Shell Oil Products US

February 3, 2006

Re: **Former Shell-branded Service Station**
318 S. Livermore Avenue
Livermore, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,
Shell Oil Products US

Denis L. Brown
Project Manager

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February 2, 2006
Project No. SJ31-8LI-P

Mr. Jerry Wickham
Environmental Health Services – Environmental Protection
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Additional Over-Excavation Report**
Former Shell Service Station
318 South Livermore Ave.
Livermore, California

Dear Mr. Wickham,

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared this report documenting the results of the recent additional soil over-excavation activities at the above-referenced site. Additional over-excavation activities were performed to remove previously identified lead impacted soil in order to meet Alameda County Health Care Services Agency (ACHCSA) approved cleanup goals. Investigative excavations were also performed to further asses the lateral extent of impacted soils.

BACKGROUND

The following sections present a brief description of the former service station and a brief summary of previous site soil and groundwater investigations.

SITE DESCRIPTION

The site is located on the eastern corner of South Livermore Avenue and Third Street in Livermore, California (Figure 1). The site was formerly the location of a Shell-branded service station. The former service station consisted of a building containing vehicle service bays and a small convenience store, five fuel dispensers, three 12,000-gallon fuel underground storage tanks (USTs), and one 550-gallon waste oil UST. The former station plan is presented on Figure 2.

PREVIOUS INVESTIGATIONS

Monitoring Wells MW-1 through MW-4 Installation

In March 1989, a sample of backfill material was collected from around the fill pipe of the regular leaded UST formerly located near the southern corner of the site (Figure 2). The sample was found to contain total petroleum hydrocarbons as gasoline (TPH-G) at 37,000 parts per million (ppm). Subsequently, the ACHCSA required that groundwater at the site be assessed. In May 1990, following UST replacement activities, four groundwater monitoring wells (MW-1 through MW-4) were installed adjacent to former site USTs (Figure 2). TPH-G was not detected in any of the soil samples collected from the borings for the monitoring wells. TPH-G and benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) were detected in groundwater samples collected from Wells MW-3 and MW-4. The highest concentration of TPH-G detected was 90 micrograms per liter (ug/l). The wells were monitored through 1995 when case closure was granted by the ACHCSA and the wells destroyed.

Monitoring Wells MW-5 through MW-8 Installation

In September 2001, IT Corporation installed four site groundwater monitoring wells (MW-5 through MW-8) as part of Shell's voluntary Groundwater Assessment Program (GRASP). Only one soil sample was collected from the borings for site wells. Sample MW-7 at 35 feet below grade (bg) was analyzed for TPH-G, BTEX compounds, and fuel oxygenates. All analytes tested were below the laboratory method detection limit. Fourteen groundwater sampling events have now been performed to date.

Fuel System Removal

In December 2003 and January 2004, site USTs, fuel dispensers and associated product piping, and the oil/water separator were removed. Delta collected soil samples during removal activities. Soil analytical results were presented to Mr. Paul M. Smith, Hazardous Materials Inspector for the Livermore – Pleasanton Fire Department in a report titled, *Underground Storage Tank, Product Piping, and Dispenser Removals Report,* dated January 16, 2004.

Analytical data indicated minimal petroleum hydrocarbon impact to soil beneath the site. TPH-G was detected in only one soil sample (4.9 milligrams per kilogram (mg/kg)). Benzene and methyl tertiary butyl ether (MTBE) were not detected in any soil sample. Tert-butanol (TBA) was detected in one soil sample at 0.016 mg/kg. Total lead, exceeding the California Department of Toxic Substances Preliminary Remediation Goal of 150 mg/kg, was detected in only one soil sample. Total lead was detected at 380 mg/kg in the soil sample collected at a depth of 2.5 feet beneath the eastern-most fuel dispenser island.

Lead Impacted Soil Excavation and Investigation

On May 4, 2005, Delta directed the excavation of soil in the area beneath the former eastern fuel dispenser (P1) island (Figure 2). Approximately 100 cubic yards of soil was removed during initial excavation activities. Two of the confirmation soil samples collected during the initial over-excavation activities resulted in total lead detections that were above the ACHCSA approved cleanup goal of 150 mg/kg.

