMBERT, TERRY
 Permit Number: PT0001361
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 5/31/2009 12:00:00AM

**8 SURE-WAY PAINT & BODY INC
 11900 LA CROSSE RD
 GRAND TERRACE, CA 92324**

**EMI S106840360
 N/A**

EMI:

Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	43619
Air District Name:	SC
SIC Code:	5511
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	21
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers & Smlr Tons/Yr:	2

**8 IN OUT PAINT BODY CENTER
 11900 LA CROSSE
 GRAND TERRACE, CA 92313**

**HAZNET S100571035
 N/A**

HAZNET:

Gepaid:	CAL000037830
Contact:	CARLOS G DUARTE
Telephone:	8188412068
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	307 S VICTORY BLVD
Mailing City,St,Zip:	BURBANK, CA 915022351
Gen County:	San Bernardino
TSD EPA ID:	CAD008252405
TSD County:	Los Angeles
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Recycler
Tons:	.9172
Facility County:	San Bernardino

Gepaid:	CAL000037830
Contact:	JANICE TOUBIA
Telephone:	8188412068
Facility Addr2:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

IN OUT PAINT BODY CENTER (Continued)

S100571035

Mailing Name: Not reported
 Mailing Address: 307 S VICTORY BLVD
 Mailing City,St,Zip: BURBANK, CA 915022351
 Gen County: San Bernardino
 TSD EPA ID: CAD008302903
 TSD County: Los Angeles
 Waste Category: Unspecified solvent mixture Waste
 Disposal Method: Recycler
 Tons: 1.01
 Facility County: Not reported

Gepaid: CAL000037830
 Contact: JANICE TOUBIA
 Telephone: 8188412068
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 307 S VICTORY BLVD
 Mailing City,St,Zip: BURBANK, CA 915022351
 Gen County: San Bernardino
 TSD EPA ID: CAD008302903
 TSD County: Los Angeles
 Waste Category: Unspecified solvent mixture Waste
 Disposal Method: Recycler
 Tons: 1.01
 Facility County: Not reported

Gepaid: CAL000037830
 Contact: JANICE TOUBIA
 Telephone: 8188412068
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 307 S VICTORY BLVD
 Mailing City,St,Zip: BURBANK, CA 915022351
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Not reported
 Disposal Method: Recycler
 Tons: 0
 Facility County: Not reported

Gepaid: CAL000037830
 Contact: JANICE TOUBIA
 Telephone: 8188412068
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 307 S VICTORY BLVD
 Mailing City,St,Zip: BURBANK, CA 915022351
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Unspecified solvent mixture Waste
 Disposal Method: Recycler
 Tons: 0.16
 Facility County: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

IN OUT PAINT BODY CENTER (Continued)

S100571035

[Click this hyperlink](#) while viewing on your computer to access
 11 additional CA_HAZNET: record(s) in the EDR Site Report.

9 CITY OF GRAND TERRACE HAZNET S106087210
22208 CARHART N/A
GRAND TERRACE, CA 92313

HAZNET:
 Gepaid: CAC002551925
 Contact: ALISA FLANN
 Telephone: 9098253825
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22795 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 92313
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Asbestos-containing waste
 Disposal Method: Disposal, Land Fill
 Tons: 0.75
 Facility County: Not reported

10 GRAYSTONE MULTI FAMILY BUILDERS HAZNET S108748045
11830 MOUNT VERNON AVE N/A
GRAND TERRACE, CA 92313

HAZNET:
 Gepaid: CAC002611127
 Contact: DAVID MCMAHAN
 Telephone: 9495669230
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 341 BAYSIDE DR STE 7
 Mailing City,St,Zip: NEWPORT BEACH, CA 92660
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Other inorganic solid waste
 Disposal Method: H14
 Tons: 0
 Facility County: San Bernardino

11 MICHAEL J. CRIMER HIST UST U001574685
21850 GRAND TERRACE RD N/A
GRAND TERRACE, CA 92324

HIST UST:
 Region: STATE
 Facility ID: 00000043024
 Facility Type: Other
 Other Type: FUND RAISER
 Total Tanks: 0001
 Contact Name: MICHAEL CRINER
 Telephone: 7148252622

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MICHAEL J. CRIMER (Continued)

U001574685

Owner Name: MICHAEL J. CRIMER
 Owner Address: 21850 GRAND TERRANCCE RD.
 Owner City,St,Zip: GRND TERRACE, CA 92324

 Tank Num: 001
 Container Num: 1
 Year Installed: 1973
 Tank Capacity: 00003000
 Tank Used for: PRODUCT
 Type of Fuel: 06
 Tank Construction: Not reported
 Leak Detection: Stock Inventor

11

**BEN REYNOLDS
 21850 GRAND TERRACE RD
 GRAND TERRACE, CA 92324**

**HIST UST U001574641
 N/A**

HIST UST:
 Region: STATE
 Facility ID: 00000043554
 Facility Type: Other
 Other Type: PERSONAL USE
 Total Tanks: 0001
 Contact Name: Not reported
 Telephone: 7147831555
 Owner Name: BEN REYNOLDS
 Owner Address: 21850 GRAND TERRACE RD.
 Owner City,St,Zip: GRAND TERRACE, CA 92324

 Tank Num: 001
 Container Num: 1
 Year Installed: 1973
 Tank Capacity: 00001000
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: Not reported
 Leak Detection: None

12

**FOLLEY DEVELEPMENT CORP
 11993 CANAL ST
 GRAND TERRACE, CA 92313**

**HAZNET S108207027
 N/A**

HAZNET:
 Gepaid: CAC002594419
 Contact: MIKE FOLLEY
 Telephone: 5627084172
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2201 E WILLOW ST STE D179
 Mailing City,St,Zip: SIGNAL HILL, CA 97055
 Gen County: San Bernardino
 TSD EPA ID: AZC950823111
 TSD County: 99
 Waste Category: Asbestos-containing waste
 Disposal Method: Not reported
 Tons: 0.84

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

FOLLEY DEVELOPEMENT CORP (Continued)

S108207027

Facility County: Not reported

**13 GRAND TERRACE ELEMENTARY
 12066 VIVIENDA AVE.
 GRAND TERRACE, CA 92313**

**FINDS 1008292450
 110021915999**

FINDS:

Other Pertinent Environmental Activity Identified at Site

Not reported

NCES (National Center for Education Statistics) is the primary federal entity for collecting and analyzing data related to education in the United States and other nations and the institute of education sciences.

**13 GRAND TERRACE ELEMENTARY
 12066 VIVIENDA
 GRAND TERRACE, CA 92313**

**HAZNET S105722327
 N/A**

HAZNET:

Gepaid: CAL000016202
 Contact: INACTIVE PER V95 FORM HJ
 Telephone: 9098764169
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1212 VALENCIA DRIVE
 Mailing City,St,Zip: COLTON, CA 923240000
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Asbestos-containing waste
 Disposal Method: Disposal, Land Fill
 Tons: 0.84
 Facility County: Not reported

Gepaid: CAL000016202
 Contact: INACTIVE PER V95 FORM HJ
 Telephone: 9098764169
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1212 VALENCIA DRIVE
 Mailing City,St,Zip: COLTON, CA 923240000
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: 0.15
 Facility County: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

14 **ANIMAL EMERGENCY CLINIC INC**
12022 LA CROSSE AVENUE
GRAND TERRACE, CA 92324

HAZNET S103625459
N/A

HAZNET:

Gepaid: CAL921225655
 Contact: DEBORAH RODRIGUEZ
 Telephone: 9098259367
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12022 LA CROSSE AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923134419
 Gen County: San Bernardino
 TSD EPA ID: CAD981429673
 TSD County: Marin
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Recycler
 Tons: 0.25
 Facility County: Not reported

Gepaid: CAL921225655
 Contact: TERRY MCDUFFEE DVM
 Telephone: 9098259367
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12022 LA CROSSE AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923134419
 Gen County: San Bernardino
 TSD EPA ID: CAT000613976
 TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Transfer Station
 Tons: .1251
 Facility County: San Bernardino

Gepaid: CAL921225655
 Contact: DEBORAH RODRIGUEZ
 Telephone: 9098259367
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12022 LA CROSSE AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923134419
 Gen County: San Bernardino
 TSD EPA ID: CAD981429673
 TSD County: Marin
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Recycler
 Tons: 0.12
 Facility County: San Bernardino

Gepaid: CAL921225655
 Contact: SUSAN HAINES
 Telephone: 9098259367
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12022 LA CROSSE AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923134419
 Gen County: San Bernardino
 TSD EPA ID: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

ANIMAL EMERGENCY CLINIC INC (Continued)

S103625459

TSD County: Marin
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Recycler
 Tons: 0.14
 Facility County: Not reported

Gepaid: CAL921225655
 Contact: TERRY MCDUFFEE DVM
 Telephone: 9098259367
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12022 LA CROSSE AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923134419
 Gen County: San Bernardino
 TSD EPA ID: CAT000613976
 TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Transfer Station
 Tons: .0625
 Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access
 10 additional CA_HAZNET: record(s) in the EDR Site Report.

14

**ANIMAL EMERGENCY CLINIC
 12022 LA CROSSE AVE
 GRAND TERRACE, CA 92313**

San Bern. Co. Permit

**S105974274
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0000964
 Owner: ANIMAL EMERGENCY CLINIC
 Permit Number: PT0007897
 Permit Category: SPECIAL HANDLER
 Facility Status: INACTIVE
 Expiration Date: 4/30/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0000964
 Owner: ANIMAL EMERGENCY CLINIC
 Permit Number: PT0007896
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: INACTIVE
 Expiration Date: 4/30/2008 12:00:00AM

15

**RED TERRACE LLC
 22471 BARTON RD
 GRAND TERRACE, CA 92324**

**HAZNET
 EMI**

**1000310021
 N/A**

HAZNET:
 Gepaid: CAD981629603
 Contact: GRAND TERRACE CLEANERS
 Telephone: 7418255641
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22471 BARTON RD

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

RED TERRACE LLC (Continued)

1000310021

Mailing City,St,Zip: GRAND TERRACE, CA 923135008
 Gen County: San Bernardino
 TSD EPA ID: CAT000613927
 TSD County: San Bernardino
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: .2175
 Facility County: San Bernardino

Gepaid: CAD981629603
 Contact: GRAND TERRACE CLEANERS
 Telephone: 7418255641
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22471 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923135008
 Gen County: San Bernardino
 TSD EPA ID: CAT000613927
 TSD County: San Bernardino
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: .2250
 Facility County: San Bernardino

Gepaid: CAC001327088
 Contact: RED TERRACE LLC
 Telephone: 3104510413
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 9454 WILSHIRE BLVD STE 650
 Mailing City,St,Zip: BEVERLY HILLS, CA 902120000
 Gen County: San Bernardino
 TSD EPA ID: AZC950823111
 TSD County: 99
 Waste Category: Asbestos-containing waste
 Disposal Method: Not reported
 Tons: 21.0700
 Facility County: San Bernardino

Gepaid: CAD981629603
 Contact: GRAND TERRACE CLEANERS
 Telephone: 7418255641
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22471 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923135008
 Gen County: San Bernardino
 TSD EPA ID: CAT000613927
 TSD County: San Bernardino
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: .0900
 Facility County: San Bernardino

Gepaid: CAD981629603
 Contact: GRAND TERRACE CLEANERS
 Telephone: 7418255641

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

RED TERRACE LLC (Continued)

1000310021

Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22471 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923135008
 Gen County: San Bernardino
 TSD EPA ID: CAT000613927
 TSD County: San Bernardino
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Not reported
 Tons: .0600
 Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access
 1 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:

Year: 1987
 County Code: 36
 Air Basin: SC
 Facility ID: 36162
 Air District Name: SC
 SIC Code: 7216
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1990
 County Code: 36
 Air Basin: SC
 Facility ID: 36162
 Air District Name: SC
 SIC Code: 7216
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

15 USA CLEANERS
 22499 BARTON RD
 GRAND TERRACE, CA 92324

HAZNET
 DRYCLEANERS
 San Bern. Co. Permit

S104771474
 N/A

HAZNET:

Gepaid: CAL000181518
 Contact: WAN SOO CHUN/OWNER
 Telephone: 9097838828
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22499 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923135008
 Gen County: San Bernardino
 TSD EPA ID: CAT000613893
 TSD County: Los Angeles
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: 0.25
 Facility County: Not reported

Gepaid: CAL000181518
 Contact: WAN SOO CHUN/OWNER
 Telephone: 9097838828
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22499 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923135008
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: 0.08
 Facility County: Not reported

CLEANERS:

EPA Id: CAL000181518
 NAICS Code: 81232
 NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
 SIC Code: 7389
 Create Date: 7/15/1996
 Facility Active: No
 Inactive Date: 6/30/2001
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22499 BARTON RD
 Mailing Address 2: Not reported
 Mailing State: CA
 Mailing Zip: 923135008
 Region Code: 4
 Owner Name: WAN SOO CHUN
 Owner Address: 22499 BARTON RD
 Owner Address 2: Not reported
 Owner Telephone: 9097838828
 Owner Fax Number: Not reported
 Contact Name: WAN SOO CHUN/OWNER
 Contact Address: 22499 BARTON RD
 Contact Address 2: Not reported
 Contact Telephone: 9097838828

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

USA CLEANERS (Continued)

S104771474

SIC Description: 7211 Power Laundries, Family and Commercial
 SIC Description: 7212 Garment Pressing, and Agents for Laundries and Drycleaners
 SIC Description: 7389 Business Services, NEC (apparel pressing service for the trade)
 SIC Description: 7216 Drycleaning Plants, Except Rug Cleaning
 SIC Description: 7219 Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)

EPA Id: CAL000181518
 NAICS Code: 81232
 NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
 SIC Code: 7211
 Create Date: 7/15/1996
 Facility Active: No
 Inactive Date: 6/30/2001
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22499 BARTON RD
 Mailing Address 2: Not reported
 Mailing State: CA
 Mailing Zip: 923135008
 Region Code: 4
 Owner Name: WAN SOO CHUN
 Owner Address: 22499 BARTON RD
 Owner Address 2: Not reported
 Owner Telephone: 9097838828
 Owner Fax Number: Not reported
 Contact Name: WAN SOO CHUN/OWNER
 Contact Address: 22499 BARTON RD
 Contact Address 2: Not reported
 Contact Telephone: 9097838828

SIC Description: 7211 Power Laundries, Family and Commercial
 SIC Description: 7212 Garment Pressing, and Agents for Laundries and Drycleaners
 SIC Description: 7389 Business Services, NEC (apparel pressing service for the trade)
 SIC Description: 7216 Drycleaning Plants, Except Rug Cleaning
 SIC Description: 7219 Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)

EPA Id: CAL000181518
 NAICS Code: 81232
 NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
 SIC Code: 7216
 Create Date: 7/15/1996
 Facility Active: No
 Inactive Date: 6/30/2001
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22499 BARTON RD
 Mailing Address 2: Not reported
 Mailing State: CA
 Mailing Zip: 923135008
 Region Code: 4
 Owner Name: WAN SOO CHUN
 Owner Address: 22499 BARTON RD
 Owner Address 2: Not reported
 Owner Telephone: 9097838828
 Owner Fax Number: Not reported
 Contact Name: WAN SOO CHUN/OWNER

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

USA CLEANERS (Continued)

S104771474

Contact Address: 22499 BARTON RD
 Contact Address 2: Not reported
 Contact Telephone: 9097838828
 SIC Description: 7211 Power Laundries, Family and Commercial
 SIC Description: 7212 Garment Pressing, and Agents for Laundries and Drycleaners
 SIC Description: 7389 Business Services, NEC (apparel pressing service for the trade)
 SIC Description: 7216 Drycleaning Plants, Except Rug Cleaning
 SIC Description: 7219 Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)

EPA Id: CAL000181518
 NAICS Code: 81232
 NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
 SIC Code: 7212
 Create Date: 7/15/1996
 Facility Active: No
 Inactive Date: 6/30/2001
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22499 BARTON RD
 Mailing Address 2: Not reported
 Mailing State: CA
 Mailing Zip: 923135008
 Region Code: 4
 Owner Name: WAN SOO CHUN
 Owner Address: 22499 BARTON RD
 Owner Address 2: Not reported
 Owner Telephone: 9097838828
 Owner Fax Number: Not reported
 Contact Name: WAN SOO CHUN/OWNER
 Contact Address: 22499 BARTON RD
 Contact Address 2: Not reported
 Contact Telephone: 9097838828

SIC Description: 7211 Power Laundries, Family and Commercial
 SIC Description: 7212 Garment Pressing, and Agents for Laundries and Drycleaners
 SIC Description: 7389 Business Services, NEC (apparel pressing service for the trade)
 SIC Description: 7216 Drycleaning Plants, Except Rug Cleaning
 SIC Description: 7219 Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)

EPA Id: CAL000181518
 NAICS Code: 81232
 NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
 SIC Code: 7219
 Create Date: 7/15/1996
 Facility Active: No
 Inactive Date: 6/30/2001
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22499 BARTON RD
 Mailing Address 2: Not reported
 Mailing State: CA
 Mailing Zip: 923135008
 Region Code: 4
 Owner Name: WAN SOO CHUN
 Owner Address: 22499 BARTON RD
 Owner Address 2: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

USA CLEANERS (Continued)

S104771474

Owner Telephone: 9097838828
 Owner Fax Number: Not reported
 Contact Name: WAN SOO CHUN/OWNER
 Contact Address: 22499 BARTON RD
 Contact Address 2: Not reported
 Contact Telephone: 9097838828
 SIC Description: 7211 Power Laundries, Family and Commercial
 SIC Description: 7212 Garment Pressing, and Agents for Laundries and Drycleaners
 SIC Description: 7389 Business Services, NEC (apparel pressing service for the trade)
 SIC Description: 7216 Drycleaning Plants, Except Rug Cleaning
 SIC Description: 7219 Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0006840
 Owner: CHUN, WAN SOO
 Permit Number: PT0006786
 Permit Category: LIMITED QUANTITY GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 10/31/2008 12:00:00AM

15

G & M OIL CO LLC # 105
22483 BARTON RD
GRAND TERRACE, CA 92324

San Bern. Co. Permit S105697577
N/A

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0007155
 Owner: G & M OIL COMPANY, INC.
 Permit Number: PT0013040
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 1/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0007155
 Owner: G & M OIL COMPANY, INC.
 Permit Number: PT0013041
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 1/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0007155
 Owner: G & M OIL COMPANY, INC.
 Permit Number: PT0013042
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 1/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0007155
 Owner: G & M OIL COMPANY, INC.
 Permit Number: PT0015024
 Permit Category: HAZMAT HANDLER - UST ONLY
 Facility Status: ACTIVE

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

G & M OIL CO LLC # 105 (Continued)

S105697577

Expiration Date: 1/31/2009 12:00:00AM

15

**STATION #4238
 22483 BARTON RD
 GRAND TERRACE, CA 92324**

**HIST UST U001574705
 N/A**

HIST UST:

Region: STATE
 Facility ID: 00000043651
 Facility Type: Gas Station
 Other Type: Not reported
 Total Tanks: 0001
 Contact Name: JERRY M. OKEL
 Telephone: 7147831041
 Owner Name: UNION OIL COMPANY OF CALIFORNI
 Owner Address: 1450 FRAZEE ROAD
 Owner City,St,Zip: SAN DIEGO, CA 92108

Tank Num: 001
 Container Num: 4238-00
 Year Installed: 1956
 Tank Capacity: 00000000
 Tank Used for: WASTE
 Type of Fuel: Not reported
 Tank Construction: 6 inches
 Leak Detection: Visual

15

**UNION OIL SERVICE STATION #423
 22483 BARTON RD
 GRAND TERRACE, CA 92324**

**HIST UST U001574710
 N/A**

HIST UST:

Region: STATE
 Facility ID: 00000019970
 Facility Type: Gas Station
 Other Type: Not reported
 Total Tanks: 0003
 Contact Name: JERRY M OKEL
 Telephone: 7147831041
 Owner Name: UNION OIL COMPANY OF CALIFORNI
 Owner Address: 123 CAMINO DELA REINA
 Owner City,St,Zip: SAN DIEGO, CA 92108

Tank Num: 001
 Container Num: 4238-11
 Year Installed: 1982
 Tank Capacity: 00012000
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: Not reported
 Leak Detection: Stock Inventor, 10

Tank Num: 002
 Container Num: 4238-22
 Year Installed: 1982
 Tank Capacity: 00012000

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

UNION OIL SERVICE STATION #423 (Continued)

U001574710

Tank Used for: PRODUCT
 Type of Fuel: PREMIUM
 Tank Construction: Not reported
 Leak Detection: Stock Inventor, 10

Tank Num: 003
 Container Num: 4238-34
 Year Installed: 1956
 Tank Capacity: 00000280
 Tank Used for: WASTE
 Type of Fuel: WASTE OIL
 Tank Construction: Not reported
 Leak Detection: None

15

**G & M OIL CO #105
 22483 BARTON ROAD
 GRAND TERRACE, CA 92313**

**HAZNET S108207441
 N/A**

HAZNET:

Gepaid: CAL000279899
 Contact: JUDY BOWE, COMPLIANCE MGR.
 Telephone: 7143754700
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 16868 A ST
 Mailing City,St,Zip: HUNTINGTON BEACH, CA 92647
 Gen County: San Bernardino
 TSD EPA ID: CAT080013352
 TSD County: Los Angeles
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Recycler
 Tons: 0.22
 Facility County: Not reported

Gepaid: CAL000279899
 Contact: ANDREA MUNOZ, COMPLIANCE MGR
 Telephone: 7143754700
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 16868 A ST
 Mailing City,St,Zip: HUNTINGTON BEACH, CA 92647
 Gen County: San Bernardino
 TSD EPA ID: CAD981696420
 TSD County: Los Angeles
 Waste Category: Aqueous solution with less than 10% total organic residues
 Disposal Method: Transfer Station
 Tons: 0.04
 Facility County: San Bernardino

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

15 UNOCAL #4238
 22483 BARTON RD
 GRAND TERRACE, CA 92324

HAZNET S102440286
 LUST N/A
 Cortese

HAZNET:

Gepaid: CAL000046463
 Contact: UNION OIL COMPANY OF CALIFORNI
 Telephone: 7144286560
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 25376
 Mailing City,St,Zip: SANTA ANA, CA 927995376
 Gen County: San Bernardino
 TSD EPA ID: CAD981161367
 TSD County: Marin
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Not reported
 Tons: .1251
 Facility County: San Bernardino

Gepaid: CAL000046463
 Contact: UNION OIL COMPANY OF CALIFORNI
 Telephone: 7144286560
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 25376
 Mailing City,St,Zip: SANTA ANA, CA 927995376
 Gen County: San Bernardino
 TSD EPA ID: CAD982524613
 TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Not reported
 Tons: .1251
 Facility County: San Bernardino

Gepaid: CAL000046463
 Contact: UNION OIL COMPANY OF CALIFORNI
 Telephone: 7144286560
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 25376
 Mailing City,St,Zip: SANTA ANA, CA 927995376
 Gen County: San Bernardino
 TSD EPA ID: CAD982524613
 TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Not reported
 Tons: .5004
 Facility County: San Bernardino

Gepaid: CAL000046463
 Contact: UNION OIL COMPANY OF CALIFORNI
 Telephone: 7144286560
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 25376
 Mailing City,St,Zip: SANTA ANA, CA 927995376
 Gen County: San Bernardino
 TSD EPA ID: CAD982524613

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UNOCAL #4238 (Continued)

S102440286

TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Not reported
 Tons: .1251
 Facility County: San Bernardino

Gepaid: CAL000046463
 Contact: UNION OIL COMPANY OF CALIFORNI
 Telephone: 7144286560
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 25376
 Mailing City,St,Zip: SANTA ANA, CA 927995376
 Gen County: San Bernardino
 TSD EPA ID: CAT000613976
 TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Transfer Station
 Tons: .0959
 Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access
 1 additional CA_HAZNET: record(s) in the EDR Site Report.