On May 18, 2005, Delta directed the excavation of an additional 75 cubic yards of lead impacted soil (Figure 2). Three of the confirmation soil samples collected during the additional over-excavation activities contained lead above the ACHCSA approved cleanup goal. Lead impacts appeared to be limited to depths between 2 and 4 feet bg within a dark brown soil unit. The presence of concrete debris below grade

indicated that this portion of the site was underlain by fill materials to a depth of approximately 5 feet bg. Shell concluded that the lead impacts appeared to be associated with the fill material.

On June 7, 2005, Delta directed the excavation of six (PH-1 through PH-6) investigative excavations ("potholes") in order to laterally define the extent of lead impacted soils and fill materials (Figure 2). Concrete debris was observed in two potholes, and one sample (PH-4) resulted in a total lead detection that was above the ACHCSA approved cleanup goal. Shell recommended over-excavation of approximately an additional 250 cubic yards at the site in order to address the lead impacted soils observed at PH-4 (Figure 2). Excavation activities were proposed in Delta's *Soil and Groundwater Investigation and Over-Excavation Report* dated July 11, 2005.

Soil and Groundwater Investigation

On June 2 and 3, 2005, Delta directed the advancement of three soil borings, B-1 through B-3 (Figure 2). Borings B-1 and B-3 were located southwest of the former fuel dispenser islands, adjacent to South Livermore Avenue. Boring B-2 was located in the footprint of the pre-1989 UST complex, in the approximate area of the former leaded gasoline UST.

Lead was detected in all retained soil samples at concentrations ranging from 3.8 to 17 mg/kg, well below the cleanup goal of 150 mg/kg. No other analytes were detected in soil samples. A summary of soil boring analytical results is included in Table 1.

One groundwater sample was collected from Boring B-2 at a depth of approximately 25 feet bg. Two depth discrete groundwater samples were collected from each Boring B-1 and B-3 within coarse-grained sand and gravel materials (approximately 30 feet bg) and within the depth interval (36 to 55 feet bg) that is screened by existing site wells. Depth discrete groundwater samples collected from Borings B-1 and B-3 contained concentrations of TPH-G, BTEX compounds, MTBE, 1,2-DCA and total lead (maximum concentration = TPH-G at 240 ug/l). The grab groundwater sample from Boring B-2 only contained total lead (0.56 ug/l). Groundwater analytical results and sample depth intervals are summarized on Table 2.

Monitoring Well MW-9 Installation

In September 2005, Delta installed one site well (MW-9) in order to monitor groundwater encountered within the coarse-grained unit encountered between 28 to 32 feet bg. The location of Well MW-9 is shown on Figure 2. Seven soil samples were retained for lab analysis. All soil samples were analyzed for TPH-G, BTEX compounds, MTBE, TBA, 1,2-DCA, and EDB by EPA Method 8260B, and for total lead by EPA Method 6010B. Lead was detected in all seven soil samples at concentrations ranging from 5 mg/kg to 12 mg/kg. All other analytes tested were below the laboratory method detection limit. One quarterly groundwater sampling event (October 7, 2005) has been performed since installation of Well MW-9.

Groundwater Monitoring and Sampling

Fifteen groundwater sampling events have now been performed to date. The ACHCSA recently approved a reduction in sampling frequency from quarterly to semi-annually for Wells MW-5 through MW-8. Well MW-9 will be sampled quarterly for one year beginning with the fourth quarter 2005 event. A summary of historic groundwater monitoring data is provided as Attachment A. Groundwater beneath the site typically fluctuates by about 8 to 10 feet annually, and the predominant groundwater gradient is towards the west at approximately 0.02 feet/feet.

Low-level concentrations of TPH-G, BTEX compounds, and MTBE have been detected primarily in downgradient Wells MW-7, MW-8, and MW-9. Low-level (≤ 260 ug/l) concentrations of TPH-G and BTEX compounds were detected once in groundwater samples collected from all site wells on November 13, 2003.