LUST:

Region: STATE
 Global Id: T0607100376
 Latitude: 34.0337542
 Longitude: -117.3139416
 Case Type: LUST Cleanup Site
 Status: Completed - Case Closed
 Status Date: 1996-06-21 00:00:00
 Lead Agency: SAN BERNARDINO COUNTY LOP
 Case Worker: Not reported
 Local Agency: SAN BERNARDINO COUNTY LOP
 RB Case Number: 083602645T
 LOC Case Number: 95062
 File Location: Local Agency
 Potential Media Affect: Soil
 Potential Contaminats of Concern: Gasoline
 Site History: Not reported

LUST REG 8:

Region: 8
 County: San Bernardino
 Regional Board: Santa Ana Region
 Facility Status: Case Closed
 Case Number: 083602645T
 Local Case Num: 95062
 Case Type: Soil only
 Substance: Gasoline
 Qty Leaked: Not reported
 Abate Method: Not reported
 Cross Street: MOUNT VERNON
 Enf Type: CLOS
 Funding: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UNOCAL #4238 (Continued)

S102440286

How Discovered: Other Means
 How Stopped: Not reported
 Leak Cause: Overfill
 Leak Source: Piping
 Global ID: T0607100376
 How Stopped Date: Not reported
 Enter Date: 4/20/1995
 Review Date: 11/14/1995
 Prelim Assess: 7/26/1995
 Discover Date: 5/20/1992
 Enforcement Date: Not reported
 Close Date: 6/21/1996
 Workplan: Not reported
 Pollution Char: 5/14/1996
 Remed Plan: Not reported
 Remed Action: Not reported
 Monitoring: Not reported
 Enter Date: 4/20/1995
 GW Qualifies: Not reported
 Soil Qualifies: Not reported
 Operator: Not reported
 Facility Contact: Not reported
 Interim: Not reported
 Oversight Program: LUST
 Latitude: 34.0337542
 Longitude: -117.3139416
 MTBE Date: Not reported
 Max MTBE GW: Not reported
 MTBE Concentration: 0
 Max MTBE Soil: Not reported
 MTBE Fuel: 1
 MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
 MTBE Class: *
 Staff: NOM
 Staff Initials: JC3
 Lead Agency: Local Agency
 Local Agency: 36000L
 Hydr Basin #: UPPER SANTA ANA VALL
 Beneficial: Not reported
 Priority: Not reported
 Cleanup Fund Id: Not reported
 Work Suspended: Not reported
 Summary: DISCOVERED=PREVENTIVE MEASURE; CAUSE=VALVE FAILURE; CLOSURE SUMMARY 6/7/96

15

**UNOCAL 76 STN #4238
 22483 BARTON RD
 GRAND TERRACE, CA 92324**

**CA FID UST S101591389
 SWEEPS UST N/A**

CA FID UST:
 Facility ID: 36006097
 Regulated By: UTNKA
 Regulated ID: 00019970
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: Not reported
 Mail To: Not reported
 Mailing Address: PO BOX 7600
 Mailing Address 2: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

UNOCAL 76 STN #4238 (Continued)

S101591389

Mailing City,St,Zip: GRAND TERRACE 92324
 Contact: Not reported
 Contact Phone: Not reported
 DUNs Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

SWEEPS UST:

Status: A
 Comp Number: 19970
 Number: 9
 Board Of Equalization: 44-001057
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 4238-11
 Swrcb Tank Id: 36-000-019970-000001
 Actv Date: 07-01-85
 Capacity: 12000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: 3

Status: A
 Comp Number: 19970
 Number: 9
 Board Of Equalization: 44-001057
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 4238-22
 Swrcb Tank Id: 36-000-019970-000002
 Actv Date: 07-01-85
 Capacity: 12000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: A
 Comp Number: 19970
 Number: 9
 Board Of Equalization: 44-001057
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 4238-34
 Swrcb Tank Id: 36-000-019970-000003
 Actv Date: 07-01-85
 Capacity: 280
 Tank Use: OIL

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

UNOCAL 76 STN #4238 (Continued)

S101591389

Stg: W
 Content: WASTE OIL
 Number Of Tanks: Not reported

15

**CVS PHARMACY #8825
 12071 MOUNT VERNON AVE
 GRAND TERRACE, CA 92313**

San Bern. Co. Permit

**S107863411
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0010440
 Owner: CVS CORPORATION
 Permit Number: PT0017801
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 8/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0010440
 Owner: CVS CORPORATION
 Permit Number: PT0017800
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 8/31/2008 12:00:00AM

15

**CVS PHARMACY NO 8825
 12071 MOUNT VERNON AVE
 GRAND TERRACE, CA 92313**

HAZNET

**S108745956
 N/A**

HAZNET:
 Gepaid: CAR000172734
 Contact: JUDITH E AUSMUS
 Telephone: 9182240440
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 4020 STIRRUP CREEK DR STE 100
 Mailing City,St,Zip: DURHAM, NC 277038998
 Gen County: San Bernardino
 TSD EPA ID: CAD008364432
 TSD County: Los Angeles
 Waste Category: Alkaline solution without metals (pH > 12.5)
 Disposal Method: Transfer Station
 Tons: 0.01
 Facility County: San Bernardino

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

16	BANK OF THE WEST 2279 LACROSSE COLTON, CA 92324	HAZNET	S103643611 N/A
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HAZNET:

Gepaid: CAC000980584

Contact: BANK OF THE WEST

Telephone: 0000000000

Facility Addr2: Not reported

Mailing Name: Not reported

Mailing Address: 818 N. MOUNTAIN AVE. STE. 116

Mailing City, St, Zip: UPLAND, CA 917860000

Gen County: San Bernardino

TSD EPA ID: CAD000088252

TSD County: Los Angeles

Waste Category: Unspecified oil-containing waste

Disposal Method: Transfer Station

Tons: .0750

Facility County: San Bernardino

17	GRAND TERRACE 22471 BARTOW RD GRAND TERRACE, CA 92324	FINDS	1000310020 RCRA-NonGen CAD981615362
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FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRA-NonGen:

Date form received by agency: 01/23/1987

Facility name: GRAND TERRACE

Facility address: 22471 BARTOW RD
GRAND TERRACE, CA 92324

EPA ID: CAD981615362

Mailing address: BARTOW RD
GRAND TERRACE, CA 92324

Contact: ENVIRONMENTAL MANAGER

Contact address: 22471 BARTOW RD
GRAND TERRACE, CA 92324

Contact country: US

Contact telephone: (415) 555-1212

Contact email: Not reported

EPA Region: 09

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: WILLIAM SCHMECHEL

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

Owner/operator country: Not reported

Owner/operator telephone: (415) 555-1212

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GRAND TERRACE (Continued)

1000310020

Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: Not reported
 Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
 Owner/operator address: NOT REQUIRED
 NOT REQUIRED, ME 99999

Owner/operator country: Not reported
 Owner/operator telephone: (415) 555-1212

Legal status: Private
 Owner/Operator Type: Operator
 Owner/Op start date: Not reported
 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown
 Mixed waste (haz. and radioactive): Unknown
 Recycler of hazardous waste: No
 Transporter of hazardous waste: No
 Treater, storer or disposer of HW: No
 Underground injection activity: No
 On-site burner exemption: Unknown
 Furnace exemption: Unknown
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No
 Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

18

CITY OF GRAND TERRACE - REDEVELOPMENT AGENCY
22293 BARTON RD
GRAND TERRACE, CA 92313

HAZNET S108744725
N/A

HAZNET:

Gepaid: CAC002603993
 Contact: ALISA FLANN
 Telephone: 9098253825
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22795 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 92313
 Gen County: San Bernardino
 TSD EPA ID: AZC950823111
 TSD County: 99
 Waste Category: Asbestos-containing waste
 Disposal Method: Not reported
 Tons: 0.84
 Facility County: San Bernardino

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

18 **SUPER CLEANERS**
22310 BARTON RD F
GRAND TERRACE, CA 92313

San Bern. Co. Permit S104905457
N/A

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0006529
 Owner: HURTADO, MARCIANO
 Permit Number: PT0000224
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 1/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006529
 Owner: HURTADO, MARCIANO
 Permit Number: PT0000223
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 1/31/2009 12:00:00AM

18 **BILL DARWIN**
22324 BARTON RD
GRAND TERRACE, CA 92324

CA FID UST S101591125
SWEEPS UST N/A

CA FID UST:

Facility ID: 36001674
 Regulated By: UTKNI
 Regulated ID: Not reported
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 7147832245
 Mail To: Not reported
 Mailing Address: 22324 BARTON RD
 Mailing Address 2: Not reported
 Mailing City,St,Zip: GRAND TERRACE 92324
 Contact: Not reported
 Contact Phone: Not reported
 DUNS Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Inactive

SWEEPS UST:

Status: Not reported
 Comp Number: 3
 Number: Not reported
 Board Of Equalization: Not reported
 Ref Date: Not reported
 Act Date: Not reported
 Created Date: Not reported
 Tank Status: Not reported
 Owner Tank Id: Not reported
 Swrcb Tank Id: 36-000-000003-000001
 Actv Date: Not reported
 Capacity: 500
 Tank Use: M.V. FUEL
 Stg: PRODUCT

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)Site		Database(s)	EPA ID Number

BILL DARWIN (Continued)

S101591125

Content: REG UNLEADED
 Number Of Tanks: 1

18

**SUPER CLEANERS
 22310 BARTON RD
 GRAND TERRACE, CA 92313**

**RCRA-SQG 1000598246
 FINDS CAD983622945
 HAZNET**

RCRA-SQG:

Date form received by agency: 05/09/2000
 Facility name: SUPER CLEANERS
 Facility address: 22310 BARTON RD
 GRAND TERRACE, CA 92313
 EPA ID: CAD983622945
 Contact: AMANDA SOSA
 Contact address: 22310 BARTON RD
 GRAND TERRACE, CA 92313
 Contact country: US
 Contact telephone: (909) 825-8110
 Contact email: Not reported
 EPA Region: 09
 Classification: Small Small Quantity Generator
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: AMANDA SOSA
 Owner/operator address: 22310 BARTON RD
 GRAND TERRACE, CA 92313
 Owner/operator country: Not reported
 Owner/operator telephone: (909) 821-8110
 Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: Not reported
 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown
 Mixed waste (haz. and radioactive): Unknown
 Recycler of hazardous waste: No
 Transporter of hazardous waste: No
 Treater, storer or disposer of HW: No
 Underground injection activity: No
 On-site burner exemption: Unknown
 Furnace exemption: Unknown
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No
 Off-site waste receiver: Commercial status unknown

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SUPER CLEANERS (Continued)

1000598246

Hazardous Waste Summary:

Waste code: F002
 Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Gepaid: CAD983622945
 Contact: --
 Telephone: --
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22310 BARTON RD STE F
 Mailing City,St,Zip: GRAND TERRACE, CA 923135039
 Gen County: San Bernardino
 TSD EPA ID: NVR000076158
 TSD County: 99
 Waste Category: Not reported
 Disposal Method: Not reported
 Tons: Not reported
 Facility County: Not reported

Gepaid: CAD983622945
 Contact: --
 Telephone: --
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22310 BARTON RD STE F
 Mailing City,St,Zip: GRAND TERRACE, CA 923135039
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
 Disposal Method: Not reported
 Tons: Not reported
 Facility County: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SUPER CLEANERS (Continued)

1000598246

Gepaid: CAD983622945
 Contact: --
 Telephone: --
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22310 BARTON RD STE F
 Mailing City,St,Zip: GRAND TERRACE, CA 923135039
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
 Disposal Method: Transfer Station
 Tons: 0.05
 Facility County: Not reported

Gepaid: CAD983622945
 Contact: --
 Telephone: --
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22310 BARTON RD STE F
 Mailing City,St,Zip: GRAND TERRACE, CA 923135039
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Unspecified organic liquid mixture
 Disposal Method: Not reported
 Tons: Not reported
 Facility County: Not reported

Gepaid: CAD983622945
 Contact: FRANK WIENERE
 Telephone: 7147834589
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22310 BARTON RD STE F
 Mailing City,St,Zip: GRAND TERRACE, CA 923135039
 Gen County: San Bernardino
 TSD EPA ID: CAD981397417
 TSD County: Los Angeles
 Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
 Disposal Method: Recycler
 Tons: .1167
 Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access 1 additional CA_HAZNET: record(s) in the EDR Site Report.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s)
 EPA ID Number

19 **22000 BARTON RD.
 22000 BARTON RD.
 GRAND TERRACE, CA 92324**

ERNS 90181496
 N/A

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

20 **HOUSTON & HARRIS PCS INC
 21831 BARTON RD
 GRAND TERRACE, CA 92313**

San Bern. Co. Permit S108087285
 N/A

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0010441
 Owner: HOUSTON PAMELA
 Permit Number: PT0017808
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: INACTIVE
 Expiration Date: 8/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0010441
 Owner: HOUSTON PAMELA
 Permit Number: PT0017807
 Permit Category: SPECIAL HANDLER
 Facility Status: INACTIVE
 Expiration Date: 8/31/2008 12:00:00AM

20 **J & L EQUIPMENT AND SERVICE
 21825 BARTON RD
 GRAND TERRACE, CA 92313**

San Bern. Co. Permit S109254429
 N/A

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0011825
 Owner: HOUSTON, JESSE
 Permit Number: PT0020600
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 10/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0011825
 Owner: HOUSTON, JESSE
 Permit Number: PT0020599
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 10/31/2008 12:00:00AM

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

21	CB TYRES RECYCLING RESOURCES, LLC 21801 BARTON ROAD, UNIT D GRAND TERRACE, CA 92313	HAULERS	S108487067 N/A
-----------	--	----------------	---------------------------------

HAULERS:

Facility ID:	1000418
Facility Phone:	(909) 370-3700
Other:	Other: Anthony Tejada
Registration Expires:	12/31/2008
Hauls for Public:	Yes
Number of Vehicles:	5

21	RUBEN LUNA 21801 BARTON RD GRAND TERRACE, CA 92324	HIST UST SWEEPS UST	U001574672 N/A
-----------	---	--------------------------------------	---------------------------------

HIST UST:

Region:	STATE
Facility ID:	00000059915
Facility Type:	Other
Other Type:	HOME
Total Tanks:	0001
Contact Name:	Not reported
Telephone:	2138061151
Owner Name:	GEORGE F. & ETHEL CASEY TRUST
Owner Address:	8034 MAXINE STREET
Owner City,St,Zip:	PICO RIVERA, CA 90660

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	Not reported
Leak Detection:	None

SWEEPS UST:

Status:	A
Comp Number:	605
Number:	2
Board Of Equalization:	Not reported
Ref Date:	03-23-92
Act Date:	03-23-92
Created Date:	09-05-89
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	Not reported
Actv Date:	Not reported
Capacity:	Not reported
Tank Use:	Not reported
Stg:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	605
Number:	Not reported
Board Of Equalization:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

RUBEN LUNA (Continued)

U001574672

Ref Date: Not reported
 Act Date: Not reported
 Created Date: Not reported
 Tank Status: Not reported
 Owner Tank Id: Not reported
 Swrcb Tank Id: 36-000-000605-000001
 Actv Date: Not reported
 Capacity: 1
 Tank Use: M.V. FUEL
 Stg: PRODUCT
 Content: REG UNLEADED
 Number Of Tanks: 1

21

CASEY, GEORGE/ETHYL TRUST
21801 BARTON RD
COLTON, CA 92324

SWEEPS UST

S106924073
N/A

SWEEPS UST:

Status: Not reported
 Comp Number: 14380
 Number: Not reported
 Board Of Equalization: Not reported
 Ref Date: Not reported
 Act Date: Not reported
 Created Date: Not reported
 Tank Status: Not reported
 Owner Tank Id: Not reported
 Swrcb Tank Id: 36-000-014380-000001
 Actv Date: Not reported
 Capacity: 1000
 Tank Use: M.V. FUEL
 Stg: PRODUCT
 Content: LEADED
 Number Of Tanks: 1

21

A & E CHARTER
21801 BARTON RD
GRAND TERRACE, CA 92313

San Bern. Co. Permit

S108536393
N/A

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0010883
 Owner: MIKE HARVICK
 Permit Number: PT0018732
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 4/30/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0010883
 Owner: MIKE HARVICK
 Permit Number: PT0018731
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 4/30/2009 12:00:00AM

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s)
 EPA ID Number

21 **ACCENT PRINT & DESIGN** **HAZNET** **S106091141**
21800 BARTON ROAD **N/A**
GRAND TERRACE, CA 92324

HAZNET:
 Gepaid: CAL000141149
 Contact: JAMES MEINGIES
 Telephone: 9098248224
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21800 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923134438
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Santa Clara
 Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
 Disposal Method: Not reported
 Tons: 0.02
 Facility County: Not reported

21 **ACCENT PRINT, INC.** **HAZNET** **S102823415**
21800 BARTON RD. **N/A**
GRAND TERRACE, CA 92313

HAZNET:
 Gepaid: CAL000141170
 Contact: Not reported
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21800 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923134438
 Gen County: San Bernardino
 TSD EPA ID: CAD070148432
 TSD County: 1
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Transfer Station
 Tons: .0225
 Facility County: San Bernardino

Gepaid: CAL000141170
 Contact: Not reported
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21800 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923134438
 Gen County: San Bernardino
 TSD EPA ID: CAT000613976
 TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Transfer Station
 Tons: .8131
 Facility County: San Bernardino

Gepaid: CAL000141170
 Contact: Not reported
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

ACCENT PRINT, INC. (Continued)

S102823415

Mailing Address: 21800 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923134438
 Gen County: San Bernardino
 TSD EPA ID: CAT000613976
 TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Transfer Station
 Tons: .3753
 Facility County: San Bernardino

Gepaid: CAL000141170
 Contact: Not reported
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21800 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923134438
 Gen County: San Bernardino
 TSD EPA ID: CAT000613976
 TSD County: Orange
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Transfer Station
 Tons: 0.417
 Facility County: San Bernardino

Gepaid: CAL000141170
 Contact: Not reported
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21800 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923134438
 Gen County: San Bernardino
 TSD EPA ID: CAT000613950
 TSD County: Sacramento
 Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
 Disposal Method: Transfer Station
 Tons: .0560
 Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access 2 additional CA_HAZNET: record(s) in the EDR Site Report.

21

MC MINN EQUIP RENTAL & LEASING
21801 E BARTON RD
GRAND TERRACE, CA 92313

San Bern. Co. Permit S106911441
N/A

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0009802
 Owner: MC MINN, JIM
 Permit Number: PT0016649
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 5/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0009802

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MC MINN EQUIP RENTAL & LEASING (Continued)

S106911441

Owner: MC MINN, JIM
 Permit Number: PT0016650
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 5/31/2009 12:00:00AM

22

**CLINICAL LAB OF SAN BERNARDINO
 21881 BARTON RD
 GRAND TERRACE, CA 92313**

**HAZNET S100858931
 N/A**

HAZNET:

Gepaid: CAL000110674
 Contact: CLSB INC/MEHDI SIAMI
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 329
 Mailing City,St,Zip: SAN BERNARDINO, CA 924020329
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Laboratory waste chemicals
 Disposal Method: Transfer Station
 Tons: .2501
 Facility County: San Bernardino

Gepaid: CAL000110674
 Contact: CLSB INC/MEHDI SIAMI
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 329
 Mailing City,St,Zip: SAN BERNARDINO, CA 924020329
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Liquids with pH <UN-> 2
 Disposal Method: Transfer Station
 Tons: .2085
 Facility County: San Bernardino

Gepaid: CAL000110674
 Contact: CLSB INC/MEHDI SIAMI
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 329
 Mailing City,St,Zip: SAN BERNARDINO, CA 924020329
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Off-specification, aged, or surplus organics
 Disposal Method: Transfer Station
 Tons: .1250
 Facility County: San Bernardino

Gepaid: CAL000110674
 Contact: CLSB INC/MEHDI SIAMI

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CLINICAL LAB OF SAN BERNARDINO (Continued)

S100858931

Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 329
 Mailing City,St,Zip: SAN BERNARDINO, CA 924020329
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Off-specification, aged, or surplus inorganics
 Disposal Method: Transfer Station
 Tons: .0375
 Facility County: San Bernardino

Gepaid: CAL000110674
 Contact: RICHARD KELSO
 Telephone: 9098257693
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 329
 Mailing City,St,Zip: SAN BERNARDINO, CA 92402
 Gen County: San Bernardino
 TSD EPA ID: CAD097030993
 TSD County: Los Angeles
 Waste Category: Alkaline solution without metals (pH > 12.5)
 Disposal Method: Disposal, Other
 Tons: 0.06
 Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access
 27 additional CA_HAZNET: record(s) in the EDR Site Report.

22

**CLINICAL LAB OF SAN BDNO
 21881 BARTON RD
 GRAND TERRACE, CA 92313**

San Bern. Co. Permit

**S104765295
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0002235
 Owner: CLINICAL LAB/SAN BDNO INC
 Permit Number: PT0006766
 Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES (W/GEN PRMT)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0002235
 Owner: CLINICAL LAB/SAN BDNO INC
 Permit Number: PT0006765
 Permit Category: GENERATOR - 11-25 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

22 A1 CLEANERS
21900 BARTON RD., #130
GRAND TERRACE, CA 92313

HAZNET S103948379
N/A

HAZNET:

Gepaid: CAL000174056
 Contact: FRANK WISSA
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21900 BARTON RD STE 130
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: CAT000613927
 TSD County: San Bernardino
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: .2850
 Facility County: San Bernardino

Gepaid: CAL000174056
 Contact: FRANK WISSA
 Telephone: 9094221376
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21900 BARTON RD STE 130
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Aqueous solution with less than 10% total organic residues
 Disposal Method: Not reported
 Tons: 0
 Facility County: Not reported

Gepaid: CAL000174056
 Contact: FRANK WISSA
 Telephone: 9094221376
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21900 BARTON RD STE 130
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
 Disposal Method: Not reported
 Tons: 0
 Facility County: Not reported

Gepaid: CAL000174056
 Contact: FRANK WISSA
 Telephone: 9094221376
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21900 BARTON RD STE 130
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

A1 CLEANERS (Continued)

S103948379

TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
 Disposal Method: Recycler
 Tons: 0.11
 Facility County: Not reported

Gepaid: CAL000174056
 Contact: FRANK WISSA
 Telephone: 9094221376
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21900 BARTON RD STE 130
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: Los Angeles
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: 0.15
 Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access 8 additional CA_HAZNET: record(s) in the EDR Site Report.

22

A-1 CLEANER
21900 BARTON RD
GRAND TERRACE, CA 92313

San Bern. Co. Permit S104763144
N/A

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0000094
 Owner: WISSA, FRANK
 Permit Number: PT0008065
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: INACTIVE
 Expiration Date: 8/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0000094
 Owner: WISSA, FRANK
 Permit Number: PT0008066
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 8/31/2009 12:00:00AM

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

23 **STATER BROS MARKETS #055**
22441 BARTON RD
GRAND TERRACE, CA 92313

SWRCY S107136917
San Bern. Co. Permit N/A

SWRCY:
 Certification Status: O
 Facility Phone Number: Not reported
 Date facility became certified: 5/15/2003
 Date facility began operating: 6/17/2003
 Date facility ceased operating: Still operating
 Whether The Facility Is Grandfathered: Not reported
 Convenience Zone Where Facility Located: 1862
 Convenience Zone Where Facility Located 2: Not Accepted
 Convenience Zone Where Facility Located 3: Not Accepted
 Convenience Zone Where Facility Located 4: Not Accepted
 Convenience Zone Where Facility Located 5: Not Accepted
 Convenience Zone Where Facility Located 6: Not Accepted
 Convenience Zone Where Facility Located 7: Not Accepted
 Aluminum Beverage Containers Redeemed: AL
 Glass Beverage Containers Redeemed: GL
 Plastic Beverage Containers Redeemed: PL
 Other mat beverage containers redeemed: Not reported
 Refillable Beverage Containers Redeemed: Not reported

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0011487
 Owner: STATER BROS. MARKETS
 Permit Number: PT0019890
 Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 4/30/2008 12:00:00AM

24 **21700 BARTON RD.**
COLTON, CA

CHMIRS S105883896
N/A

CHMIRS:
 OES Incident Number: 02-2306
 OES notification: 4/27/200206:46:04 PM
 OES Date: Not reported
 OES Time: Not reported
 Incident Date: Not reported
Date Completed: Not reported
 Property Use: Not reported
 Agency Id Number: Not reported
 Agency Incident Number: Not reported
 Time Notified: Not reported
 Time Completed: Not reported
 Surrounding Area: Not reported
 Estimated Temperature: Not reported
 Property Management: Not reported
 Special Studies 1: Not reported
 Special Studies 2: Not reported
 Special Studies 3: Not reported
 Special Studies 4: Not reported
 Special Studies 5: Not reported
 Special Studies 6: Not reported
 More Than Two Substances Involved?: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

(Continued)

S105883896

Resp Agency Personnel # Of Decontaminated: Not reported
 Responding Agency Personnel # Of Injuries: Not reported
 Responding Agency Personnel # Of Fatalities: Not reported
 Others Number Of Decontaminated: Not reported
 Others Number Of Injuries: Not reported
 Others Number Of Fatalities: Not reported
 Vehicle Make/year: Not reported
 Vehicle License Number: Not reported
 Vehicle State: Not reported
 Vehicle Id Number: Not reported
 CA/DOT/PUC/ICC Number: Not reported
 Company Name: Not reported
 Reporting Officer Name/ID: Not reported
 Report Date: Not reported
 Comments: Not reported
 Facility Telephone: Not reported
 Waterway Involved: No
 Waterway: Not reported
 Spill Site: Not reported
 Cleanup By: Reporting Party
 Containment: Not reported
 What Happened: Not reported
 Type: Not reported
 Measure: Not reported
 Other: Not reported
 Date/Time: Not reported
 Year: 2002
 Agency: San Bernardino CO FD
 Incident Date: 4/27/2002 12:00:00 AM
 Admin Agency: San Bernardino County Health Department
 Amount: Not reported
 Contained: Yes
 Site Type: Road
 E Date: Not reported
 Substance: Diesel
 Quantity Released: Not reported
 BBLS: 0
 Cups: 0
 CUFT: 0
 Gallons: 25
 Grams: 0
 Pounds: 0
 Liters: 0
 Ounces: 0
 Pints: 0
 Quarts: 0
 Sheen: 0
 Tons: 0
 Unknown: 0
 Description: Not reported
 Evacuations: 0
 Number of Injuries: 0
 Number of Fatalities: 0
 Description: Tractor trailer had a damaged fuel tank causing a release in the delivery area.

MAP FINDINGS

Map ID Direction EDR ID Number
 Distance Database(s) EPA ID Number
 Distance (ft.)Site

24 STATER BROS RCRA-SQG 1000401484
 21700 BARTON RD FINDS CAD982002701
 COLTON, CA 92324 HAZNET
 LUST
 Cortese
 HIST UST
 San Bern. Co. Permit
 CA WDS
 SWEEPS UST

RCRA-SQG:

Date form received by agency: 06/01/1987
 Facility name: STATER BROS
 Facility address: 21700 BARTON RD
 COLTON, CA 92324
 EPA ID: CAD982002701
 Mailing address: BARTON RD
 COLTON, CA 92324
 Contact: ENVIRONMENTAL MANAGER
 Contact address: 21700 BARTON RD
 COLTON, CA 92324
 Contact country: US
 Contact telephone: (714) 783-5131
 Contact email: Not reported
 EPA Region: 09
 Classification: Small Small Quantity Generator
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: STATER BROS
 Owner/operator address: NOT REQUIRED
 NOT REQUIRED, ME 99999
 Owner/operator country: Not reported
 Owner/operator telephone: (415) 555-1212
 Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: Not reported
 Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
 Owner/operator address: NOT REQUIRED
 NOT REQUIRED, ME 99999

Owner/operator country: Not reported
 Owner/operator telephone: (415) 555-1212
 Legal status: Private
 Owner/Operator Type: Operator
 Owner/Op start date: Not reported
 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown
 Mixed waste (haz. and radioactive): Unknown
 Recycler of hazardous waste: No
 Transporter of hazardous waste: No

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

STATER BROS (Continued)

1000401484

Treater, storer or disposer of HW: No
 Underground injection activity: No
 On-site burner exemption: Unknown
 Furnace exemption: Unknown
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No
 Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Gepaid: CAD982002701
 Contact: CORPORATION
 Telephone: 9097835000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 150
 Mailing City,St,Zip: COLTON, CA 923240150
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Unspecified aqueous solution
 Disposal Method: Transfer Station
 Tons: .2293
 Facility County: San Bernardino

Gepaid: CAD982002701
 Contact: CORPORATION
 Telephone: 9097835000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 150
 Mailing City,St,Zip: COLTON, CA 923240150
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Aqueous solution with less than 10% total organic residues
 Disposal Method: Transfer Station
 Tons: .2209

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

STATER BROS (Continued)

1000401484

Facility County: San Bernardino
 Gepaid: CAD982002701
 Contact: CORPORATION
 Telephone: 9097835000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 150
 Mailing City,St,Zip: COLTON, CA 923240150
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Unspecified organic liquid mixture
 Disposal Method: Transfer Station
 Tons: .0333
 Facility County: San Bernardino

Gepaid: CAD982002701
 Contact: CORPORATION
 Telephone: 9097835000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 150
 Mailing City,St,Zip: COLTON, CA 923240150
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Unspecified aqueous solution
 Disposal Method: Treatment, Tank
 Tons: .0625
 Facility County: San Bernardino

Gepaid: CAD982002701
 Contact: CORPORATION
 Telephone: 9097835000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: PO BOX 150
 Mailing City,St,Zip: COLTON, CA 923240150
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: .0300
 Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access 136 additional CA_HAZNET: record(s) in the EDR Site Report.

LUST:

Region: STATE
 Global Id: T0607100500
 Latitude: 34.033888
 Longitude: -117.3319823
 Case Type: LUST Cleanup Site
 Status: Completed - Case Closed

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

STATER BROS (Continued)

1000401484

Status Date: 1999-03-15 00:00:00
 Lead Agency: SAN BERNARDINO COUNTY LOP
 Case Worker: Not reported
 Local Agency: SAN BERNARDINO COUNTY LOP
 RB Case Number: 083603249T
 LOC Case Number: 98048
 File Location: Local Agency
 Potential Media Affect: Soil
 Potential Contaminats of Concern: Gasoline
 Site History: Not reported

LUST REG 8:

Region: 8
 County: San Bernardino
 Regional Board: Santa Ana Region
 Facility Status: Case Closed
 Case Number: 083603249T
 Local Case Num: 98048
 Case Type: Soil only
 Substance: Gasoline
 Qty Leaked: Not reported
 Abate Method: Not reported
 Cross Street: LA CADENA
 Enf Type: CLOS
 Funding: Not reported
 How Discovered: Not reported
 How Stopped: Not reported
 Leak Cause: Not reported
 Leak Source: Not reported
 Global ID: T0607100500
 How Stopped Date: Not reported
 Enter Date: 9/30/1998
 Review Date: Not reported
 Prelim Assess: Not reported
 Discover Date: 6/10/1998
 Enforcement Date: Not reported
 Close Date: 3/15/1999
 Workplan: Not reported
 Pollution Char: Not reported
 Remed Plan: Not reported
 Remed Action: Not reported
 Monitoring: Not reported
 Enter Date: 9/30/1998
 GW Qualifies: Not reported
 Soil Qualifies: Not reported
 Operator: Not reported
 Facility Contact: Not reported
 Interim: Not reported
 Oversight Program: LUST
 Latitude: 34.033888
 Longitude: -117.3319823
 MTBE Date: Not reported
 Max MTBE GW: Not reported
 MTBE Concentration: 0
 Max MTBE Soil: Not reported
 MTBE Fuel: 1
 MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

STATER BROS (Continued)

1000401484

MTBE Class: *
 Staff: NOM
 Staff Initials: LH6
 Lead Agency: Local Agency
 Local Agency: 36000L
 Hydr Basin #: UPPER SANTA ANA VALL
 Beneficial: Not reported
 Priority: Not reported
 Cleanup Fund Id: Not reported
 Work Suspended: Not reported
 Summary: Not reported

Cortese:

Region: CORTESE
 Facility Addr2: Not reported

Region: CORTESE
 Facility Addr2: 21700 BARTON RD

HIST UST:

Region: STATE
 Facility ID: 00000017722
 Facility Type: Other
 Other Type: DISTRIBUTION CENTER
 Total Tanks: 0013
 Contact Name: OLIVER J. GREGOR
 Telephone: 7147835000
 Owner Name: STATER BROS. MARKETS
 Owner Address: 21700 BARTON ROAD
 Owner City,St,Zip: COLTON, CA 92324

Tank Num: 001
 Container Num: 1
 Year Installed: 1961
 Tank Capacity: 00007500
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 002
 Container Num: 2
 Year Installed: 1961
 Tank Capacity: 00007500
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 003
 Container Num: 3
 Year Installed: 1978
 Tank Capacity: 00008000
 Tank Used for: PRODUCT
 Type of Fuel: DIESEL
 Tank Construction: 1/4 inches

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

STATER BROS (Continued)

1000401484

Leak Detection: Stock Inventor

Tank Num: 004
 Container Num: 4
 Year Installed: 1978
 Tank Capacity: 00008000
 Tank Used for: PRODUCT
 Type of Fuel: DIESEL
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 005
 Container Num: 5
 Year Installed: 1978
 Tank Capacity: 00008000
 Tank Used for: PRODUCT
 Type of Fuel: DIESEL
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 006
 Container Num: 6
 Year Installed: 1978
 Tank Capacity: 00008000
 Tank Used for: PRODUCT
 Type of Fuel: DIESEL
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 007
 Container Num: 7
 Year Installed: 1978
 Tank Capacity: 00006000
 Tank Used for: WASTE
 Type of Fuel: WASTE OIL
 Tank Construction: 1/4 inches
 Leak Detection: Visual

Tank Num: 008
 Container Num: 11
 Year Installed: 1961
 Tank Capacity: 00000150
 Tank Used for: PRODUCT
 Type of Fuel: Not reported
 Tank Construction: Not reported
 Leak Detection: Stock Inventor

Tank Num: 009
 Container Num: 12
 Year Installed: 1961
 Tank Capacity: 00000150
 Tank Used for: PRODUCT
 Type of Fuel: Not reported
 Tank Construction: Not reported
 Leak Detection: Stock Inventor

Tank Num: 010

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

STATER BROS (Continued)

1000401484

Container Num: 13
 Year Installed: 1978
 Tank Capacity: 00000300
 Tank Used for: PRODUCT
 Type of Fuel: Not reported
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 011
 Container Num: 14
 Year Installed: 1978
 Tank Capacity: 00000300
 Tank Used for: PRODUCT
 Type of Fuel: Not reported
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 012
 Container Num: 15
 Year Installed: 1978
 Tank Capacity: 00000300
 Tank Used for: PRODUCT
 Type of Fuel: Not reported
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 013
 Container Num: 16
 Year Installed: 1978
 Tank Capacity: 00000300
 Tank Used for: PRODUCT
 Type of Fuel: Not reported
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0006449
 Owner: STATER BROS. MARKETS
 Permit Number: PT0002359
 Permit Category: HAZMAT HANDLER 26-50 EMPLOYEES (W/GEN PRMT)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006449
 Owner: STATER BROS. MARKETS
 Permit Number: PT0002360
 Permit Category: GENERATOR - 26-50 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

CA WDS:

Facility ID: Santa Ana River 36I004384
 Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

STATER BROS (Continued)

1000401484

processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 8

Facility Telephone: 9097835287

Facility Contact: PHILLIP J SMITH

Agency Name: STATER BROS MARKETS

Agency Address: PO Box 150

Agency City,St,Zip: Colton 923240150

Agency Contact: SCOTT LIMBACHER

Agency Telephone: 9097835277

Agency Type: Private

SIC Code: 0

SIC Code 2: Not reported

Primary Waste: Not reported

Primary Waste Type: Not reported

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Design Flow: 0

Baseline Flow: 0

Reclamation: Not reported

POTW: Not reported

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

SWEEPS UST:

Status: A

Comp Number: 17722

Number: 1

Board Of Equalization: 44-020656

Ref Date: 03-24-92

Act Date: 03-24-92

Created Date: 02-29-88

Tank Status: A

Owner Tank Id: 1

Swrcb Tank Id: 36-000-017722-000001

Actv Date: 07-01-85

Capacity: 7500

Tank Use: M.V. FUEL

Stg: P

Content: REG UNLEADED

Number Of Tanks: 13

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

STATER BROS (Continued)

1000401484

Status: A
 Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 2
 Swrcb Tank Id: 36-000-017722-000002
 Actv Date: 07-01-85
 Capacity: 7500
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: A
 Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 3
 Swrcb Tank Id: 36-000-017722-000003
 Actv Date: 07-01-85
 Capacity: 8000
 Tank Use: M.V. FUEL
 Stg: P
 Content: DIESEL
 Number Of Tanks: Not reported

Status: A
 Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 4
 Swrcb Tank Id: 36-000-017722-000004
 Actv Date: 07-01-85
 Capacity: 8000
 Tank Use: M.V. FUEL
 Stg: P
 Content: DIESEL
 Number Of Tanks: Not reported

Status: A
 Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

STATER BROS (Continued)

1000401484

Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 5
 Swrcb Tank Id: 36-000-017722-000005
 Actv Date: 07-01-85
 Capacity: 8000
 Tank Use: M.V. FUEL
 Stg: P
 Content: DIESEL
 Number Of Tanks: Not reported

Status: A
 Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 6
 Swrcb Tank Id: 36-000-017722-000006
 Actv Date: 07-01-85
 Capacity: 8000
 Tank Use: M.V. FUEL
 Stg: P
 Content: DIESEL
 Number Of Tanks: Not reported

Status: A
 Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 7
 Swrcb Tank Id: 36-000-017722-000007
 Actv Date: 07-01-85
 Capacity: 6000
 Tank Use: OIL
 Stg: W
 Content: WASTE OIL
 Number Of Tanks: Not reported

Status: A
 Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 11
 Swrcb Tank Id: 36-000-017722-000008
 Actv Date: 07-01-85
 Capacity: 150

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

STATER BROS (Continued)

1000401484

Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	A
Comp Number:	17722
Number:	1
Board Of Equalization:	44-020656
Ref Date:	03-24-92
Act Date:	03-24-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	12
Swrcb Tank Id:	36-000-017722-000009
Actv Date:	07-01-85
Capacity:	150
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	A
Comp Number:	17722
Number:	1
Board Of Equalization:	44-020656
Ref Date:	03-24-92
Act Date:	03-24-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	13
Swrcb Tank Id:	36-000-017722-000010
Actv Date:	07-01-85
Capacity:	300
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	A
Comp Number:	17722
Number:	1
Board Of Equalization:	44-020656
Ref Date:	03-24-92
Act Date:	03-24-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	14
Swrcb Tank Id:	36-000-017722-000011
Actv Date:	07-01-85
Capacity:	300
Tank Use:	UNKNOWN
Stg:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	A

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

STATER BROS (Continued)

1000401484

Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 15
 Swrcb Tank Id: 36-000-017722-000012
 Actv Date: 07-01-85
 Capacity: 300
 Tank Use: UNKNOWN
 Stg: P
 Content: Not reported
 Number Of Tanks: Not reported

Status: A
 Comp Number: 17722
 Number: 1
 Board Of Equalization: 44-020656
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 16
 Swrcb Tank Id: 36-000-017722-000013
 Actv Date: 07-01-85
 Capacity: 300
 Tank Use: UNKNOWN
 Stg: P
 Content: Not reported
 Number Of Tanks: Not reported

24

**STATER BROTHERS DISTRIBUTION
 21700 BARTON RD
 COLTON, CA 92324**

**LUST S100874979
 N/A**

LUST:

Region: STATE
 Global Id: T0607100067
 Latitude: 34.033888
 Longitude: -117.3319823
 Case Type: LUST Cleanup Site
 Status: Completed - Case Closed
 Status Date: 1997-03-06 00:00:00
 Lead Agency: SAN BERNARDINO COUNTY LOP
 Case Worker: Not reported
 Local Agency: SAN BERNARDINO COUNTY LOP
 RB Case Number: 083600671T
 LOC Case Number: 90168
 File Location: Local Agency
 Potential Media Affect: Soil
 Potential Contaminats of Concern: Diesel
 Site History: Not reported

LUST REG 8:

Region: 8

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

STATER BROTHERS DISTRIBUTION (Continued)

S100874979

County: San Bernardino
 Regional Board: Santa Ana Region
 Facility Status: Case Closed
 Case Number: 083600671T
 Local Case Num: 90168
 Case Type: Soil only
 Substance: Diesel
 Qty Leaked: Not reported
 Abate Method: EDETIT
 Cross Street: LA CADENA
 Enf Type: Not reported
 Funding: Not reported
 How Discovered: OM
 How Stopped: Not reported
 Leak Cause: Other Cause
 Leak Source: Piping
 Global ID: T0607100067
 How Stopped Date: Not reported
 Enter Date: 10/15/1987
 Review Date: Not reported
 Prelim Assess: Not reported
 Discover Date: 7/31/1987
 Enforcement Date: Not reported
 Close Date: 3/6/1997
 Workplan: Not reported
 Pollution Char: 10/15/1987
 Remed Plan: Not reported
 Remed Action: Not reported
 Monitoring: Not reported
 Enter Date: 10/15/1987
 GW Qualifies: Not reported
 Soil Qualifies: Not reported
 Operator: Not reported
 Facility Contact: Not reported
 Interim: Yes
 Oversight Program: LUST
 Latitude: 34.033888
 Longitude: -117.3319823
 MTBE Date: Not reported
 Max MTBE GW: Not reported
 MTBE Concentration: 0
 Max MTBE Soil: Not reported
 MTBE Fuel: 0
 MTBE Tested: Not Required to be Tested.
 MTBE Class: *
 Staff: RS
 Staff Initials: LH6
 Lead Agency: Local Agency
 Local Agency: 36000L
 Hydr Basin #: UPPER SANTA ANA VALL
 Beneficial: Not reported
 Priority: Not reported
 Cleanup Fund Id: Not reported
 Work Suspended: Not reported
 Summary: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

24

CHMIRS S109037327
 N/A

**21700 BARTON RD
 COLTON, CA**

CHMIRS:

OES Incident Number: 07-5412
 OES notification: 9/6/2007 09:29:55 AM
 OES Date: Not reported
 OES Time: Not reported
 Incident Date: Not reported
Date Completed: Not reported
 Property Use: Not reported
 Agency Id Number: Not reported
 Agency Incident Number: Not reported
 Time Notified: Not reported
 Time Completed: Not reported
 Surrounding Area: Not reported
 Estimated Temperature: Not reported
 Property Management: Not reported
 Special Studies 1: Not reported
 Special Studies 2: Not reported
 Special Studies 3: Not reported
 Special Studies 4: Not reported
 Special Studies 5: Not reported
 Special Studies 6: Not reported
 More Than Two Substances Involved?: Not reported
 Resp Agncy Personel # Of Decontaminated: Not reported
 Responding Agency Personel # Of Injuries: Not reported
 Responding Agency Personel # Of Fatalities: Not reported
 Others Number Of Decontaminated: Not reported
 Others Number Of Injuries: Not reported
 Others Number Of Fatalities: Not reported
 Vehicle Make/year: Not reported
 Vehicle License Number: Not reported
 Vehicle State: Not reported
 Vehicle Id Number: Not reported
 CA/DOT/PUC/ICC Number: Not reported
 Company Name: Not reported
 Reporting Officer Name/ID: Not reported
 Report Date: Not reported
 Comments: Not reported
 Facility Telephone: Not reported
 Waterway Involved: Not reported
 Waterway: Not reported
 Spill Site: Not reported
 Cleanup By: Reporting Party
 Containment: Not reported
 What Happened: Not reported
 Type: Not reported
 Measure: Not reported
 Other: Not reported
 Date/Time: Not reported
 Year: 2007
 Agency: Stater Groc
 Incident Date: 9/5/2007 12:00:00 AM
 Admin Agency: San Bernardino County Health Department
 Amount: Not reported
 Contained: Yes
 Site Type: Merchant/Business

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

(Continued)

S109037327

E Date:	Not reported
Substance:	Diesel
Quantity Released:	Not reported
BBLs:	0
Cups:	0
CUFT:	0
Gallons:	3
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Description:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Truck came unto his property without a gas cap and the diesel slopped onto the ground.