MTBE, diisopropyl ether (DIPE), and TBA are the fuel oxygenates that have been detected in groundwater. The maximum concentration of MTBE detected in groundwater over the last four sampling events is 12 ug/l (Well MW-9, September 23, 2005). DIPE has only been detected once, in the October 25, 2002 sample from Well MW-8 at 3.3 ug/l. TBA was detected for the first time in the September 23, 2005 sample from Well MW-9 at a concentration of 14 ug/l. Groundwater samples from Wells MW-5 through MW-8 have been analyzed for lead scavengers, 1,2-Dichloroethane (1,2-DCA) and 1,2-Dibromoethane (EDB) three times (during fourth quarter 2004, second and fourth quarter 2005). EDB has not been detected in any groundwater sample. 1,2-DCA was detected once in Well MW-8 at 3.2 ug/l (November 11, 2004), three times in Well MW-7 at a maximum concentration of 2.3 ug/l (November 11, 2004), and twice in Well MW-9 at a maximum concentration of 1.3 ug/l.

ADDITIONAL LEAD IMPACTED SOIL EXCAVATION AND INVESTIGATION

The following sections summarize additional lead impacted soil excavation and investigation activities conducted at the site and approved by the ACHCSA. The ACHCSA, in their letter to Shell dated July 18, 2005, approved the additional over-excavation activities.

INVESTIGATIVE EXCAVATIONS (PH-7 THROUGH PH-14)

Previous site excavation activities indicated that at least portions of the site were underlain by fill materials to a depth of approximately 5 feet bg, and that lead impacts appeared to be limited to depths between approximately 2 and 4 feet bg within a dark brown soil unit. The lateral extent of lead impacted soil was not fully defined.

On August 8, 2005, Delta directed the excavation of an additional eight investigative "potholes" (PH-7 through PH-14), primarily to confirm the lateral extent of lead impacted soils in the southwest portion of the site. Each pothole was approximately 5 feet long by 5 feet wide and 5 feet deep. Concrete debris was observed by Delta in Potholes PH-9 and PH-11. Pothole locations are shown on Figure 2.

Delta collected eleven soil samples (PH-7@3.0' through PH-14B@2.5') from the pothole sidewalls at depths ranging from 2.5 to 7 feet bg. Sidewall samples were collected within a dark brown, undulating soil layer encountered approximately 2 and 3 feet bg. Soil samples, with the exception of PH-7@7.0', were collected by pushing a brass tube into sidewall soils. Soil sample PH-7@7.0' was collected by pushing a brass tube into soil that was brought to the surface within the excavator bucket. The brass tube was then removed, sealed with Teflon sheeting and tight fitting plastic end caps, and clearly labeled. Samples were placed on ice for transportation to a certified testing laboratory for analysis. Soil samples were analyzed at Kiff Analytical LLC in Davis, California for total lead by EPA Method 6010B.

Lead was detected in all eleven soil samples. Concentrations were well below the ACHCSA approved cleanup goal for lead. Soil analytical results are summarized in Table 1 and are shown on Figure 2. Chain of custody documentation and certified laboratory analytical reports are included as Attachment B.

LEAD IMPACTED SOIL EXCAVATION (AUGUST 9, 2005)

Soil confirmation samples from the northeast and northwest walls of the May 18, 2005 excavation did not meet the ACHCSA approved cleanup goal for lead. Additionally, the June 7, 2005 investigative Pothole PH-4 contained an elevated lead level (1,040 mg/kg). In order to remediate impacted soils, Delta directed excavation of soil northeast and northwest of the May 18, 2005 excavation, extending past Pothole PH-4. Excavation activities were conducted on August 9, 2005, and excavation limits are shown on Figure 3.