25

**TEXACO
 22045 BARTON ROAD / RIVERSIDE
 COLTON, CA 92334**

**HIST UST U001574809
 N/A**

HIST UST:

Region:	STATE
Facility ID:	00000007312
Facility Type:	Gas Station
Other Type:	Not reported
Total Tanks:	0005
Contact Name:	K. TAKOURIAN
Telephone:	7147830385
Owner Name:	TEXACO U.S.A.
Owner Address:	3350 WILSHIRE BLVD.
Owner City,St,Zip:	LOS ANGELES, CA 90010

Tank Num:	001
Container Num:	1
Year Installed:	1965
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Tank Construction:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	2
Year Installed:	1965
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Tank Construction:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	003
-----------	-----

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TEXACO (Continued)

U001574809

Container Num: 3
 Year Installed: 1965
 Tank Capacity: 00006000
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: Not reported
 Leak Detection: Stock Inventor

Tank Num: 004
 Container Num: 4
 Year Installed: 1965
 Tank Capacity: 00006000
 Tank Used for: PRODUCT
 Type of Fuel: PREMIUM
 Tank Construction: Not reported
 Leak Detection: Stock Inventor

Tank Num: 005
 Container Num: 5
 Year Installed: 1965
 Tank Capacity: 00006000
 Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Tank Construction: Not reported
 Leak Detection: Stock Inventor

26

**JACOBSON FH 2
 22193 BARTON RD
 GRAND TERRACE, CA 92313**

**HAZNET S108209891
 N/A**

HAZNET:
 Gepaid: CAC002597604
 Contact: DOUG JACOBSON
 Telephone: 8183406961
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 4733 W CHESTER DR
 Mailing City,St,Zip: WOODLAND HILLS, CA 91364
 Gen County: San Bernardino
 TSD EPA ID: CAD009007626
 TSD County: Los Angeles
 Waste Category: Asbestos-containing waste
 Disposal Method: Not reported
 Tons: 2.44
 Facility County: Not reported

27

**QUICK STOP #5
 22087 BARTON RD
 GRAND TERRACE, CA 92313**

**UST U004050637
 N/A**

UST:
 Global ID: 14490
 Latitude: 34.03379
 Longitude: -117.32258
 Case Type: PERMITTED UNDERGROUND STORAGE TANK (UST)

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site Database(s) EDR ID Number
 EPA ID Number

27 22087 BARTON RD
 COLTON, CA HMIRS 9998101164
 N/A

[Click this hyperlink](#) while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

27 QUICK STOP #5 San Bern. Co. Permit U003941230
 22087 BARTON RD N/A
 GRAND TERRACE, CA 92324

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0005497
 Owner: YASIN, ALI & SALAM
 Permit Number: PT0012365
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0005497
 Owner: YASIN, ALI & SALAM
 Permit Number: PT0012366
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0005497
 Owner: YASIN, ALI & SALAM
 Permit Number: PT0012364
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0005497
 Owner: YASIN, ALI & SALAM
 Permit Number: PT0001840
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0005497
 Owner: YASIN, ALI & SALAM
 Permit Number: PT0012367
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0005497
 Owner: YASIN, ALI & SALAM
 Permit Number: PT0001839
 Permit Category: SPECIAL HANDLER

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

QUICK STOP #5 (Continued)

U003941230

Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

27

**MOBIL STATION #92
 22087 BARTON RD
 COLTON, CA 92324**

**SWEEPS UST S106929536
 N/A**

SWEEPS UST:

Status: A
 Comp Number: 19616
 Number: 9
 Board Of Equalization: 44-000400
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 1
 Swrcb Tank Id: 36-000-019616-000001
 Actv Date: 07-01-85
 Capacity: 10000
 Tank Use: M.V. FUEL
 Stg: P
 Content: LEADED
 Number Of Tanks: 4

Status: A
 Comp Number: 19616
 Number: 9
 Board Of Equalization: 44-000400
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 2
 Swrcb Tank Id: 36-000-019616-000002
 Actv Date: 07-01-85
 Capacity: 10000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: A
 Comp Number: 19616
 Number: 9
 Board Of Equalization: 44-000400
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 3
 Swrcb Tank Id: 36-000-019616-000003
 Actv Date: 07-01-85
 Capacity: 10000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MOBIL STATION #92 (Continued)

S106929536

Status: A
 Comp Number: 19616
 Number: 9
 Board Of Equalization: 44-000400
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 4
 Swrcb Tank Id: 36-000-019616-000004
 Actv Date: 07-01-85
 Capacity: 550
 Tank Use: OIL
 Stg: W
 Content: WASTE OIL
 Number Of Tanks: Not reported

27

**MOBIL STATION #92
 22087 BARTON RD
 GRAND TERRACE, CA 92324**

**HIST UST U001574688
 N/A**

HIST UST:

Region: STATE
 Facility ID: 00000019616
 Facility Type: Gas Station
 Other Type: Not reported
 Total Tanks: 0005
 Contact Name: NABIH AKAR
 Telephone: 7147839959
 Owner Name: E-Z SERVE OF CALIFORNIA, INC.
 Owner Address: 316 S. BON VIEW AVE.
 Owner City,St,Zip: ONTARIO, CA 91761

Tank Num: 001
 Container Num: 1
 Year Installed: Not reported
 Tank Capacity: 00010000
 Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Tank Construction: 1/4 inches
 Leak Detection: None

Tank Num: 002
 Container Num: 2
 Year Installed: Not reported
 Tank Capacity: 00010000
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: 1/4 inches
 Leak Detection: None

Tank Num: 003
 Container Num: 3
 Year Installed: Not reported
 Tank Capacity: 00010000
 Tank Used for: PRODUCT
 Type of Fuel: PREMIUM
 Tank Construction: 1/4 inches

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

MOBIL STATION #92 (Continued)

U001574688

Leak Detection: None
 Tank Num: 004
 Container Num: 4
 Year Installed: Not reported
 Tank Capacity: 00000550
 Tank Used for: WASTE
 Type of Fuel: WASTE OIL
 Tank Construction: 12 gauge
 Leak Detection: Stock Inventor

Tank Num: 005
 Container Num: 5
 Year Installed: Not reported
 Tank Capacity: 00000000
 Tank Used for: WASTE
 Type of Fuel: Not reported
 Tank Construction: Not reported
 Leak Detection: None

27

**QWIK STOP ARCO
 22087 BARTON RD
 GRAND TERRACE, CA 92324**

**HAZNET S102039535
 LUST N/A
 Cortese**

HAZNET:

Gepaid: CAC001174494
 Contact: ALI YASIN
 Telephone: 9092420205
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22087 BARTON RD
 Mailing City,St,Zip: GRAND TERRACE, CA 923135001
 Gen County: San Bernardino
 TSD EPA ID: CAT080013352
 TSD County: Los Angeles
 Waste Category: Tank bottom waste
 Disposal Method: Recycler
 Tons: 1.8765
 Facility County: San Bernardino

LUST:

Region: STATE
 Global Id: T0607100544
 Latitude: 34.0337681
 Longitude: -117.3228929
 Case Type: LUST Cleanup Site
 Status: Open - Site Assessment
 Status Date: 1998-10-21 00:00:00
 Lead Agency: SAN BERNARDINO COUNTY LOP
 Case Worker: Not reported
 Local Agency: SAN BERNARDINO COUNTY LOP
 RB Case Number: 083603377T
 LOC Case Number: 99012
 File Location: Local Agency
 Potential Media Affect: Soil
 Potential Contaminats of Concern: Gasoline, Fuel Oxygenates
 Site History: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

QWIK STOP ARCO (Continued)

S102039535

LUST REG 8:

Region: 8
 County: San Bernardino
 Regional Board: Santa Ana Region
 Facility Status: Leak being confirmed
 Case Number: 083603377T
 Local Case Num: 99012
 Case Type: Soil only
 Substance: 8006619, MTB
 Qty Leaked: Not reported
 Abate Method: Not reported
 Cross Street: Not reported
 Enf Type: Not reported
 Funding: Not reported
 How Discovered: Tank Closure
 How Stopped: Not reported
 Leak Cause: UNK
 Leak Source: UNK
 Global ID: T0607100544
 How Stopped Date: 10/21/1998
 Enter Date: 3/19/1999
 Review Date: 10/21/1998
 Prelim Assess: Not reported
 Discover Date: 12/31/1998
 Enforcement Date: Not reported
 Close Date: Not reported
 Workplan: Not reported
 Pollution Char: Not reported
 Remed Plan: Not reported
 Remed Action: Not reported
 Monitoring: Not reported
 Enter Date: 3/19/1999
 GW Qualifies: ND
 Soil Qualifies: Not reported
 Operator: Not reported
 Facility Contact: Not reported
 Interim: Not reported
 Oversight Program: LUST
 Latitude: 34.0337681
 Longitude: -117.3228929
 MTBE Date: 2/23/2004
 Max MTBE GW: 0
 MTBE Concentration: 0
 Max MTBE Soil: Not reported
 MTBE Fuel: 0
 MTBE Tested: MTBE Detected. Site tested for MTBE & MTBE detected
 MTBE Class: *
 Staff: VJJ
 Staff Initials: CB5
 Lead Agency: Local Agency
 Local Agency: 36000L
 Hydr Basin #: UPPER SANTA ANA VALL
 Beneficial: MUN
 Priority: A1
 Cleanup Fund Id: Not reported
 Work Suspended: Not reported
 Summary: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

QWIK STOP ARCO (Continued)

S102039535

Cortese:
 Region: CORTESE
 Facility Addr2: 22087 BARTON RD

**28 MALY'S OF CALIFORNIA INC
 22125 BARTON RD
 GRAND TERRACE, CA 92324**

**San Bern. Co. Permit S105697574
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0004568
 Owner: MALY'S OF CALIFORNIA INC
 Permit Number: PT0008573
 Permit Category: SPECIAL HANDLER
 Facility Status: INACTIVE
 Expiration Date: 8/31/2007 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0004568
 Owner: MALY'S OF CALIFORNIA INC
 Permit Number: PT0008574
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: INACTIVE
 Expiration Date: 8/31/2007 12:00:00AM

**28 AUTO ZONE # 5614
 22125 BARTON RD
 GRAND TERRACE, CA 92313**

**San Bern. Co. Permit S105697576
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0001228
 Owner: AUTOZONE INC
 Permit Number: PT0009840
 Permit Category: HAZMAT HANDLER - USED OIL COLLECTION CENTERS
 Facility Status: INACTIVE
 Expiration Date: 12/31/2006 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0001228
 Owner: AUTOZONE INC
 Permit Number: PT0018264
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 12/31/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0001228
 Owner: AUTOZONE INC
 Permit Number: PT0018265
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 12/31/2008 12:00:00AM

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

28	AUTOZONE #5614 22125 BARTON RD GRAND TERRACE, CA 92313	FINDS	1007650331 110017959306
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FINDS:

Other Pertinent Environmental Activity Identified at Site

UORS (California - Used Oil Recycling System). California Integrated Waste Management Board (CIWMB) helps communities establish and promote convenient collection opportunities for used oil and used oil filters.

28	GRAND TERRACE GAS-UP 22115 BARTON RD GRAND TERRACE, CA 92324	HIST UST	U001574673 N/A
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HIST UST:

Region: STATE
 Facility ID: 00000009388
 Facility Type: Gas Station
 Other Type: Not reported
 Total Tanks: 0003
 Contact Name: Not reported
 Telephone: 7149828954
 Owner Name: R.F. WHITE CO., INC.
 Owner Address: 1401 E. ARROW HWY
 Owner City,St,Zip: UPLAND, CA 91786

Tank Num: 001
 Container Num: 1
 Year Installed: Not reported
 Tank Capacity: 00007500
 Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 002
 Container Num: 2
 Year Installed: Not reported
 Tank Capacity: 00007500
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

Tank Num: 003
 Container Num: 3
 Year Installed: Not reported
 Tank Capacity: 00007500
 Tank Used for: PRODUCT
 Type of Fuel: PREMIUM
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

28 INLAND COMMERCIAL FUELING HAZNET S104565338
22115 BARTON N/A
GRAND TERRACE, CA 92324

HAZNET:
 Gepaid: CAC001086944
 Contact: RON WHITE
 Telephone: 9099818696
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 918 W 25TH ST
 Mailing City,St,Zip: UPLAND, CA 917840000
 Gen County: San Bernardino
 TSD EPA ID: CAT080013352
 TSD County: Los Angeles
 Waste Category: Waste oil and mixed oil
 Disposal Method: Recycler
 Tons: 1.668
 Facility County: San Bernardino

28 GRAND TERRACE GAS-UP Cortese S101619237
22115 BARTON RD CA FID UST N/A
GRAND TERRACE, CA 92324 San Bern. Co. Permit
SWEEPS UST

Cortese:
 Region: CORTESE
 Facility Addr2: Not reported

CA FID UST:
 Facility ID: 36008490
 Regulated By: UTNKA
 Regulated ID: 00009388
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: Not reported
 Mail To: Not reported
 Mailing Address: 1401 E ARROW HWY
 Mailing Address 2: Not reported
 Mailing City,St,Zip: GRAND TERRACE 92324
 Contact: Not reported
 Contact Phone: Not reported
 DUNS Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0009805
 Owner: YASIN, ALI & SALAM
 Permit Number: PT0016658
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 5/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0009805

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GRAND TERRACE GAS-UP (Continued)

S101619237

Owner: YASIN, ALI & SALAM
 Permit Number: PT0016657
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 5/31/2009 12:00:00AM

SWEEPS UST:

Status: A
 Comp Number: 9388
 Number: 9
 Board Of Equalization: 44-020193
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 1
 Swrcb Tank Id: 36-000-009388-000001
 Actv Date: 07-11-88
 Capacity: 8000
 Tank Use: M.V. FUEL
 Stg: P
 Content: LEADED
 Number Of Tanks: 4

Status: A
 Comp Number: 9388
 Number: 9
 Board Of Equalization: 44-020193
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 2
 Swrcb Tank Id: 36-000-009388-000002
 Actv Date: 07-11-88
 Capacity: 8000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: A
 Comp Number: 9388
 Number: 9
 Board Of Equalization: 44-020193
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 3
 Swrcb Tank Id: 36-000-009388-000003
 Actv Date: 07-11-88
 Capacity: 80000
 Tank Use: M.V. FUEL
 Stg: P
 Content: LEADED
 Number Of Tanks: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GRAND TERRACE GAS-UP (Continued)

S101619237

Status: A
 Comp Number: 9388
 Number: 9
 Board Of Equalization: 44-020193
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 4
 Swrcb Tank Id: 36-000-009388-000004
 Actv Date: 07-11-88
 Capacity: 550
 Tank Use: OIL
 Stg: W
 Content: WASTE OIL
 Number Of Tanks: Not reported

28

**GRAND TERRACE GAS-UP #2603
 22115 BARTON RD
 GRAND TERRACE, CA 92324**

**LUST S104025256
 N/A**

LUST:

Region: STATE
 Global Id: T0607100600
 Latitude: 34.0337691
 Longitude: -117.3221949
 Case Type: LUST Cleanup Site
 Status: Completed - Case Closed
 Status Date: 2000-03-15 00:00:00
 Lead Agency: SAN BERNARDINO COUNTY LOP
 Case Worker: Not reported
 Local Agency: SAN BERNARDINO COUNTY LOP
 RB Case Number: 083603551T
 LOC Case Number: 99084
 File Location: Local Agency
 Potential Media Affect: Soil
 Potential Contaminats of Concern: Gasoline
 Site History: Not reported

LUST REG 8:

Region: 8
 County: San Bernardino
 Regional Board: Santa Ana Region
 Facility Status: Case Closed
 Case Number: 083603551T
 Local Case Num: 99084
 Case Type: Soil only
 Substance: Gasoline
 Qty Leaked: Not reported
 Abate Method: Not reported
 Cross Street: MICHIGAN
 Enf Type: Not reported
 Funding: Not reported
 How Discovered: Tank Closure
 How Stopped: Not reported
 Leak Cause: UNK
 Leak Source: UNK

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

GRAND TERRACE GAS-UP #2603 (Continued)

S104025256

Global ID: T0607100600
 How Stopped Date: 3/22/1999
 Enter Date: 9/17/1999
 Review Date: Not reported
 Prelim Assess: Not reported
 Discover Date: 3/22/1999
 Enforcement Date: Not reported
 Close Date: 3/15/2000
 Workplan: 4/14/1999
 Pollution Char: Not reported
 Remed Plan: Not reported
 Remed Action: Not reported
 Monitoring: Not reported
 Enter Date: 9/17/1999
 GW Qualifies: Not reported
 Soil Qualifies: Not reported
 Operator: Not reported
 Facility Contact: Not reported
 Interim: Not reported
 Oversight Program: LUST
 Latitude: 34.0337691
 Longitude: -117.3221949
 MTBE Date: Not reported
 Max MTBE GW: Not reported
 MTBE Concentration: 0
 Max MTBE Soil: Not reported
 MTBE Fuel: 1
 MTBE Tested: Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.
 MTBE Class: *
 Staff: VJJ
 Staff Initials: LH6
 Lead Agency: Local Agency
 Local Agency: 36000L
 Hydr Basin #: UPPER SANTA ANA VALL
 Beneficial: Not reported
 Priority: Not reported
 Cleanup Fund Id: Not reported
 Work Suspended: No
 Summary: Not reported

28

**JERRY'S AUTO SERVICE
 22115 BARTON RD
 GRAND TERRACE, CA 92313**

**San Bern. Co. Permit S104767373
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0004115
 Owner: OKEL, SHARON
 Permit Number: PT0005917
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: INACTIVE
 Expiration Date: 4/30/2005 12:00:00AM

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

28

CHMIRS S100279249
 N/A

**22115 BARTON RD
 GRAND TERRACE, CA 92324**

CHMIRS:

OES Incident Number: 8905227
 OES notification: Not reported
 OES Date: Not reported
 OES Time: Not reported
 Incident Date: 10-MAR-89
Date Completed: 10-MAR-89
 Property Use: 500
 Agency Id Number: 36709
 Agency Incident Number: 03-10-89-01
 Time Notified: 830
 Time Completed: 1200
 Surrounding Area: 500
 Estimated Temperature: 70
 Property Management: Not reported
 Special Studies 1: Not reported
 Special Studies 2: Not reported
 Special Studies 3: Not reported
 Special Studies 4: Not reported
 Special Studies 5: Not reported
 Special Studies 6: Not reported
 More Than Two Substances Involved?: N
 Resp Agncy Personel # Of Decontaminated: 0
 Responding Agency Personel # Of Injuries: 0
 Responding Agency Personel # Of Fatalities:0
 Others Number Of Decontaminated: 0
 Others Number Of Injuries: 0
 Others Number Of Fatalities: 0
 Vehicle Make/year: Not reported
 Vehicle License Number: Not reported
 Vehicle State: Not reported
 Vehicle Id Number: Not reported
 CA/DOT/PUC/ICC Number: Not reported
 Company Name: Not reported
 Reporting Officer Name/ID: JERRY WONG
 Report Date: 10-MAR-89
 Comments: Not reported
 Facility Telephone: 714 387-3044
 Waterway Involved: Not reported
 Waterway: Not reported
 Spill Site: Not reported
 Cleanup By: Not reported
 Containment: Not reported
 What Happened: Not reported
 Type: Not reported
 Measure: Not reported
 Other: Not reported
 Date/Time: Not reported
 Year: 88-92
 Agency: Not reported
 Incident Date: Not reported
 Admin Agency: Not reported
 Amount: Not reported
 Contained: Not reported
 Site Type: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

(Continued)

S100279249

E Date: 07-MAY-90
 Substance: Not reported
 Quantity Released: Not reported
 BBLS: Not reported
 Cups: Not reported
 CUFT: Not reported
 Gallons: Not reported
 Grams: Not reported
 Pounds: Not reported
 Liters: Not reported
 Ounces: Not reported
 Pints: Not reported
 Quarts: Not reported
 Sheen: Not reported
 Tons: Not reported
 Unknown: Not reported
 Description: Not reported
 Evacuations: Not reported
 Number of Injuries: Not reported
 Number of Fatalities: Not reported
 Description: Not reported

29

TEXACO
22045 BARTON RD
COLTON, CA 92334

HAZNET S103990671
SWEEPS UST N/A

HAZNET:

Gepaid: CAL000046362
 Contact: TEXACO REFINING AND MARKETING
 Telephone: 8185052802
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 10 UNIVERSAL CITY PLAZA 7TH FLOOR
 Mailing City,St,Zip: UNIVERSAL CITY, CA 916081009
 Gen County: San Bernardino
 TSD EPA ID: CAD982484933
 TSD County: 7
 Waste Category: Empty containers less than 30 gallons
 Disposal Method: Disposal, Other
 Tons: 2.6500
 Facility County: San Bernardino

SWEEPS UST:

Status: A
 Comp Number: 7312
 Number: 9
 Board Of Equalization: 44-000217
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 1
 Swrcb Tank Id: 36-000-007312-000001
 Actv Date: 08-24-88
 Capacity: 550
 Tank Use: OIL
 Stg: W

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TEXACO (Continued)

S103990671

Content: WASTE OIL
 Number Of Tanks: 5

Status: A
 Comp Number: 7312
 Number: 9
 Board Of Equalization: 44-000217
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 2
 Swrcb Tank Id: 36-000-007312-000002
 Actv Date: 08-24-88
 Capacity: 6000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: A
 Comp Number: 7312
 Number: 9
 Board Of Equalization: 44-000217
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 3
 Swrcb Tank Id: 36-000-007312-000003
 Actv Date: 08-24-88
 Capacity: 6000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: A
 Comp Number: 7312
 Number: 9
 Board Of Equalization: 44-000217
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 4
 Swrcb Tank Id: 36-000-007312-000004
 Actv Date: 08-24-88
 Capacity: 6000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: A
 Comp Number: 7312
 Number: 9

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TEXACO (Continued)

S103990671

Board Of Equalization: 44-000217
 Ref Date: 07-28-92
 Act Date: 07-28-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 5
 Swrcb Tank Id: 36-000-007312-000005
 Actv Date: 08-24-88
 Capacity: 6000
 Tank Use: M.V. FUEL
 Stg: P
 Content: LEADED
 Number Of Tanks: Not reported

**29 22045 BARTON RD.
 22045 BARTON RD.
 COLTON, CA 92324**

**ERNS 90180870
 N/A**

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

**29 FORMER SHELL STATION
 22045 BARTON ROAD
 GRAND TERRACE, CA 92313**

**LUST S106660960
 N/A**

LUST:
 Region: STATE
 Global Id: T0607135873
 Latitude: 34.033709687
 Longitude: -117.323396
 Case Type: LUST Cleanup Site
 Status: Open - Site Assessment
 Status Date: 2004-10-28 00:00:00
 Lead Agency: SAN BERNARDINO COUNTY LOP
 Case Worker: Not reported
 Local Agency: SAN BERNARDINO COUNTY LOP
 RB Case Number: Not reported
 LOC Case Number: 2004027
 File Location: Not reported
 Potential Media Affect: Soil
 Potential Contaminats of Concern: Gasoline
 Site History: Not reported

LUST REG 8:
 Region: 8
 County: San Bernardino
 Regional Board: Santa Ana Region
 Facility Status: Leak being confirmed
 Case Number: Not reported
 Local Case Num: 2004027
 Case Type: Soil only
 Substance: Gasoline
 Qty Leaked: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

FORMER SHELL STATION (Continued)

S106660960

Abate Method: Not reported
 Cross Street: MICHIGAN AVENUE
 Enf Type: Not reported
 Funding: LOPS
 How Discovered: Tank Closure
 How Stopped: Close Tank
 Leak Cause: UNK
 Leak Source: UNK
 Global ID: T0607135873
 How Stopped Date: Not reported
 Enter Date: Not reported
 Review Date: 10/28/2004
 Prelim Assess: Not reported
 Discover Date: 9/7/2004
 Enforcement Date: Not reported
 Close Date: Not reported
 Workplan: Not reported
 Pollution Char: Not reported
 Remed Plan: Not reported
 Remed Action: Not reported
 Monitoring: Not reported
 Enter Date: Not reported
 GW Qualifies: Not reported
 Soil Qualifies: =
 Operator: Not reported
 Facility Contact: Not reported
 Interim: Not reported
 Oversight Program: LUST
 Latitude: 0
 Longitude: 0
 MTBE Date: Not reported
 Max MTBE GW: Not reported
 MTBE Concentration: 0
 Max MTBE Soil: 2800
 MTBE Fuel: 1
 MTBE Tested: MTBE Detected. Site tested for MTBE & MTBE detected
 MTBE Class: *
 Staff: Not reported
 Staff Initials: LH6
 Lead Agency: Local Agency
 Local Agency: 36000L
 Hydr Basin #: Not reported
 Beneficial: Not reported
 Priority: Not reported
 Cleanup Fund Id: Not reported
 Work Suspended: Not reported
 Summary: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

29	TEXACO 22045 BARTON ROAD COLTON, CA 92324	Notify 65	U000032929 N/A
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Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92324-5001

29	TEXACO SERVICE STATION 22045 BARTON RD GRAND TERRACE, CA 92324	LUST Cortese San Bern. Co. Permit	S101301127 N/A
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LUST:

Region:	STATE
Global Id:	T0607100196
Latitude:	34.0339281
Longitude:	-117.324273
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	1996-12-17 00:00:00
Lead Agency:	SAN BERNARDINO COUNTY LOP
Case Worker:	Not reported
Local Agency:	SAN BERNARDINO COUNTY LOP
RB Case Number:	083601660T
LOC Case Number:	90137
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminats of Concern:	Gasoline
Site History:	Not reported

LUST REG 8:

Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083601660T
Local Case Num:	90137
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Vapor Extraction
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	Structure Failure
Leak Source:	Piping
Global ID:	T0607100196
How Stopped Date:	9/11/1990
Enter Date:	9/16/1990
Review Date:	9/11/1990
Prelim Assess:	9/13/1990
Discover Date:	9/11/1990
Enforcement Date:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

TEXACO SERVICE STATION (Continued)

S101301127

Close Date: 12/17/1996
 Workplan: Not reported
 Pollution Char: 1/7/1991
 Remed Plan: Not reported
 Remed Action: 12/7/1993
 Monitoring: Not reported
 Enter Date: 9/16/1990
 GW Qualifies: Not reported
 Soil Qualifies: Not reported
 Operator: Not reported
 Facility Contact: Not reported
 Interim: Yes
 Oversight Program: LUST
 Latitude: 34.0339281
 Longitude: -117.324273
 MTBE Date: Not reported
 Max MTBE GW: Not reported
 MTBE Concentration: 0
 Max MTBE Soil: Not reported
 MTBE Fuel: 1
 MTBE Tested: Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.
 MTBE Class: *
 Staff: RS
 Staff Initials: LH6
 Lead Agency: Local Agency
 Local Agency: 36000L
 Hydr Basin #: UPPER SANTA ANA VALL
 Beneficial: Not reported
 Priority: Not reported
 Cleanup Fund Id: Not reported
 Work Suspended: Not reported
 Summary: Not reported

Cortese:
 Region: CORTESE
 Facility Addr2: 22045 BARTON RD

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0006581
 Owner: SHELL OIL PRODUCTS, US.
 Permit Number: PT0011905
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: INACTIVE
 Expiration Date: 5/31/2005 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006581
 Owner: SHELL OIL PRODUCTS, US.
 Permit Number: PT0011906
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: INACTIVE
 Expiration Date: 5/31/2005 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006581

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TEXACO SERVICE STATION (Continued)

S101301127

Owner: SHELL OIL PRODUCTS, US.
 Permit Number: PT0011908
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: INACTIVE
 Expiration Date: 5/31/2005 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006581
 Owner: SHELL OIL PRODUCTS, US.
 Permit Number: PT0001202
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: INACTIVE
 Expiration Date: 5/31/2006 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006581
 Owner: SHELL OIL PRODUCTS, US.
 Permit Number: PT0011907
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: INACTIVE
 Expiration Date: 5/31/2005 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006581
 Owner: SHELL OIL PRODUCTS, US.
 Permit Number: PT0011909
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: INACTIVE
 Expiration Date: 5/31/2005 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0010703
 Owner: TANIOS, FAHIM S.
 Permit Number: PT0019427
 Permit Category: HAZMAT HANDLER - UST ONLY
 Facility Status: ACTIVE
 Expiration Date: 11/30/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0010703
 Owner: TANIOS, FAHIM S.
 Permit Number: PT0019428
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 11/30/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0010703
 Owner: TANIOS, FAHIM S.
 Permit Number: PT0019429
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 11/30/2008 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0010703
 Owner: TANIOS, FAHIM S.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TEXACO SERVICE STATION (Continued)

S101301127

Permit Number: PT0019430
 Permit Category: UST OWNERSHIP/OPERATING PERMIT (PER UST)
 Facility Status: ACTIVE
 Expiration Date: 11/30/2008 12:00:00AM

29

**TEXACO SERVICE STATION
 22045 BARTON RD
 COLTON, CA 92324**

**RCRA-SQG 1004676969
 FINDS CAR000091702**

RCRA-SQG:

Date form received by agency: 02/09/2001
 Facility name: TEXACO SERVICE STATION
 Facility address: 22045 BARTON RD
 SAP NO 120906
 COLTON, CA 92324
 EPA ID: CAR000091702
 Mailing address: P O BOX 2099
 HOUSTON, TX 77252
 Contact: SONDRA BIENVENU
 Contact address: P O BOX 2099 T S P 1501
 HOUSTON, TX 77252
 Contact country: US
 Contact telephone: (713) 241-5036
 Contact email: Not reported
 EPA Region: 09
 Classification: Small Small Quantity Generator
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: EQUILON ENTERPRISES
 Owner/operator address: P O BOX 2099
 HOUSTON, TX 77252
 Owner/operator country: Not reported
 Owner/operator telephone: (713) 241-5036
 Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: Not reported
 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown
 Mixed waste (haz. and radioactive): Unknown
 Recycler of hazardous waste: No
 Transporter of hazardous waste: No
 Treater, storer or disposer of HW: No
 Underground injection activity: No
 On-site burner exemption: Unknown
 Furnace exemption: Unknown
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

TEXACO SERVICE STATION (Continued)

1004676969

Used oil transfer facility: No
 Used oil transporter: No
 Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D000
 Waste name: Not Defined

Waste code: D001
 Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
 Waste name: BENZENE

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

29

**SHELL STATION
 22045 BARTON ROAD
 GRAND TERRACE, CA 92324**

**FINDS 1009323566
 110024280240**

FINDS:

Other Pertinent Environmental Activity Identified at Site

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site Database(s) EDR ID Number
 EPA ID Number

29 **TAKOURIAN TEXACO** **UST** **U004050664**
22045 BARTON RD **N/A**
GRAND TERRACE, CA 92313

UST:
 Global ID: 14672
 Latitude: 34.03379
 Longitude: -117.323
 Case Type: PERMITTED UNDERGROUND STORAGE TANK (UST)

29 **TEXACO REFINING/MRKTG INC** **San Bern. Co. Permit** **S104770990**
22045 BARTON RD **N/A**
GRAND TERRACE, CA 92324

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0006635
 Owner: SHELL OIL PRODUCTS, US.
 Permit Number: PT0008804
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: INACTIVE
 Expiration Date: 8/31/2005 12:00:00AM

 Region: SAN BERNARDINO
 Facility ID: FA0006635
 Owner: SHELL OIL PRODUCTS, US.
 Permit Number: PT0008803
 Permit Category: SPECIAL HANDLER
 Facility Status: INACTIVE
 Expiration Date: 8/31/2005 12:00:00AM

30 **AIR LIQUIDE AMERICA CORP** **San Bern. Co. Permit** **S106910660**
2185 LA CROSSE AVE **N/A**
COLTON, CA 92324

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0000719
 Owner: AIR LIQUIDE AMERICA CORP
 Permit Number: PT0009421
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: INACTIVE
 Expiration Date: 7/31/2002 12:00:00AM

31 **CALIFORNIA SKATE GRAND TERRACE** **San Bern. Co. Permit** **S102682754**
22080 COMMERCE WAY **N/A**
GRAND TERRACE, CA 92313

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0001732
 Owner: CARLSON, KACY
 Permit Number: PT0008805
 Permit Category: SPECIAL HANDLER
 Facility Status: INACTIVE
 Expiration Date: 4/30/2006 12:00:00AM

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

CALIFORNIA SKATE GRAND TERRACE (Continued)

S102682754

Region: SAN BERNARDINO
 Facility ID: FA0001732
 Owner: CARLSON, KACY
 Permit Number: PT0008806
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: INACTIVE
 Expiration Date: 4/30/2006 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0001732
 Owner: CARLSON, KACY
 Permit Number: PT0017251
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 4/30/2009 12:00:00AM

32

**SUPERIOR POOL PROD LLC
 22060 COMMERCE WAY
 GRAND TERRACE, CA 92313**

San Bern. Co. Permit

**S104770825
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0006543
 Owner: SCP POOL CORPORATION
 Permit Number: PT0009589
 Permit Category: HAZMAT HANDLER 11-25 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 9/30/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006543
 Owner: SCP POOL CORPORATION
 Permit Number: PT0016280
 Permit Category: EPCRA FACILITY
 Facility Status: ACTIVE
 Expiration Date: 9/30/2009 12:00:00AM

33

**SAN BBDNO FIRE DEPT
 22582 CITY CENTER CT
 GRAND TERRACE, CA 92405**

CA FID UST
 SWEEPS UST

**S101629947
 N/A**

CA FID UST:
 Facility ID: 36007893
 Regulated By: UTNKA
 Regulated ID: 00036795
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: Not reported
 Mail To: Not reported
 Mailing Address: 3800 N SIERRA WAY
 Mailing Address 2: Not reported
 Mailing City,St,Zip: GRAND TERRACE 92405
 Contact: Not reported
 Contact Phone: Not reported
 DUNs Number: Not reported
 NPDES Number: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SAN BBDNO FIRE DEPT (Continued)

S101629947

EPA ID: Not reported
 Comments: Not reported
 Status: Active

SWEEPS UST:

Status: A
 Comp Number: 36795
 Number: 4
 Board Of Equalization: 44-020928
 Ref Date: 08-29-91
 Act Date: 08-29-91
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 1
 Swrcb Tank Id: 36-000-036795-000001
 Actv Date: 07-01-85
 Capacity: 1050
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: 2

Status: A
 Comp Number: 36795
 Number: 4
 Board Of Equalization: 44-020928
 Ref Date: 08-29-91
 Act Date: 08-29-91
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 2
 Swrcb Tank Id: 36-000-036795-000002
 Actv Date: 07-01-85
 Capacity: 1050
 Tank Use: M.V. FUEL
 Stg: P
 Content: DIESEL
 Number Of Tanks: Not reported

33

**SAN BERNARDINO COUNTY FIRE DEP
 22582 CITY CENTER CT
 GRAND TERRACE, CA 92405**

**HIST UST U001576000
 N/A**

HIST UST:

Region: STATE
 Facility ID: 00000036795
 Facility Type: Other
 Other Type: FIRE STATION
 Total Tanks: 0002
 Contact Name: HOWARD WRIGHT
 Telephone: 7148250221
 Owner Name: SAN BERNARDINO COUNTY FIRE WAR
 Owner Address: 3800 N. SIERRA WAY
 Owner City,St,Zip: SAN BERNARDINO, CA 92405

Tank Num: 001
 Container Num: 1

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

SAN BERNARDINO COUNTY FIRE DEP (Continued)

U001576000

Year Installed: 1983
 Tank Capacity: 00001050
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: Not reported
 Leak Detection: Visual, Stock Inventor

Tank Num: 002
 Container Num: 2
 Year Installed: 1983
 Tank Capacity: 00001050
 Tank Used for: PRODUCT
 Type of Fuel: DIESEL
 Tank Construction: Not reported
 Leak Detection: Visual, Stock Inventor

33

**FIRE STN #23
 22582 CITY CENTER
 GRAND TERRACE, CA 92324**

**HAZNET S103643446
 N/A**

HAZNET:
 Gepaid: CAC001333872
 Contact: COUNTY OF SAN BERNADINO
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22582 CITY CENTER
 Mailing City,St,Zip: GRAND TERRACE, CA 923240000
 Gen County: San Bernardino
 TSD EPA ID: CAD028909019
 TSD County: 0
 Waste Category: Waste oil and mixed oil
 Disposal Method: Treatment, Tank
 Tons: .0000
 Facility County: San Bernardino

34

**ORKIN PEST CONTROL #754
 2233 LA CROSSE AVE
 COLTON, CA 92324**

**San Bern. Co. Permit S104768731
 N/A**

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0005122
 Owner: ORKIN PEST CONTROL #754
 Permit Number: PT0009134
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 8/31/2009 12:00:00AM

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

35	THE GAGE CANAL COMPANY 12224 MICHIGAN ST GRAND TERRACE, CA 92324	FINDS	1006826969 EMI 110013861918
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FINDS:

Other Pertinent Environmental Activity Identified at Site

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

EMI:

Year:	1997
County Code:	36
Air Basin:	SC
Facility ID:	94995
Air District Name:	SC
SIC Code:	4941
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0

Year:	1998
County Code:	36
Air Basin:	SC
Facility ID:	94995
Air District Name:	SC
SIC Code:	4941
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0

Year:	1999
County Code:	36
Air Basin:	SC
Facility ID:	94995
Air District Name:	SC
SIC Code:	4941
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

THE GAGE CANAL COMPANY (Continued)

1006826969

NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000
 County Code: 36
 Air Basin: SC
 Facility ID: 94995
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 1
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001
 County Code: 36
 Air Basin: SC
 Facility ID: 94995
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 1
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 1
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2006
 County Code: 36
 Air Basin: SC
 Facility ID: 94995
 Air District Name: SC
 SIC Code: 4941
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 1.706783369803063457
 Reactive Organic Gases Tons/Yr: .156
 Carbon Monoxide Emissions Tons/Yr: 19.71
 NOX - Oxides of Nitrogen Tons/Yr: 1.24
 SOX - Oxides of Sulphur Tons/Yr: .003
 Particulate Matter Tons/Yr: .052
 Part. Matter 10 Micrometers & Smlr Tons/Yr: .051688

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s)
 EPA ID Number

35 R&L PAINTING HAZNET S107146179
12210 MICHIGAN AVENUE N/A
GRAND TERRACE, CA 92317

HAZNET:
 Gepaid: CAL000145663
 Contact: JIM MANN/OWNER
 Telephone: 9097834900
 Facility Addr2: Not reported
 Mailing Name: JIM MANN/OWNER
 Mailing Address: 12210 MICHIGAN ST
 Mailing City,St,Zip: GRAND TERRACE, CA 923135484
 Gen County: San Bernardino
 TSD EPA ID: KYD053348108
 TSD County: San Bernardino
 Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
 Disposal Method: Not reported
 Tons: 0.03
 Facility County: San Bernardino

Gepaid: CAL000145663
 Contact: JIM MANN/OWNER
 Telephone: 9097834900
 Facility Addr2: Not reported
 Mailing Name: JIM MANN/OWNER
 Mailing Address: 12210 MICHIGAN ST
 Mailing City,St,Zip: GRAND TERRACE, CA 923135484
 Gen County: San Bernardino
 TSD EPA ID: KYD053348108
 TSD County: San Bernardino
 Waste Category: Paint sludge
 Disposal Method: Not reported
 Tons: 0.07
 Facility County: San Bernardino

35 OTWELLS TIRE SERVICE HAZNET S108215665
12210 MICHIGAN N/A
GRAND TERRACE, CA 92324

HAZNET:
 Gepaid: CAL000023261
 Contact: UNDELIVERABLE 93 FEE FORM
 Telephone: --
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12210 MICHIGAN
 Mailing City,St,Zip: GRAND TERRACE, CA 923240000
 Gen County: San Bernardino
 TSD EPA ID: CAT080013352
 TSD County: Los Angeles
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Not reported
 Tons: 0.33
 Facility County: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site Database(s) EDR ID Number
 EPA ID Number

35 SURBER MACHINE San Bern. Co. Permit S104770847
12210 MICHIGAN AVE 14 N/A
GRAND TERRACE, CA 92313

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0006555
 Owner: SURBER, DOUGLAS
 Permit Number: PT0000514
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 8/31/2009 12:00:00AM

35 EXTREME PERFORMANCE San Bern. Co. Permit S104766131
12210 MICHIGAN AVE 3 N/A
GRAND TERRACE, CA 92313

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0002982
 Owner: NIMMO, ALLAN
 Permit Number: PT0007394
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: INACTIVE
 Expiration Date: 8/31/2007 12:00:00AM

36 IMPORT CYCLE PARTS & REPR San Bern. Co. Permit S104767109
12229 LA CADENA N/A
COLTON, CA 92324

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0003925
 Owner: RICHARD BUTTLES
 Permit Number: PT0000475
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0003925
 Owner: RICHARD BUTTLES
 Permit Number: PT0000476
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s)
 EPA ID Number

37
**12297 LA CADENA DR
 COLTON, CA 92324**

CDL S107527784
 N/A

CDL:
 Facility ID: 199906019
 Lab Type: Illegal Drug Lab (L) - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

38
**GRAND TERRACE - SAN BERNARDINO LLP
 22316 DE BERRY ST
 GRAND TERRACE, CA 92313**

HAZNET S108208123
 N/A

HAZNET:
 Gepaid: CAC002592748
 Contact: ROGER GIESE
 Telephone: 7608048400
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2451 IMPALA DR STE A
 Mailing City,St,Zip: CARLSBAD, CA 92008
 Gen County: San Bernardino
 TSD EPA ID: AZC950823111
 TSD County: 99
 Waste Category: Asbestos-containing waste
 Disposal Method: Not reported
 Tons: 25.28
 Facility County: Not reported

39
**STATER BROS MKTS
 280 DE BERRY ST
 COLTON, CA 92324**

San Bern. Co. Permit S104770651
 N/A

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0006450
 Owner: STATER BROS. MARKETS
 Permit Number: PT0006793
 Permit Category: GENERATOR - 0-10 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 8/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006450
 Owner: STATER BROS. MARKETS
 Permit Number: PT0006794
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
 Facility Status: ACTIVE
 Expiration Date: 8/31/2009 12:00:00AM

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

**40 STATER BROS. DEVELOPMENT INC.
 375 DE BERRY ST
 COLTON, CA 92324**

**HIST UST
 San Bern. Co. Permit
 SWEEPS UST**

**U001574704
 N/A**

HIST UST:

Region: STATE
 Facility ID: 00000017711
 Facility Type: Other
 Other Type: DEVELOPMENT CO.
 Total Tanks: 0001
 Contact Name: GEORGE DE JESUS
 Telephone: 7147835005
 Owner Name: STATER BROS. DEVELOPMENT INC.
 Owner Address: 375 DE BERRY ST.
 Owner City,St,Zip: COLTON, CA 92324

Tank Num: 001
 Container Num: 1
 Year Installed: 1971
 Tank Capacity: 00005000
 Tank Used for: PRODUCT
 Type of Fuel: DIESEL
 Tank Construction: 1/4 inches
 Leak Detection: Stock Inventor

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0006447
 Owner: STATER BROS. MARKETS
 Permit Number: PT0002362
 Permit Category: GENERATOR - 0-10 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006447
 Owner: STATER BROS. MARKETS
 Permit Number: PT0002363
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

SWEEPS UST:

Status: A
 Comp Number: 17711
 Number: 9
 Board Of Equalization: 44-020655
 Ref Date: 03-24-92
 Act Date: 03-24-92
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 1
 Swrcb Tank Id: 36-000-017711-000001
 Actv Date: 07-01-85
 Capacity: 5000
 Tank Use: M.V. FUEL
 Stg: P
 Content: DIESEL

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EPA ID Number
 EDR ID Number

STATER BROS. DEVELOPMENT INC. (Continued)

U001574704

Number Of Tanks: 1

41 AT & T MOBILITY - GRAND TERRACE San Bern. Co. Permit S106718039
21971 DE BERRY ST N/A
GRAND TERRACE, CA 92324

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0008987
 Owner: NEW CINGULAR WIRELESS PCS, LLC
 Permit Number: PT0015854
 Permit Category: HAZMAT HANDLER - UNSTAFFED REMOTE FACILITY
 Facility Status: ACTIVE
 Expiration Date: 8/31/2009 12:00:00AM

42 DAWCO CONSTRUCTION INC CA FID UST S101591069
12345 LA CADENA SWEEPS UST N/A
GRAND TERRACE, CA 92324

CA FID UST:

Facility ID: 36001154
 Regulated By: UTNKA
 Regulated ID: Not reported
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 7147831218
 Mail To: Not reported
 Mailing Address: 12345 LA CADENA
 Mailing Address 2: Not reported
 Mailing City,St,Zip: GRAND TERRACE 92324
 Contact: Not reported
 Contact Phone: Not reported
 DUNS Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

SWEEPS UST:

Status: A
 Comp Number: 501
 Number: 9
 Board Of Equalization: Not reported
 Ref Date: 03-23-92
 Act Date: 03-23-92
 Created Date: 08-04-89
 Tank Status: Not reported
 Owner Tank Id: Not reported
 Swrcb Tank Id: Not reported
 Actv Date: Not reported
 Capacity: Not reported
 Tank Use: Not reported
 Stg: Not reported
 Content: Not reported
 Number Of Tanks: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site
 Database(s)
 EDR ID Number
 EPA ID Number

DAWCO CONSTRUCTION INC (Continued)

S101591069

Status: Not reported
 Comp Number: 501
 Number: Not reported
 Board Of Equalization: Not reported
 Ref Date: Not reported
 Act Date: Not reported
 Created Date: Not reported
 Tank Status: Not reported
 Owner Tank Id: Not reported
 Swrcb Tank Id: 36-000-000501-000001
 Actv Date: Not reported
 Capacity: 1000
 Tank Use: M.V. FUEL
 Stg: PRODUCT
 Content: DIESEL
 Number Of Tanks: 1

43 INLAND OVERHEAD DOOR COMPANY San Bern. Co. Permit S104767140
12401 S LA CADENA DR N/A
COLTON, CA 92324

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0003966
 Owner: ANDERSON, JOE
 Permit Number: PT0006191
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: INACTIVE
 Expiration Date: 9/30/2008 12:00:00AM

44 WELL RIVERSIDE NORTH #6 San Bern. Co. Permit S107030234
12402 MICHIGAN AVE N/A
GRAND TERRACE, CA 92313

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0009930
 Owner: RIVERSIDE HIGHLAND WATER CO
 Permit Number: PT0017064
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 8/31/2009 12:00:00AM

45 HUD HAZNET S103626411
12395 VIVIENDA AVE N/A
GRAND TERRACE, CA 92324

HAZNET:
 Gepaid: CAC001304600
 Contact: HUD
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2086 SOUTH E ST STE 204
 Mailing City,St,Zip: SAN BERNARDINO, CA 924080000

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

HUD (Continued)

S103626411

Gen County: San Bernardino
 TSD EPA ID: CAD000088252
 TSD County: Los Angeles
 Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
 Disposal Method: Transfer Station
 Tons: .0250
 Facility County: San Bernardino

46

**SWERTFEGER EQUIPMENT INC
 12438 MICHIGAN AVE
 GRAND TERRACE, CA 92313**

**HAZNET S104770858
 San Bern. Co. Permit N/A**

HAZNET:

Gepaid: CAL000238224
 Contact: ARTURO HERNANDEZ
 Telephone: 9098258116
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12438 MICHIGAN AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: CAD982444481
 TSD County: San Bernardino
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: 1.4
 Facility County: Not reported

Gepaid: CAL000238224
 Contact: ARTURO HERNANDEZ
 Telephone: 9098258116
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12438 MICHIGAN AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: CAD008302903
 TSD County: Los Angeles
 Waste Category: Off-specification, aged, or surplus organics
 Disposal Method: Recycler
 Tons: 0.2
 Facility County: San Bernardino

Gepaid: CAL000238224
 Contact: KRISTINE SWERTFEGER
 Telephone: 9098258116
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12438 MICHIGAN AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: CAT080033681
 TSD County: San Bernardino
 Waste Category: Contaminated soil from site clean-ups
 Disposal Method: Disposal, Land Fill
 Tons: 0.6
 Facility County: San Bernardino

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

SWERTFEGER EQUIPMENT INC (Continued)

S104770858

Gepaid: CAL000238224
 Contact: KRISTINE SWERTFEGER
 Telephone: 9098258116
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12438 MICHIGAN AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: San Bernardino
 Waste Category: Contaminated soil from site clean-ups
 Disposal Method: Transfer Station
 Tons: 0.75
 Facility County: San Bernardino

Gepaid: CAL000238224
 Contact: ARTURO HERNANDEZ
 Telephone: 9098258116
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12438 MICHIGAN AVE
 Mailing City,St,Zip: GRAND TERRACE, CA 923130000
 Gen County: San Bernardino
 TSD EPA ID: CAD982444481
 TSD County: San Bernardino
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: 1.4
 Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0006561
 Owner: SWERTFEGER'S EQUIPMENT
 Permit Number: PT0001021
 Permit Category: SPECIAL GENERATOR(B)
 Facility Status: ACTIVE
 Expiration Date: 4/30/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0006561
 Owner: SWERTFEGER'S EQUIPMENT
 Permit Number: PT0001028
 Permit Category: SPECIAL HANDLER
 Facility Status: ACTIVE
 Expiration Date: 4/30/2009 12:00:00AM

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

46	12409 CARDINAL COURT GRAND TERRACE, CA 92313	CDL	S107527836 N/A
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CDL:

Facility ID:	200203056
Lab Type:	Illegal Drug Lab (L) - location where an illegal drug lab was operated or drug lab equipment and/or materials were stored.