Over-excavation soil confirmation sampling was observed by Mr. Jerry Wickham of the ACHCSA on August 9, 2005. Delta collected eleven soil samples (SS-1@2.5' through SS-11@6') from the bottom and sidewalls of the excavation at depths ranging from 2.5 to 6 feet bg. Sample locations are shown on Figure 3. Approximately 275 cubic yards of soil was over-excavated. Sidewall samples were collected within a dark brown, undulating soil layer between approximately 2 and 3 feet bg. Soil samples SS-8@6' and SS-11@6' were collected by pushing a brass tube into soil that was brought to the surface from the base of the excavation within the excavator bucket. All other soil samples were collected by pushing a brass tube into sidewall soils. The brass tubes were sealed with Teflon sheeting and a tight fitting plastic end caps, and clearly labeled. Samples were placed on ice for transportation to a certified testing laboratory for analysis. Soil samples were analyzed at Severn Trent Laboratories, Inc. (STL) in Pleasanton, California for total lead by EPA Method 6010B.

Lead was detected in all eleven soil samples. Only two samples (SS-3@2.5' and SS-4@2.5') resulted in a total lead detection that was above the ACHCSA approved cleanup goal. The total lead concentrations in Sample SS-3@2.5' and SS-4@2.5' were 480 mg/kg and 340 mg/kg, respectively. Soil analytical results are summarized in Table 1. Chain of custody documentation and certified laboratory analytical reports are included as Attachment C.

LEAD IMPACTED SOIL EXCAVATION (OCTOBER 24, 2005)

Based on the continued presence of elevated lead concentrations in soil (above ACHCSA cleanup goal) from the August 9, 2005 excavation, further over-excavation was determined to be warranted by Shell and the ACHCSA. On October 24, 2005, Delta directed over-excavation of soil extending from the northern corner and the southwest sidewall of the August 9, 2005 excavation. Excavation limits are shown on Figure 2.

Delta collected eleven soil samples (SS-12@1.8FT through SS-22@2.0FT) from the bottom and sidewalls of the excavation at depths ranging from 1.8 to 5.5 feet bg. Sample locations are shown on Figure 2. Approximately 150 cubic yards of soil was over-excavated. Sidewall samples were collected within a dark brown, undulating soil layer at approximately 2 feet bg. Soil Samples SS-16@5.5FT, SS-17@5.5FT, and SS-18@5.5FT were collected by pushing a brass tube into soil that was brought to the surface from the base of the excavation within the excavator bucket. All other soil samples were collected by pushing a brass tube into sidewall soils. The brass tubes were sealed with Teflon sheeting and a tight fitting plastic end caps, and clearly labeled. Samples were placed on ice for transportation to a certified testing laboratory for analysis. Soil samples were analyzed at STL in Pleasanton, California for total lead by EPA Method 6010B.

During excavation activities, an elevated photoionization detector (PID) reading (530 parts per million by volume) was detected in soil from the location of Sample SS-19. Additional soil was subsequently over-excavated southeast of Sample SS-19, and confirmation Sample SS-21 was collected from the extended sidewall. In addition to total lead, soil Samples SS-19@2.1FT and SS-21@2.1FT were also analyzed for

TPH-G; BTEX compounds; the five fuel oxygenates: MTBE, DIPE, ETBE, TAME, and TBA; EDB; and 1,2-DCA by EPA Method 8260B.

Lead was detected in all eleven soil samples. Two samples (SS-13@2.0FT and SS-21@2.0FT) contained total lead concentrations of 480 mg/kg and 170 mg/kg, respectively - above the ACHCSA approved cleanup goal. Sample SS-19@2.1FT contained TPH-G at a concentration of 2,000 mg/kg, ethylbenzene at a concentration of 3.1 mg/kg, and xylenes at a concentration of 24 mg/kg. The impacted soil was over-excavated and confirmation sample SS-21@2.1FT was collected from the sidewall. Total lead was detected in Sample SS-21@2.1FT at a concentration of 170 mg/kg – above the ACHCSA approved cleanup goal. All other analytes tested in Sample SS-21@2.1FT were below the laboratory reporting limits. Soil analytical results are summarized in Table 1 and are shown on Figure 2. Chain of custody documentation and certified laboratory analytical reports are included as Attachment C.