47	HUD INTOWN PROPERTIES 12474 VIVIENDA AVE GRAND TERRACE, CA 92313	HAZNET	S104570954 N/A
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HAZNET:

Gepaid:	CAC002173089
Contact:	HUD
Telephone:	0000000000
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	2086 S E ST STE 204
Mailing City,St,Zip:	SAN BERNARDINO, CA 924080000
Gen County:	San Bernardino
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Household waste
Disposal Method:	Transfer Station
Tons:	0.0208
Facility County:	San Bernardino

48	WILLIAM KERRICK 2189 SOUTH LACADENA DRIVE COLTON, CA 92324	HAZNET	S105084380 N/A
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HAZNET:

Gepaid:	CAC002195889
Contact:	WILLIAM KERRICK
Telephone:	9097830745
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	2189 SOUTH LACADENA DRIVE
Mailing City,St,Zip:	COLTON, CA 923240000
Gen County:	San Bernardino
TSD EPA ID:	CAT080033681
TSD County:	Los Angeles
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Disposal, Land Fill
Tons:	.2293
Facility County:	San Bernardino

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

49	WILDEN PUMP & ENGINEERING CO 22069 VAN BUREN ST COLTON, CA 92324	FINDS	1010680025 110031481670
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FINDS:
Other Pertinent Environmental Activity Identified at Site

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

49	WILDEN PUMP AND ENGINEERING 22069 VAN BUREN STREET GRAND TERRACE, CA 92324	FINDS RCRA-LQG San Bern. Co. Permit	1000186921 CAD981369432
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FINDS:
Other Pertinent Environmental Activity Identified at Site

California - Hazardous Waste Tracking System - Datamart

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

RCRA-LQG:

Date form received by agency: 02/16/2006
Facility name: WILDEN PUMP AND ENGINEERING COMPANY
Facility address: 22069 VAN BUREN STREET
GRAND TERRACE, CA 92313
EPA ID: CAD981369432
Contact: ROBERT MILLER
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (909) 422-1767
Contact email: ROBERTMR@WILDENPUMP.COM
EPA Region: 09

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WILDEN PUMP AND ENGINEERING (Continued)

1000186921

Classification: Large Quantity Generator
 Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: WILDEN PUMP AND ENGINEERING COMPANY
 Owner/operator address: Not reported
 Not reported
 Owner/operator country: US
 Owner/operator telephone: Not reported
 Legal status: Private
 Owner/Operator Type: Operator
 Owner/Op start date: 01/01/1960
 Owner/Op end date: Not reported

Owner/operator name: WILDEN PUMP AND ENGINEERING COMPANY
 Owner/operator address: 22069 VAN BUREN STREET
 GRAND TERRACE, CA 92313
 Owner/operator country: US
 Owner/operator telephone: Not reported
 Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: 01/01/1960
 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
 Mixed waste (haz. and radioactive): No
 Recycler of hazardous waste: No
 Transporter of hazardous waste: No
 Treater, storer or disposer of HW: No
 Underground injection activity: No
 On-site burner exemption: No
 Furnace exemption: No
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No
 Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries
 Accumulated waste on-site: No

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

WILDEN PUMP AND ENGINEERING (Continued)

1000186921

Generated waste on-site: No

Waste type: Lamps
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Pesticides
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Thermostats
 Accumulated waste on-site: No
 Generated waste on-site: No

Historical Generators:

Date form received by agency: 02/19/2004
 Facility name: WILDEN PUMP AND ENGINEERING COMPANY
 Classification: Large Quantity Generator

Date form received by agency: 06/25/2002
 Facility name: WILDEN PUMP AND ENGINEERING COMPANY
 Site name: WILDEN PUMP AND ENGINEERING
 Classification: Small Quantity Generator

Date form received by agency: 02/28/2002
 Facility name: WILDEN PUMP AND ENGINEERING COMPANY
 Site name: WILDEN PUMP & ENGINEERING COMP
 Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001
 Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D008
 Waste name: LEAD

Waste code: F003
 Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

WILDEN PUMP AND ENGINEERING (Continued)

1000186921

Last Biennial Reporting Year: 2005

Annual Waste Handled:

Waste code: D001
 Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
 Amount (Lbs): 2172

Waste code: D008
 Waste name: LEAD
 Amount (Lbs): 27450

Waste code: F003
 Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
 Amount (Lbs): 1686

Violation Status: No violations found

San Bern. Co. Permit:

Region: SAN BERNARDINO
 Facility ID: FA0007299
 Owner: DOVER RESOURCES
 Permit Number: PT0002628
 Permit Category: GENERATOR - 101-250 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

Region: SAN BERNARDINO
 Facility ID: FA0007299
 Owner: DOVER RESOURCES
 Permit Number: PT0002627
 Permit Category: HAZMAT HANDLER 101-250 EMPLOYEES (W/GEN PRMT)
 Facility Status: ACTIVE
 Expiration Date: 7/31/2009 12:00:00AM

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

49	WILDEN PUMP & ENGINEERING CO 22069 VANBUREN ST COLTON, CA 92324	EMI	S106842641 N/A
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EMI:

Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	21123
Air District Name:	SC
SIC Code:	2260
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0

Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	21123
Air District Name:	SC
SIC Code:	5084
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0

49	WILDEN PUMP & ENGINEERING COMP 22069 VAN BUREN ST GRAND TERRACE, CA 92324	HIST UST	U001574713
		EMI	N/A
		CA WDS	

HIST UST:

Region:	STATE
Facility ID:	00000068549
Facility Type:	Other
Other Type:	MANUFACTURING
Total Tanks:	0002
Contact Name:	Not reported
Telephone:	0000000000
Owner Name:	WILDEN PUMP & ENGINEERING COMP
Owner Address:	22069 VAN BUREN
Owner City,St,Zip:	GRAND TERRACE, CA 92324

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000400
Tank Used for:	WASTE

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

WILDEN PUMP & ENGINEERING COMP (Continued)

U001574713

Type of Fuel: 5
 Tank Construction: Unkown inches
 Leak Detection: None

Tank Num: 002
 Container Num: 2
 Year Installed: 1979
 Tank Capacity: 00001000
 Tank Used for: PRODUCT
 Type of Fuel: DIESEL
 Tank Construction: Not reported
 Leak Detection: None

EMI:

Year: 1997
 County Code: 36
 Air Basin: SC
 Facility ID: 21123
 Air District Name: SC
 SIC Code: 3561
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 2
 Reactive Organic Gases Tons/Yr: 2
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1998
 County Code: 36
 Air Basin: SC
 Facility ID: 21123
 Air District Name: SC
 SIC Code: 3561
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 2
 Reactive Organic Gases Tons/Yr: 2
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1999
 County Code: 36
 Air Basin: SC
 Facility ID: 21123
 Air District Name: SC
 SIC Code: 3561
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

WILDEN PUMP & ENGINEERING COMP (Continued)

U001574713

Total Organic Hydrocarbon Gases Tons/Yr: 2
 Reactive Organic Gases Tons/Yr: 2
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000
 County Code: 36
 Air Basin: SC
 Facility ID: 21123
 Air District Name: SC
 SIC Code: 3561
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 2
 Reactive Organic Gases Tons/Yr: 2
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001
 County Code: 36
 Air Basin: SC
 Facility ID: 21123
 Air District Name: SC
 SIC Code: 3561
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 3
 Reactive Organic Gases Tons/Yr: 2
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2002
 County Code: 36
 Air Basin: SC
 Facility ID: 21123
 Air District Name: SC
 SIC Code: 3561
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 5
 Reactive Organic Gases Tons/Yr: 4
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WILDEN PUMP & ENGINEERING COMP (Continued)

U001574713

Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	2003
County Code:	36
Air Basin:	SC
Facility ID:	21123
Air District Name:	SC
SIC Code:	3561
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	2004
County Code:	36
Air Basin:	SC
Facility ID:	21123
Air District Name:	SC
SIC Code:	3561
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.4064189
Reactive Organic Gases Tons/Yr:	4.24
Carbon Monoxide Emissions Tons/Yr:	0.0291
NOX - Oxides of Nitrogen Tons/Yr:	0.108
SOX - Oxides of Sulphur Tons/Yr:	0.000689
Particulate Matter Tons/Yr:	0.10813
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0.07
Year:	2005
County Code:	36
Air Basin:	SC
Facility ID:	21123
Air District Name:	SC
SIC Code:	3561
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.102425
Reactive Organic Gases Tons/Yr:	4.774224802
Carbon Monoxide Emissions Tons/Yr:	1.3548
NOX - Oxides of Nitrogen Tons/Yr:	1.1723
SOX - Oxides of Sulphur Tons/Yr:	.801425
Particulate Matter Tons/Yr:	.499415
Part. Matter 10 Micrometers & Smlr Tons/Yr:	.4694969
Year:	2006
County Code:	36
Air Basin:	SC
Facility ID:	21123

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WILDEN PUMP & ENGINEERING COMP (Continued)

U001574713

Air District Name: SC
 SIC Code: 3561
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 2.495379035312013734
 Reactive Organic Gases Tons/Yr: 1.312
 Carbon Monoxide Emissions Tons/Yr: .774
 NOX - Oxides of Nitrogen Tons/Yr: .714
 SOX - Oxides of Sulphur Tons/Yr: .448
 Particulate Matter Tons/Yr: .436
 Part. Matter 10 Micrometers & Smlr Tons/Yr: .32023

CA WDS:

Facility ID: Santa Ana River 36I014030
 Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
 Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
 NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
 Subregion: 8
 Facility Telephone: Not reported
 Facility Contact: Not reported
 Agency Name: WILDEN PUMP & ENGINEERING CO
 Agency Address: 22069 VAN BUREN ST
 Agency City,St,Zip: GRAND TERRACE 92313
 Agency Contact: ROBERT MILLER
 Agency Telephone: 9094221700
 Agency Type: Private
 SIC Code: 3561
 SIC Code 2: Not reported
 Primary Waste: Not reported
 Primary Waste Type: Not reported
 Secondary Waste: Not reported
 Secondary Waste Type: Not reported
 Design Flow: 0
 Baseline Flow: 0
 Reclamation: Not reported
 POTW: Not reported
 Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
 Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s) EPA ID Number

49 WILDEN PUMP & ENGINEERING COMPANY HAZNET S102806709
22069 VAN BUREN STREET N/A
GRAND TERRACE, CA 92313

HAZNET:

Gepaid: CAD981369432
 Contact: R MILLER INDUSTRIAL COMPL MGR
 Telephone: 9094221767
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22069 VAN BUREN ST
 Mailing City,St,Zip: GRAND TERRACE, CA 923135651
 Gen County: San Bernardino
 TSD EPA ID: CAD008364432
 TSD County: Los Angeles
 Waste Category: Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
 Disposal Method: Transfer Station
 Tons: 1.15
 Facility County: Not reported

Gepaid: CAD981369432
 Contact: WILDEN PUMP AND ENGINEERING CO
 Telephone: 9094221700
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22069 VAN BUREN ST
 Mailing City,St,Zip: GRAND TERRACE, CA 923135651
 Gen County: San Bernardino
 TSD EPA ID: CAD008364432
 TSD County: Los Angeles
 Waste Category: Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
 Disposal Method: Not reported
 Tons: .2000
 Facility County: San Bernardino

Gepaid: CAD981369432
 Contact: WILDEN PUMP AND ENGINEERING CO
 Telephone: 9094221700
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22069 VAN BUREN ST
 Mailing City,St,Zip: GRAND TERRACE, CA 923135651
 Gen County: San Bernardino
 TSD EPA ID: CAD008364432
 TSD County: Los Angeles
 Waste Category: Organic liquids (nonsolvents) with halogens
 Disposal Method: Treatment, Tank
 Tons: .4502
 Facility County: San Bernardino

Gepaid: CAD981369432
 Contact: WILDEN PUMP AND ENGINEERING CO
 Telephone: 9094221700

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 EPA ID Number

Database(s)

WILDEN PUMP & ENGINEERING COMPANY (Continued)

S102806709

Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22069 VAN BUREN ST
 Mailing City,St,Zip: GRAND TERRACE, CA 923135651
 Gen County: San Bernardino
 TSD EPA ID: CAD008364432
 TSD County: Los Angeles
 Waste Category: Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
 Disposal Method: Recycler
 Tons: .2000
 Facility County: San Bernardino

Gepaid: CAD981369432
 Contact: WILDEN PUMP AND ENGINEERING CO
 Telephone: 9094221700
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 22069 VAN BUREN ST
 Mailing City,St,Zip: GRAND TERRACE, CA 923135651
 Gen County: San Bernardino
 TSD EPA ID: CAD008364432
 TSD County: Los Angeles
 Waste Category: Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
 Disposal Method: Treatment, Incineration
 Tons: 1.6510
 Facility County: San Bernardino

[Click this hyperlink](#) while viewing on your computer to access 83 additional CA_HAZNET: record(s) in the EDR Site Report.

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**HARBER CO INC
 21999 VAN BUREN
 GRAND TERRACE, CA 92324**

**HAZNET S105089135
 N/A**

HAZNET:
 Gepaid: CAL000023097
 Contact: ROBYNN BENSON/OFFICE MNGR
 Telephone: 9094781957
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1880 E RIVERVIEW DR
 Mailing City,St,Zip: SAN BERNARDINO, CA 924085640
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: San Bernardino
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: 0.6
 Facility County: Not reported

Gepaid: CAL000023097
 Contact: ROBYNN BENSON/OFFICE MNGR

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

HARBER CO INC (Continued)

S105089135

Telephone: 9094781957
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1880 E RIVERVIEW DR
 Mailing City,St,Zip: SAN BERNARDINO, CA 924085640
 Gen County: San Bernardino
 TSD EPA ID: Not reported
 TSD County: San Bernardino
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Transfer Station
 Tons: 0.68
 Facility County: Not reported

Gepaid: CAL000023097
 Contact: HARBER JAMES BRIAN
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1880 E RIVERVIEW DR
 Mailing City,St,Zip: SAN BERNARDINO, CA 924085640
 Gen County: San Bernardino
 TSD EPA ID: CAT080033681
 TSD County: Los Angeles
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: .6500
 Facility County: San Bernardino

Gepaid: CAL000023097
 Contact: HARBER JAMES BRIAN
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1880 E RIVERVIEW DR
 Mailing City,St,Zip: SAN BERNARDINO, CA 924085640
 Gen County: San Bernardino
 TSD EPA ID: CAD982444481
 TSD County: San Bernardino
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Recycler
 Tons: .7500
 Facility County: San Bernardino

Gepaid: CAL000023097
 Contact: HARBER JAMES BRIAN
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1880 E RIVERVIEW DR
 Mailing City,St,Zip: SAN BERNARDINO, CA 924085640
 Gen County: San Bernardino
 TSD EPA ID: CAT080022148
 TSD County: San Bernardino
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: .5000
 Facility County: San Bernardino

MAP FINDINGS

Map ID		EDR ID Number
Direction		
Distance		
Distance (ft.)Site	Database(s)	EPA ID Number

HARBER CO INC (Continued)

S105089135

[Click this hyperlink](#) while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

50	<p>ROADRUNNER STORAGE 21999 VAN BUREN ST GRAND TERRACE, CA 92313</p>	<p>San Bern. Co. Permit S106911378 N/A</p>
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San Bern. Co. Permit:

Region: SAN BERNARDINO
Facility ID: FA0009655
Owner: FOX, WILLIAM
Permit Number: PT0018978
Permit Category: SPECIAL GENERATOR(B)
Facility Status: INACTIVE
Expiration Date: 5/31/2009 12:00:00AM

Region: SAN BERNARDINO
Facility ID: FA0009655
Owner: FOX, WILLIAM
Permit Number: PT0018979
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 5/31/2009 12:00:00AM

Region: SAN BERNARDINO
Facility ID: FA0009655
Owner: FOX, WILLIAM
Permit Number: PT0016833
Permit Category: AST OPERATING PERMIT
Facility Status: INACTIVE
Expiration Date: 5/31/2007 12:00:00AM

51	<p>WILDEN PUMP & ENGINEERING CO 22038 VAN BUREN ST GRAND TERRACE, CA 92313</p>	<p>HAZNET S102805037 N/A</p>
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HAZNET:

Gepaid: CAC001105992
Contact: M DUKE AND E FREED
Telephone: 9094221700
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 22069 VAN BUREN ST
Mailing City,St,Zip: GRAND TERRACE, CA 923135651
Gen County: San Bernardino
TSD EPA ID: CAD009007626
TSD County: Los Angeles
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Tons: 21.0700
Facility County: San Bernardino

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s)
 EPA ID Number

52 FINE LINE SCREEN PRINTING & GRAPHIC **HAZNET S105089826**
21935 VAN BUREN, #14 **N/A**
GRAND TERRACE, CA 92313

HAZNET:
 Gepaid: CAL000089561
 Contact: BART T. BOYER
 Telephone: 9093704453
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21935 VAN BUREN ST STE 14
 Mailing City,St,Zip: GRAND TERRACE, CA 923135624
 Gen County: San Bernardino
 TSD EPA ID: CAT000613976
 TSD County: Orange
 Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
 Disposal Method: Transfer Station
 Tons: .0792
 Facility County: San Bernardino

52 FINELINE SCREENPRINTING **HAZNET S100862060**
21935 VAN BUREN **N/A**
GRAND TERRACE, CA 92324

HAZNET:
 Gepaid: CAL000111039
 Contact: BART BOYER
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 21935 VAN BUREN
 Mailing City,St,Zip: GRAND TERRACE, CA 923240000
 Gen County: San Bernardino
 TSD EPA ID: CAD982429144
 TSD County: Santa Clara
 Waste Category: Photochemicals/photoprocessing waste
 Disposal Method: Not reported
 Tons: .0417
 Facility County: San Bernardino

53 JET SET LIFE TECHNOLOGIES **San Bern. Co. Permit S104767383**
21935 VAN BUREN ST '4' **N/A**
GRAND TERRACE, CA 92324

San Bern. Co. Permit:
 Region: SAN BERNARDINO
 Facility ID: FA0004121
 Owner: FRENCH, GEORGE WILLIAM
 Permit Number: PT0008572
 Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
 Facility Status: ACTIVE
 Expiration Date: 9/30/2007 12:00:00AM

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)Site

EDR ID Number
 Database(s)
 EPA ID Number

54 HUD INTOWN PROPERTIES HAZNET S103968694
12510 MICHIGAN ST N/A
GRAND TERRACE, CA 92313

HAZNET:
 Gepaid: CAC001362104
 Contact: HUD
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2086 S E ST STE 204
 Mailing City,St,Zip: SAN BERNARDINO, CA 924080000
 Gen County: San Bernardino
 TSD EPA ID: CAD982444481
 TSD County: San Bernardino
 Waste Category: Household waste
 Disposal Method: Transfer Station
 Tons: .0333
 Facility County: San Bernardino

55 THERESA MEYER HAZNET S108756551
12559 MICHIGAN ST N/A
GRAND TERRACE, CA 92313

HAZNET:
 Gepaid: CAC002599884
 Contact: THERESA
 Telephone: 9097831826
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 12559 MICHIGAN ST
 Mailing City,St,Zip: GRAND TERRACE, CA 92313
 Gen County: San Bernardino
 TSD EPA ID: CAD028409019
 TSD County: Los Angeles
 Waste Category: Off-specification, aged, or surplus organics
 Disposal Method: Transfer Station
 Tons: 0.22
 Facility County: San Bernardino

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COLTON	S108200620	CALTRANS DIST 8/CONSTR EA 08-457604	I 10 RTE 215 CONNECTOR	92324	HAZNET
COLTON	1000401931	DIETERICH INTL SALES	HWY 10 AT 15 INTERST	92313	RCRA-SQG, FINDS
COLTON	S108743987	CALTRANS DIST 8/CONSTR/EA08-OC1804	RTE 215 KM 4.35-8.05 FROM WASHINGTO	92324	HAZNET
COLTON	S105726446	EQUILON ENTERPRISES	22045 BARTON RD SAP NO 120906	92324	HAZNET
COLTON	S106929587	MONTECITO MEMORIAL PARK	BARTON / WATERMAN RD	92324	SWEEPS UST
COLTON	S105697379	F P AUTO REPAIR	498 LA CADENA DR UNIT A / B	92324	San Bern. Co. Permit
COLTON	S106911212	AUTO REPAIR-REBUILD ENGINES & TRANS	498 LA CADENA DR B	92324	San Bern. Co. Permit
COLTON	S106926336	FORMER TEXACO STATION	12591 LA CADENA DR	92324	SWEEPS UST
COLTON	S106925222	DAWCO CONSTRUCTION	12345 LA CADENA	92324	SWEEPS UST
COLTON	S107142208	CITY OF RIVERSIDE	CRN OF TROPICANA RANCHO RD / LA	92324	HAZNET
COLTON	S108431064	ARTISAN MARBLE, INC	2279 LA CROSSE AVE STE 401	92324	EMI
COLTON	1003879736	GUYAUX LANDFILL	END OF FLORES & FERNANDO STREETS	92324	CERC-NFRAP
COLTON	S107448040	G & G TOWING & AUTO SERVICE	1388 N LA CADENA DR STE C	92324	San Bern. Co. Permit
COLTON	S107532289		2851 SOUTH LA CODENA	92324	CDL
COLTON	S108747622	G & G TOWING & AUTO SERVICE	1370 N LA CADENA DR STE C	92324	HAZNET
COLTON	S107539223		LITTON AVE, 1/2 MI W OF LA CADENA DR	92324	CDL
COLTON	S106112115	ATC- BLUE MOUNTAIN #2	.5 MILES E/O BLUE MTN	92324	San Bern. Co. Permit
COLTON	S106112116	ATC- BLUE MOUNTAIN #1	.75 MILES S/O HONEYHILL	92324	San Bern. Co. Permit
COLTON	S106930230	P & M SERVICE STATIONS #959	1150 MOUNT VERNON	92324	SWEEPS UST
COLTON	S106933400	UNION OIL SERVICE STATION #656	1496 MOUNT VERNON AVE	92324	SWEEPS UST
COLTON	S108753282	PRINTING & PROMOTION PLUS INC	930 S MOUNT VERNON AVE STE 200	92324	HAZNET
COLTON	S103771189	S P EAST COLTON YARD	MOUNT VERNON	92324	LUST
COLTON	S106832475	HENAGON LIMITED	SANTA ANA RIVER W OF LA CADENA	92324	EMI
GRAND TERRACE	S106829936	DEMETRI'S RESTAURANT DBA	21900 BARTON RD STE 100	92324	EMI
GRAND TERRACE	S106088990	NORTHERN REFRIGERATION TRANSPORTATION	21800 BARTON BUSINESS PARK	92313	HAZNET
GRAND TERRACE	S108196462	A 1 CLEANERS	21900 BARTON RD STE 130	92313	HAZNET
GRAND TERRACE	S108196577	A1 CLEANERS	21900 BARTON RD STE 130	92313	HAZNET
GRAND TERRACE	S108419360	CM MOTORSPORTS	21800 BARTON RD STE 102	92313	San Bern. Co. Permit
GRAND TERRACE	S108541316	SUPER CLEANERS	22310 BARTON RD STE F	92313	HAZNET
GRAND TERRACE	S109117838	CB TYRES RECYCLING RESOURCES	21801 BARTON RD UNIT D	92313	San Bern. Co. Permit
GRAND TERRACE	S109117841	COR JOHN W. NORTH WATER FACILITY	GRAND TERRACE / NEWPORT	92324	San Bern. Co. Permit
GRAND TERRACE	1000401509	FILTER DISPOSAL SERVICE, INC	12210 MICHIGAN AVE	92324	FINDS, RCRA-NonGen
GRAND TERRACE	S107448034	DIRT BAG RACING	12210 MICHIGAN AVE STE 11	92313	San Bern. Co. Permit
GRAND TERRACE	S108219175	SAF.R.DIG UTILITY SURVEYS	12210 MICHIGAN ST STE 24	92313	HAZNET
GRAND TERRACE	S108536415	CANYON RACERS	12210 MICHIGAN ST STE 3 / 4	92313	San Bern. Co. Permit
GRAND TERRACE	S108536421	CYCLE PREP	12210 MICHIGAN ST UNIT #26	92313	San Bern. Co. Permit
GRAND TERRACE	S109254299	EMIL MILLER FABRICATION	12210 MICHIGAN AVE STE 5	92313	San Bern. Co. Permit
GRAND TERRACE	S106831108	FISHER CONST	12210 MICHIGAN AV, UNIT B / A		EMI
GRAND TERRACE	92274945	MT VERNON AND BARTON AVE	MT VERNON AND BARTON AVE	92324	ERNS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/29/2008	Source: EPA
Date Data Arrived at EDR: 10/10/2008	Telephone: N/A
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 09/29/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 09/29/2008	Source: EPA
Date Data Arrived at EDR: 10/10/2008	Telephone: N/A
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 09/29/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/29/2008	Source: EPA
Date Data Arrived at EDR: 10/10/2008	Telephone: N/A
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 09/29/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 11/17/2008
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/07/2008	Source: EPA
Date Data Arrived at EDR: 10/16/2008	Telephone: 703-412-9810
Date Made Active in Reports: 12/08/2008	Last EDR Contact: 01/16/2009
Number of Days to Update: 53	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 01/12/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 03/16/2009
	Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/19/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/29/2008	Telephone: 202-564-6023
Date Made Active in Reports: 09/09/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 11	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/11/2008	Source: EPA
Date Data Arrived at EDR: 09/19/2008	Telephone: 800-424-9346
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 12/01/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 03/02/2009
	Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/06/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/17/2008	Telephone: 703-603-0695
Date Made Active in Reports: 12/08/2008	Last EDR Contact: 12/29/2008
Number of Days to Update: 52	Next Scheduled EDR Contact: 03/30/2009
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/06/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/17/2008	Telephone: 703-603-0695
Date Made Active in Reports: 12/08/2008	Last EDR Contact: 12/29/2008
Number of Days to Update: 52	Next Scheduled EDR Contact: 03/30/2009
	Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/23/2008	Telephone: 202-267-2180
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 10/21/2008
Number of Days to Update: 54	Next Scheduled EDR Contact: 01/19/2009
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/2008	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/16/2008	Telephone: 202-366-4555
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 01/13/2009
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 11/26/2008
Number of Days to Update: 72	Next Scheduled EDR Contact: 02/23/2009
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 10/31/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 53

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 10/31/2008
Next Scheduled EDR Contact: 03/23/2009
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2008
Date Data Arrived at EDR: 11/14/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 01/16/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 11/07/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/29/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 12/08/2008
Next Scheduled EDR Contact: 03/09/2009
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/15/2008
Date Data Arrived at EDR: 10/22/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 62

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/21/2008
Date Data Arrived at EDR: 10/29/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 55

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/29/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 07/13/2007
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/16/2009
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 03/25/2008
Date Data Arrived at EDR: 04/17/2008
Date Made Active in Reports: 05/15/2008
Number of Days to Update: 28

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 12/22/2008
Next Scheduled EDR Contact: 03/23/2009
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/07/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/23/2008
Next Scheduled EDR Contact: 03/23/2009
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/19/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/08/2008
Date Data Arrived at EDR: 10/17/2008
Date Made Active in Reports: 12/08/2008
Number of Days to Update: 52

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 12/15/2008
Next Scheduled EDR Contact: 03/16/2009
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 10/08/2008
Date Data Arrived at EDR: 10/17/2008
Date Made Active in Reports: 12/08/2008
Number of Days to Update: 52

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 12/15/2008
Next Scheduled EDR Contact: 03/16/2009
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 12/04/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/31/2008
Date Data Arrived at EDR: 08/13/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007
Date Data Arrived at EDR: 02/07/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 39

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 09/18/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/03/2008
Date Data Arrived at EDR: 10/15/2008
Date Made Active in Reports: 11/19/2008
Number of Days to Update: 35

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/29/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/28/2008
Date Data Arrived at EDR: 10/29/2008
Date Made Active in Reports: 12/08/2008
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/29/2008
Next Scheduled EDR Contact: 01/26/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/30/2008	Source: EPA
Date Data Arrived at EDR: 10/31/2008	Telephone: (415) 947-8000
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 12/29/2008
Number of Days to Update: 53	Next Scheduled EDR Contact: 03/30/2009
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005	Source: EPA/NTIS
Date Data Arrived at EDR: 03/06/2007	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2007	Last EDR Contact: 12/09/2008
Number of Days to Update: 38	Next Scheduled EDR Contact: 03/09/2009
	Data Release Frequency: Biennially

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 09/08/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2008	Telephone: 615-532-8599
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 12/08/2008
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/09/2009
	Data Release Frequency: Varies

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 11/24/2008
Number of Days to Update: 21	Next Scheduled EDR Contact: 02/23/2009
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/25/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/26/2008
Next Scheduled EDR Contact: 02/23/2009
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 11/04/2008
Next Scheduled EDR Contact: 01/26/2009
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/09/2008
Date Made Active in Reports: 09/18/2008
Number of Days to Update: 9

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 12/09/2008
Next Scheduled EDR Contact: 03/09/2009
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 12/15/2008
Next Scheduled EDR Contact: 03/16/2009
Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 12/01/2008
Next Scheduled EDR Contact: 03/02/2009
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/20/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/06/2008
Date Data Arrived at EDR: 10/08/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 49

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 01/08/2009
Next Scheduled EDR Contact: 04/06/2009
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 11/04/2008
Date Data Arrived at EDR: 11/04/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 01/08/2009
Next Scheduled EDR Contact: 04/06/2009
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 01/05/2009
Next Scheduled EDR Contact: 04/06/2009
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 12/23/2008
Next Scheduled EDR Contact: 03/23/2009
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 12/01/2008
Next Scheduled EDR Contact: 03/02/2009
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 12/29/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 11/04/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/02/2009
	Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/04/2008	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/04/2008	Telephone: 866-480-1028
Date Made Active in Reports: 11/26/2008	Last EDR Contact: 01/08/2009
Number of Days to Update: 22	Next Scheduled EDR Contact: 04/06/2009
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 11/17/2008
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 01/05/2009
Number of Days to Update: 30	Next Scheduled EDR Contact: 04/06/2009
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 11/10/2008
Number of Days to Update: 28	Next Scheduled EDR Contact: 02/09/2009
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 12/29/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 12/29/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 12/01/2008
Next Scheduled EDR Contact: 03/02/2009
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 12/29/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 11/24/2008
Next Scheduled EDR Contact: 02/23/2009
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 11/04/2008
Date Data Arrived at EDR: 11/04/2008
Date Made Active in Reports: 12/05/2008
Number of Days to Update: 31

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 01/08/2009
Next Scheduled EDR Contact: 04/06/2009
Data Release Frequency: Semi-Annually

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 10/06/2008
Date Data Arrived at EDR: 10/06/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 10

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 12/22/2008
Next Scheduled EDR Contact: 03/23/2009
Data Release Frequency: Varies

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/06/2008
Date Data Arrived at EDR: 11/07/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 19

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/03/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Varies

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 05/09/2008
Date Made Active in Reports: 06/20/2008
Number of Days to Update: 42

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 11/04/2008
Date Data Arrived at EDR: 11/07/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 19

Source: State Water Quality Control Board
Telephone: 866-480-1028
Last EDR Contact: 01/08/2009
Next Scheduled EDR Contact: 04/06/2009
Data Release Frequency: Quarterly

AST: Aboveground Petroleum Storage Tank Facilities Registered Aboveground Storage Tanks.

Date of Government Version: 11/01/2007
Date Data Arrived at EDR: 11/27/2007
Date Made Active in Reports: 02/14/2008
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/27/2008
Next Scheduled EDR Contact: 01/26/2009
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 11/04/2008
Date Data Arrived at EDR: 11/07/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 19

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 01/08/2009
Next Scheduled EDR Contact: 04/06/2009
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/30/2008	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/30/2008	Telephone: 916-323-3400
Date Made Active in Reports: 10/13/2008	Last EDR Contact: 12/30/2009
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/30/2009
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/25/2008	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/27/2008	Telephone: 916-323-3400
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 11/26/2008
Number of Days to Update: 7	Next Scheduled EDR Contact: 02/23/2009
	Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/23/2008	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 09/24/2008	Telephone: 916-327-4498
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 01/12/2009
Number of Days to Update: 5	Next Scheduled EDR Contact: 03/30/2009
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 10/31/2008	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 11/03/2008	Telephone: 213-576-6726
Date Made Active in Reports: 11/26/2008	Last EDR Contact: 11/03/2008
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/19/2009
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 09/30/2008	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/06/2008	Telephone: 916-255-6504
Date Made Active in Reports: 10/13/2008	Last EDR Contact: 01/19/2009
Number of Days to Update: 7	Next Scheduled EDR Contact: 04/19/2009
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/25/2008	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/27/2008	Telephone: 916-323-3400
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 11/26/2008
Number of Days to Update: 7	Next Scheduled EDR Contact: 02/23/2009
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2006	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/04/2007	Telephone: 916-255-1136
Date Made Active in Reports: 11/07/2007	Last EDR Contact: 11/07/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/02/2008
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2006	Source: California Air Resources Board
Date Data Arrived at EDR: 10/16/2008	Telephone: 916-322-2990
Date Made Active in Reports: 11/26/2008	Last EDR Contact: 01/16/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Varies

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/25/2008	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/27/2008	Telephone: 916-323-3400
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 11/26/2008
Number of Days to Update: 7	Next Scheduled EDR Contact: 02/23/2009
	Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/22/2008	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/22/2008	Telephone: 916-341-6422
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 12/22/2008
Number of Days to Update: 7	Next Scheduled EDR Contact: 03/09/2009
	Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 11/07/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/02/2009
	Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 11/24/2008
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/23/2009
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 12/02/2008	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2008	Telephone: 303-312-6271
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 19	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/03/2008	Telephone: 913-551-7003
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 11/19/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/06/2008	Source: EPA Region 4
Date Data Arrived at EDR: 10/09/2008	Telephone: 404-562-8677
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008	Source: EPA Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/10/2008	Telephone: 415-972-3372
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/18/2008	Source: EPA Region 10
Date Data Arrived at EDR: 11/19/2008	Telephone: 206-553-2857
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/25/2008	Source: EPA Region 6
Date Data Arrived at EDR: 11/26/2008	Telephone: 214-665-6597
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 06/06/2008	Source: EPA Region 4
Date Data Arrived at EDR: 10/09/2008	Telephone: 404-562-9424
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 09/08/2008	Source: EPA Region 5
Date Data Arrived at EDR: 09/19/2008	Telephone: 312-886-6136
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 11/25/2008	Source: EPA Region 6
Date Data Arrived at EDR: 11/26/2008	Telephone: 214-665-7591
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 06/01/2007	Source: EPA Region 7
Date Data Arrived at EDR: 06/14/2007	Telephone: 913-551-7003
Date Made Active in Reports: 07/05/2007	Last EDR Contact: 11/19/2008
Number of Days to Update: 21	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 12/01/2008
Date Data Arrived at EDR: 12/04/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 19

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 09/05/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 27

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 11/18/2008
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/28/2008
Date Data Arrived at EDR: 10/30/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/28/2008
Date Data Arrived at EDR: 10/30/2008
Date Made Active in Reports: 12/05/2008
Number of Days to Update: 36

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: 04/19/2009
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/03/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/18/2008
Number of Days to Update: 14

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 11/24/2008
Next Scheduled EDR Contact: 02/23/2009
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 09/30/2008
Date Data Arrived at EDR: 10/20/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 37

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/15/2009
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/15/2008
Date Data Arrived at EDR: 09/16/2008
Date Made Active in Reports: 10/01/2008
Number of Days to Update: 15

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 12/15/2008
Next Scheduled EDR Contact: 03/02/2009
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/31/2008
Date Data Arrived at EDR: 10/17/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 40

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 08/12/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 12

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 11/13/2008
Next Scheduled EDR Contact: 02/09/2009
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/01/2008
Date Data Arrived at EDR: 03/20/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 25

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 12/08/2008
Next Scheduled EDR Contact: 03/09/2009
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/14/2008
Date Data Arrived at EDR: 04/10/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 26

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 10/06/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 10

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 08/26/2008
Date Data Arrived at EDR: 09/11/2008
Date Made Active in Reports: 10/01/2008
Number of Days to Update: 20

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 12/11/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/04/2008
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/15/2008
Number of Days to Update: 17

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/27/2008
Next Scheduled EDR Contact: 01/26/2009
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 22

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 12/22/2008
Next Scheduled EDR Contact: 03/23/2009
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 12/22/2008
Next Scheduled EDR Contact: 03/23/2009
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/02/2008
Date Data Arrived at EDR: 09/16/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 13

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 12/02/2008
Next Scheduled EDR Contact: 03/02/2009
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/02/2008
Date Data Arrived at EDR: 09/17/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 12

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 12/02/2008
Next Scheduled EDR Contact: 03/02/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/02/2008	Source: Health Care Agency
Date Data Arrived at EDR: 09/25/2008	Telephone: 714-834-3446
Date Made Active in Reports: 10/01/2008	Last EDR Contact: 12/02/2009
Number of Days to Update: 6	Next Scheduled EDR Contact: 03/02/2009
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 07/23/2007	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 07/23/2007	Telephone: 530-889-7312
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 01/12/2009
Number of Days to Update: 17	Next Scheduled EDR Contact: 03/16/2009
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 11/06/2008	Source: Department of Public Health
Date Data Arrived at EDR: 11/17/2008	Telephone: 951-358-5055
Date Made Active in Reports: 11/26/2008	Last EDR Contact: 01/12/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 11/12/2008	Source: Health Services Agency
Date Data Arrived at EDR: 11/25/2008	Telephone: 951-358-5055
Date Made Active in Reports: 12/05/2008	Last EDR Contact: 01/12/2009
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/08/2008	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/08/2008	Telephone: 916-875-8406
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 10/29/2008
Number of Days to Update: 26	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 09/08/2008	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 10/29/2008	Telephone: 916-875-8406
Date Made Active in Reports: 11/26/2008	Last EDR Contact: 10/29/2008
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 10/01/2008
Date Data Arrived at EDR: 10/06/2008
Date Made Active in Reports: 10/13/2008
Number of Days to Update: 7

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 12/01/2008
Next Scheduled EDR Contact: 03/02/2009
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 07/16/2008
Date Data Arrived at EDR: 10/29/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/31/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 08/01/2007
Date Data Arrived at EDR: 02/05/2008
Date Made Active in Reports: 02/14/2008
Number of Days to Update: 9

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 12/02/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 08/07/2008
Date Data Arrived at EDR: 10/31/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 26

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/30/2008
Next Scheduled EDR Contact: 03/30/2009
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 12/01/2008
Next Scheduled EDR Contact: 03/02/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008	Source: Department of Public Health
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 10/01/2008	Last EDR Contact: 12/01/2008
Number of Days to Update: 12	Next Scheduled EDR Contact: 03/02/2009
	Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 08/26/2008	Source: Environmental Health Department
Date Data Arrived at EDR: 08/27/2008	Telephone: N/A
Date Made Active in Reports: 09/15/2008	Last EDR Contact: 01/12/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 11/19/2008	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 11/19/2008	Telephone: 650-363-1921
Date Made Active in Reports: 11/26/2008	Last EDR Contact: 01/05/2009
Number of Days to Update: 7	Next Scheduled EDR Contact: 04/06/2009
	Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 10/06/2008	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 10/07/2008	Telephone: 650-363-1921
Date Made Active in Reports: 10/13/2008	Last EDR Contact: 01/05/2009
Number of Days to Update: 6	Next Scheduled EDR Contact: 04/06/2009
	Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005	Source: Santa Clara Valley Water District
Date Data Arrived at EDR: 03/30/2005	Telephone: 408-265-2600
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 12/22/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 03/23/2009
	Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 09/24/2008	Source: Department of Environmental Health
Date Data Arrived at EDR: 09/25/2008	Telephone: 408-918-3417
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 12/22/2008
Number of Days to Update: 4	Next Scheduled EDR Contact: 03/23/2009
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 09/02/2008	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 09/04/2008	Telephone: 408-277-4659
Date Made Active in Reports: 09/18/2008	Last EDR Contact: 12/01/2008
Number of Days to Update: 14	Next Scheduled EDR Contact: 03/02/2009
	Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/22/2008	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 10/06/2008	Telephone: 707-784-6770
Date Made Active in Reports: 10/13/2008	Last EDR Contact: 01/05/2009
Number of Days to Update: 7	Next Scheduled EDR Contact: 03/23/2009
	Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/22/2008	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 10/17/2008	Telephone: 707-784-6770
Date Made Active in Reports: 12/05/2008	Last EDR Contact: 12/22/2008
Number of Days to Update: 49	Next Scheduled EDR Contact: 03/23/2009
	Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/20/2008	Source: Department of Health Services
Date Data Arrived at EDR: 10/20/2008	Telephone: 707-565-6565
Date Made Active in Reports: 11/26/2008	Last EDR Contact: 01/19/2009
Number of Days to Update: 37	Next Scheduled EDR Contact: 04/19/2009
	Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/04/2007	Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 05/04/2007	Telephone: 530-822-7500
Date Made Active in Reports: 05/24/2007	Last EDR Contact: 12/29/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 03/30/2009
	Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/27/2008
Date Data Arrived at EDR: 10/14/2008
Date Made Active in Reports: 11/26/2008
Number of Days to Update: 43

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/10/2008
Next Scheduled EDR Contact: 03/09/2009
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/18/2008
Number of Days to Update: 14

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/09/2008
Next Scheduled EDR Contact: 03/09/2009
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 10/01/2008
Date Data Arrived at EDR: 10/08/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 8

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/08/2009
Next Scheduled EDR Contact: 04/06/2009
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 08/11/2008
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/15/2008
Number of Days to Update: 17

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 06/15/2007
Date Made Active in Reports: 08/20/2007
Number of Days to Update: 66

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 12/11/2008
Next Scheduled EDR Contact: 03/09/2009
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 09/30/2007
Date Data Arrived at EDR: 12/04/2007
Date Made Active in Reports: 12/31/2007
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 11/07/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/21/2008
Date Data Arrived at EDR: 11/26/2008
Date Made Active in Reports: 12/11/2008
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/26/2008
Next Scheduled EDR Contact: 02/23/2009
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/11/2008
Date Made Active in Reports: 10/02/2008
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/08/2008
Next Scheduled EDR Contact: 03/09/2009
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 10/07/2008
Date Data Arrived at EDR: 10/10/2008
Date Made Active in Reports: 10/28/2008
Number of Days to Update: 18

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 12/15/2008
Next Scheduled EDR Contact: 03/16/2009
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/08/2008
Number of Days to Update: 17

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 01/05/2009
Next Scheduled EDR Contact: 04/06/2009
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services


Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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Barton/I-215 Interchange

Barton/I-215 Interchange

Grand Terrace, CA 92313

Inquiry Number: 2403170.2

January 21, 2009

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography January 21, 2009

Target Property:

Barton/I-215 Interchange

Grand Terrace, CA 92313

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1930	Aerial Photograph. Scale: 1"=666'	Flight Year: 1930	Fairchild
1938	Aerial Photograph. Scale: 1"=555'	Flight Year: 1938	Laval
1953	Aerial Photograph. Scale: 1"=555'	Flight Year: 1953	Southwestern
1966	Aerial Photograph. Scale: 1"=666'	Flight Year: 1966	Universe
1977	Aerial Photograph. Scale: 1"=666'	Flight Year: 1977	Teledyne
1989	Aerial Photograph. Scale: 1"=666'	Flight Year: 1989	USGS
1995	Aerial Photograph. Scale: 1"=666'	Flight Year: 1995	USGS
2002	Aerial Photograph. Scale: 1"=666'	Flight Year: 2002	USGS



INQUIRY #: 2403170.2

YEAR: 1930

| = 666'





INQUIRY #: 2403170.2

YEAR: 1938

| = 555'





INQUIRY #: 2403170.2

YEAR: 1953

| = 555'





INQUIRY #: 2403170.2

YEAR: 1966

| = 666'





INQUIRY #: 2403170.2

YEAR: 1977

| = 666'





INQUIRY #: 2403170.2

YEAR: 1989

| = 666'





INQUIRY #: 2403170.2

YEAR: 1995

| = 666'






INQUIRY #: 2403170.2

YEAR: 2002

| = 666'





Barton/I-215 Interchange

Barton/I-215 Interchange
Grand Terrace, CA 92313

Inquiry Number: 2403170.1s
January 21, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

1/21/09

Site Name:

Barton/I-215 Interchange
Barton/I-215 Interchange
Grand Terrace, CA 92313

Client Name:

Kleinfelder, Inc.
43174 Business Park Drive
Temecula, CA 92590

EDR Inquiry # 2403170.1s

Contact: Jen Grippa



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Kleinfelder, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Barton/I-215 Interchange
Address: Barton/I-215 Interchange
City, State, Zip: Grand Terrace, CA 92313
Cross Street:
P.O. # NA
Project: NA
Certification # B217-4DC2-BBF1



Sanborn® Library search results
Certification # B217-4DC2-BBF1

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Total Maps: 0

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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Barton/I-215 Interchange

Barton/I-215 Interchange

Grand Terrace, CA 92313

Inquiry Number: 2403170.3

January 23, 2009

The EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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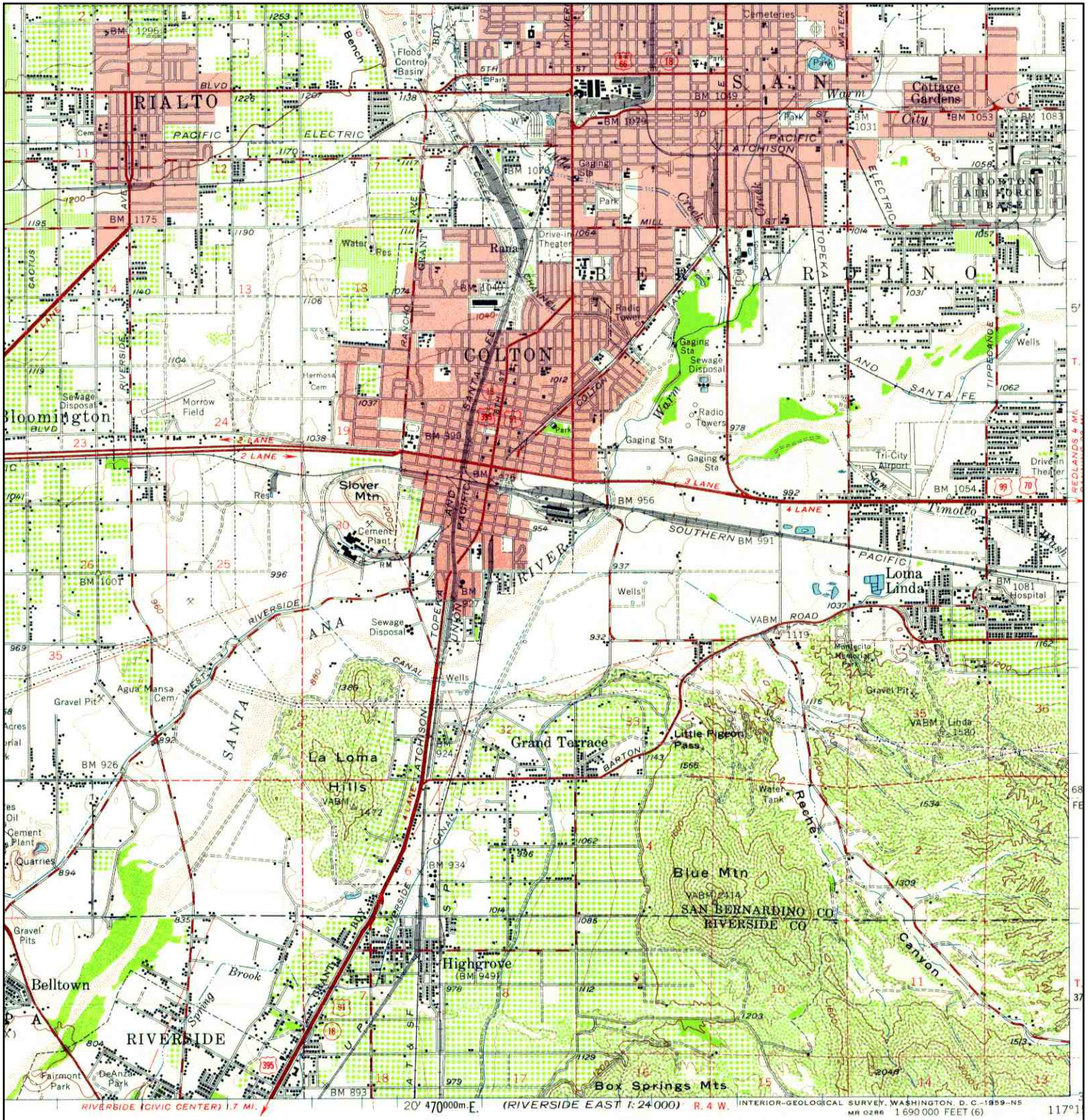
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Historical Topographic Map



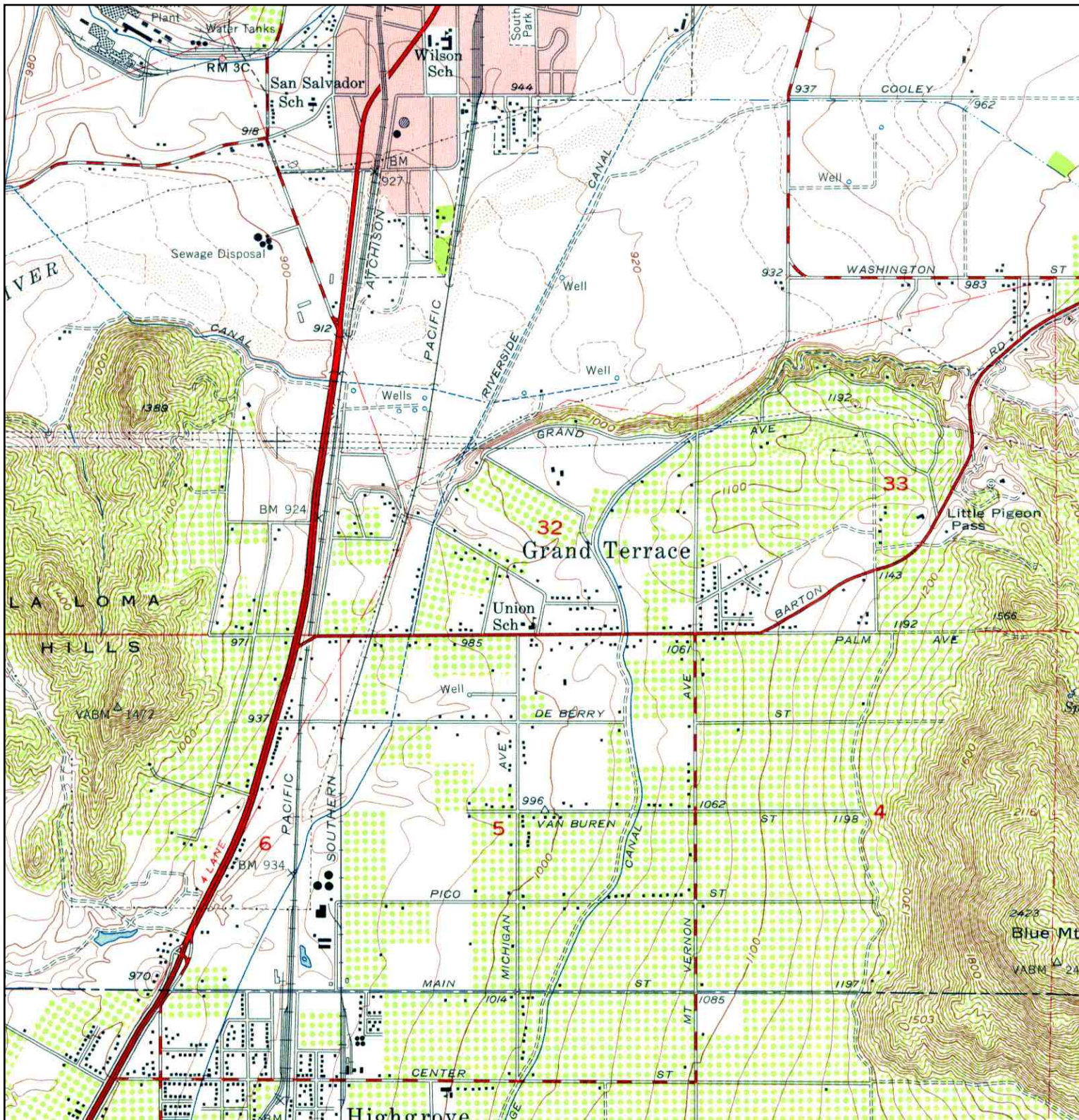
<p>N</p>	TARGET QUAD	SITE NAME:	Barton/I-215 Interchange	CLIENT:	Kleinfelder, Inc.
	NAME: SOUTHERN CA SHEET 1	ADDRESS:	Barton/I-215 Interchange	CONTACT:	Jen Grippa
	MAP YEAR: 1901	LAT/LONG:	Grand Terrace, CA 92313	INQUIRY#:	2403170.3
	REVISED FROM: 1902			RESEARCH DATE:	01/23/2009
	SERIES: 60				
	SCALE: 1:250000				

Historical Topographic Map



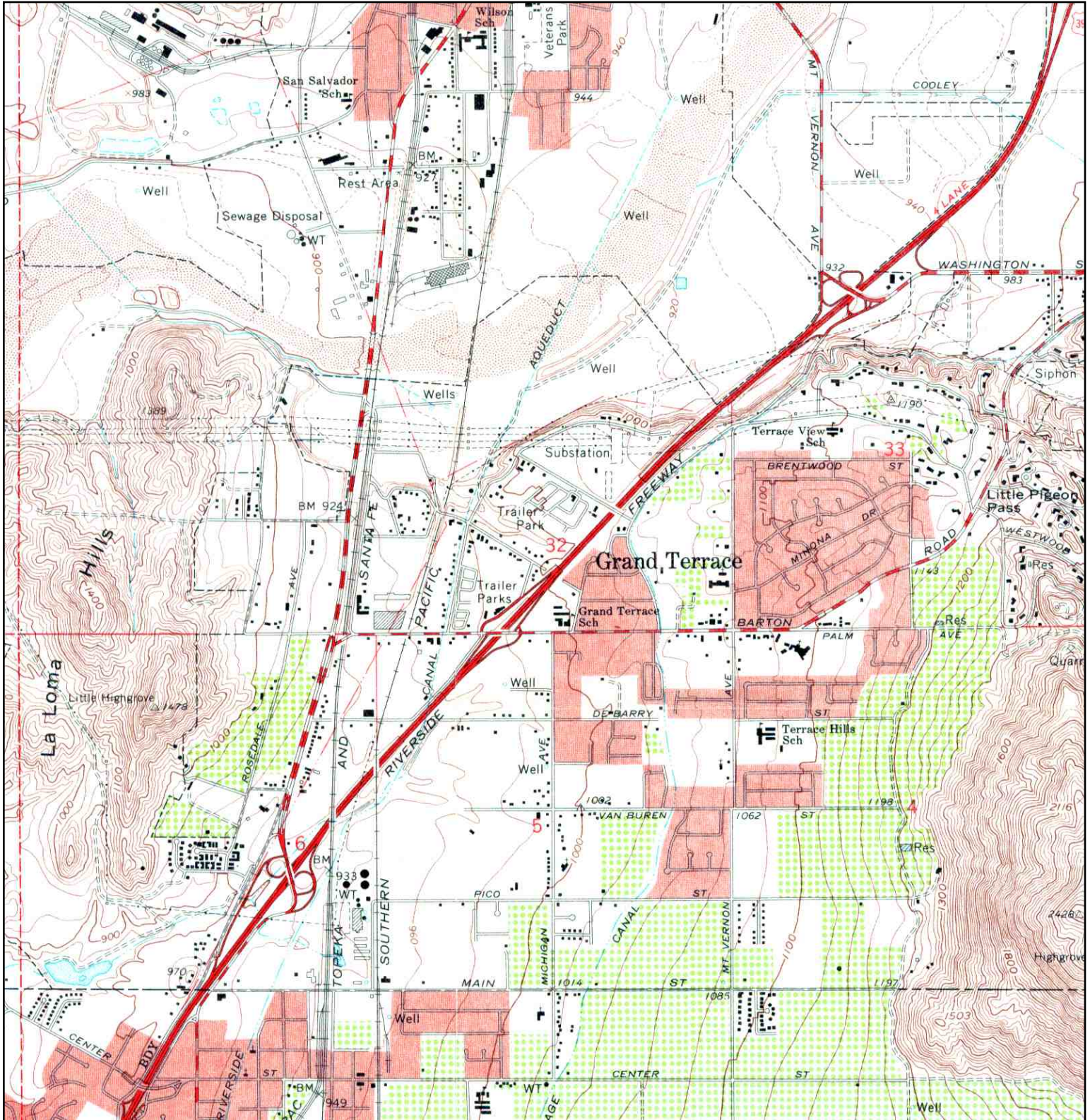
<p>N</p>	TARGET QUAD	SITE NAME:	Client:
	NAME: SAN BERNARDINO	ADDRESS: Barton/I-215 Interchange	CONTACT: Jen Grippa
	MAP YEAR: 1954	ADDRESS: Grand Terrace, CA 92313	INQUIRY#: 2403170.3
	SERIES: 15	LAT/LONG: /	RESEARCH DATE: 01/23/2009
	SCALE: 1:62500		


Historical Topographic Map



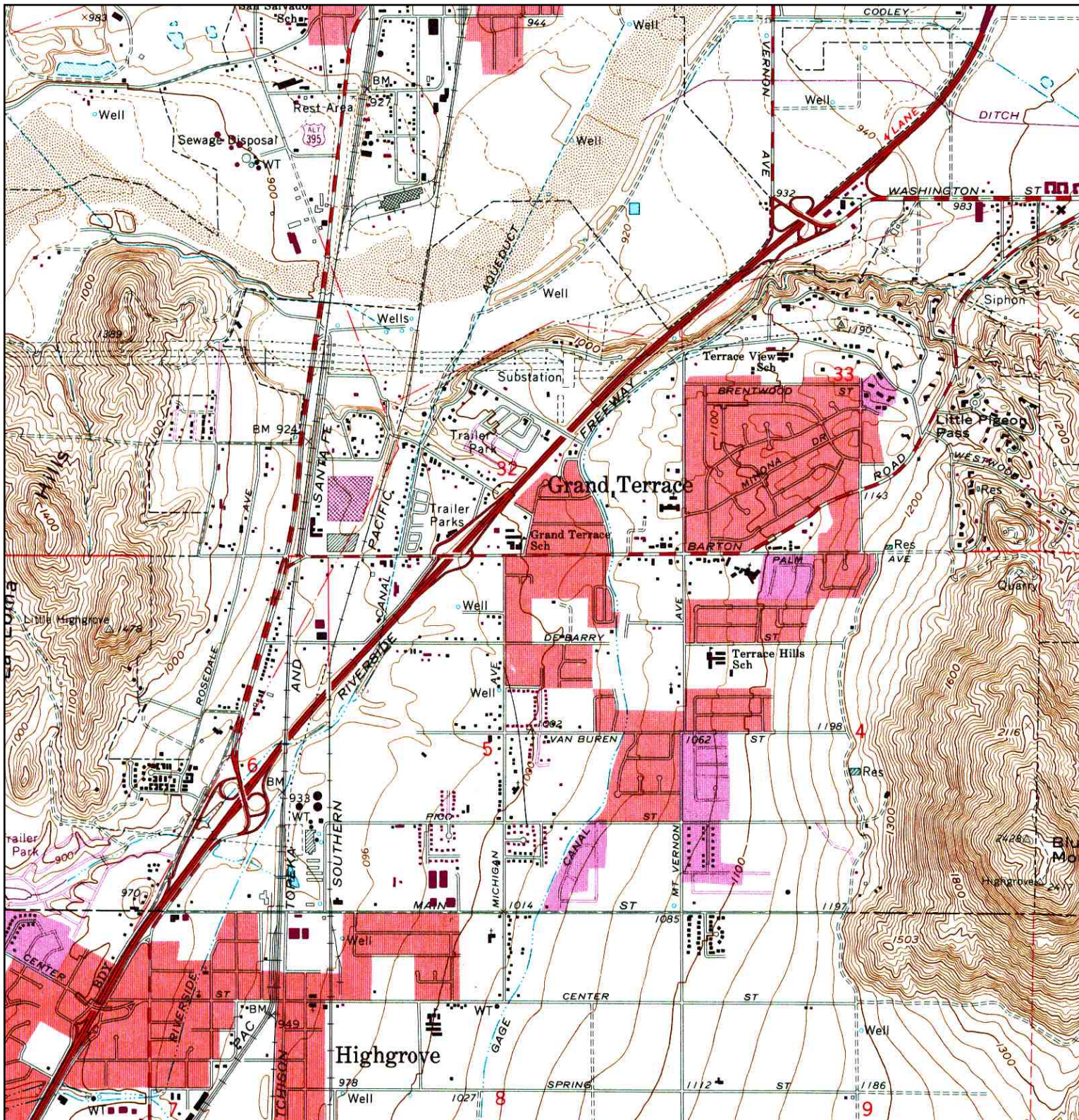
	TARGET QUAD	SITE NAME:	Barton/I-215 Interchange	CLIENT:	Kleinfelder, Inc.
	NAME: SAN BERNARDINO SOUTH	ADDRESS:	Barton/I-215 Interchange Grand Terrace, CA 92313	CONTACT:	Jen Grippa
	MAP YEAR: 1954	LAT/LONG:	/	INQUIRY#:	2403170.3
	SERIES: 7.5			RESEARCH DATE:	01/23/2009
	SCALE: 1:24000				


Historical Topographic Map



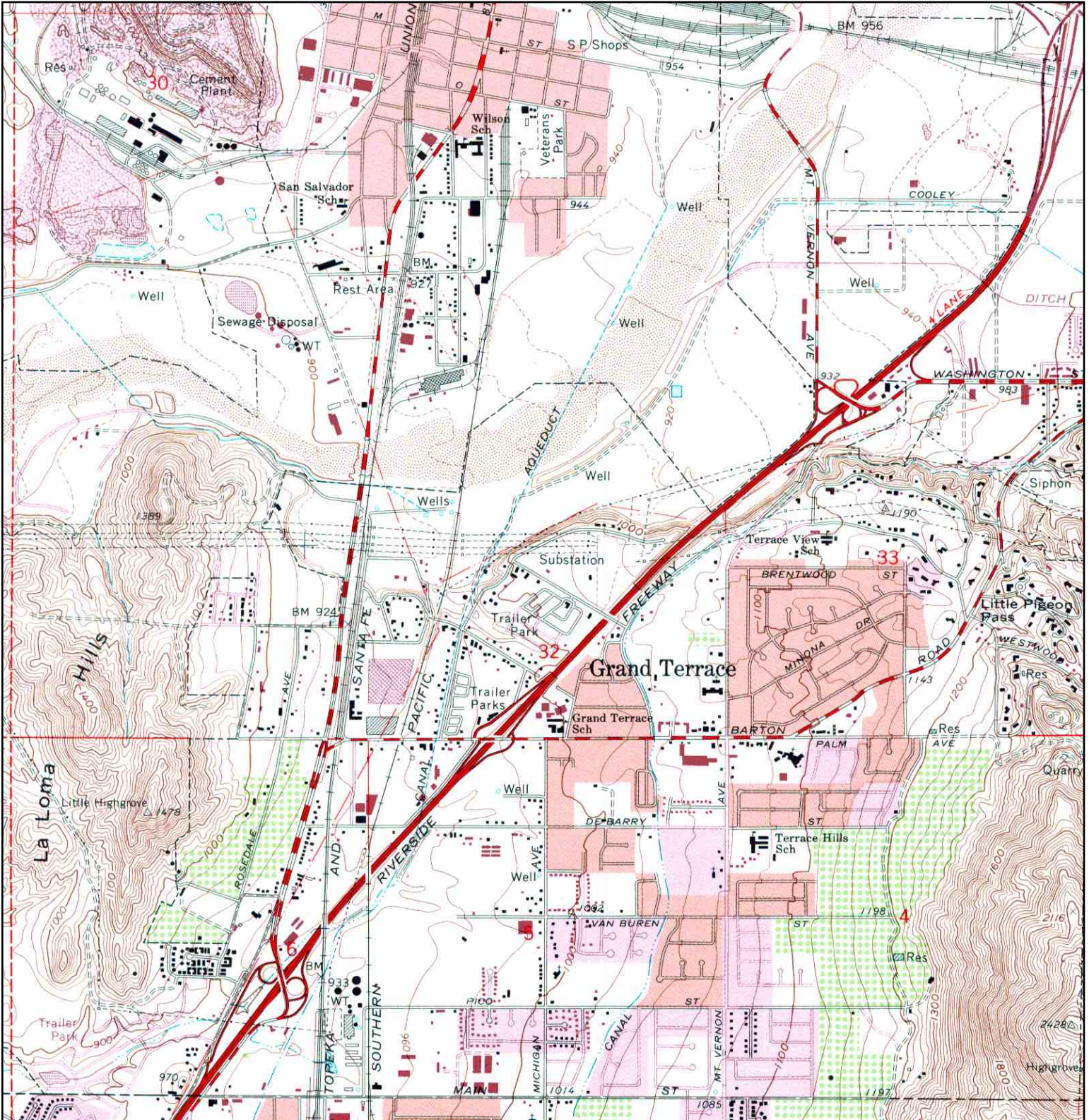
	TARGET QUAD	SITE NAME:	Barton/I-215 Interchange	CLIENT:	Kleinfelder, Inc.
	NAME: SAN BERNARDINO SOUTH	ADDRESS:	Barton/I-215 Interchange Grand Terrace, CA 92313	CONTACT:	Jen Grippa
	MAP YEAR: 1967	LAT/LONG:	/	INQUIRY#:	2403170.3
	SERIES: 7.5			RESEARCH DATE:	01/23/2009
	SCALE: 1:24000				

Historical Topographic Map



	TARGET QUAD	SITE NAME:	Barton/I-215 Interchange	CLIENT:	Kleinfelder, Inc.
	NAME: SAN BERNARDINO SOUTH	ADDRESS:	Barton/I-215 Interchange Grand Terrace, CA 92313	CONTACT:	Jen Grippa
	MAP YEAR: 1973	LAT/LONG:	/	INQUIRY#:	2403170.3
	PHOTOREVISED FROM: 1967			RESEARCH DATE:	01/23/2009
	SERIES: 7.5				
	SCALE: 1:24000				

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Barton/I-215 Interchange	CLIENT:	Kleinfelder, Inc.
	NAME: SAN BERNARDINO SOUTH	ADDRESS:	Barton/I-215 Interchange Grand Terrace, CA 92313	CONTACT:	Jen Grippa
	MAP YEAR: 1980	LAT/LONG:	/	INQUIRY#:	2403170.3
	PHOTOREVISED FROM: 1967			RESEARCH DATE:	01/23/2009
	SERIES: 7.5				
	SCALE: 1:24000				