SOIL STOCKPILES

Delta previously collected two soil composite samples (Composite A,B,C,D and Composite E,F,G) from the stockpiles generated during the May 4 and 18, 2005 over-excavation activities. Chain of custody documentation and certified laboratory analytical reports for composite samples were previously submitted in Delta's *Soil and Groundwater Investigation and Over-Excavation Report* dated July 11, 2005.

Using laboratory analytical data from pothole samples (PH-7 through PH-13) in conjunction with the previous composite sample results, Delta profiled the soil stockpiles generated in August and October 2005 to Forward Landfill (Forward) in Manteca, California for waste acceptance. A total of approximately 425 cubic yards of stockpiled soil was transported to Forward for disposal on August 10, October 28, and October 31, 2005.

SUMMARY AND CONCLUSIONS

The detection of lead impacts in site soils appears to be sporadic, and continues to be limited to shallow depths (< 3 feet bg).

- Only one out of six samples collected beneath the dispensers and product piping at depths between 2.5 and 8.3 feet bg during fuel system removal activities in December 2003 contained an elevated lead concentration (>150 mg/kg).
- Only one out of seventeen "pothole" soil samples collected across the site contained an elevated lead concentration (>150 mg/kg).
- A total of ten out of twenty-nine sidewall samples collected during over-excavation activities conducted between May and October 2005 have contained elevated lead concentrations (>150 mg/kg).

Recent investigative "pothole" excavations indicate that lead impacted soils do not exist in the southern portion of the site. Additionally, Pothole PH-14, located in the northwestern portion of the site (near the former waste oil UST) did not encounter lead impacted soils.

Petroleum hydrocarbon impacts encountered in soil located in the vicinity of Sample SS-19@2.1FT (adjacent to the former eastern fuel dispenser island) appear to have been successfully remediated through over-excavation as shown by confirmation Sample SS-21@2.1FT.

Only two soil samples with lead detections above the ACHCSA approved cleanup goal remain in site soils. The lead detection in Sample SS-21@2.1FT (170 mg/kg) is just above the cleanup goal.

RECOMMENDATIONS

Delta recommends researching site-use history prior to proceeding with any further over-excavation activities. Background information on previous site use may allow the apparent sporadic nature of lead detections on-site to be better understood, and more effectively remediated.

REMARKS

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.

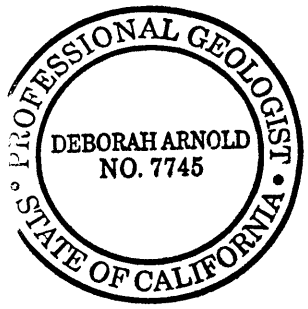
If you have any questions regarding this site, please contact Debbie Arnold (Delta) at (408) 826-1873 or Denis Brown (Shell) at (707) 865-0251.

Sincerely,

Delta Environmental Consultants, Inc.

Heather Buckingham
Senior Staff Geologist

Debbie Arnold
Project Manager
PG 7745



ATTACHMENTS:

Table 1 – Summary of Soil Analytical Data
Table 2 – Summary of Groundwater Analytical Data
Figure 1 – Site Location and Well Survey Map
Figure 2 – Pothole Location Map
Figure 3 – Over-Excavation and Soil Sampling Map

Attachment A – Well Concentrations Table (Blaine)
Attachment B – Laboratory Certified Analytical Results and Chain-of-Custody Documentation for Investigative "Potholes"
Attachment C – Laboratory Certified Analytical Results and Chain-of-Custody Documentation for Over-Excavation Soil Sampling

cc: Denis Brown, Shell Oil Products US, Carson
Betty Graham, RWQCB, Oakland
Chris Davidson, Redevelopment Agency, City of Livermore, Livermore
Paul Smith, Livermore-Pleasanton Fire Department, Pleasanton

Tables and Figures

Table 1
Summary of Soil Analytical Data
Pothole and Over-Excavation Samples
Former Shell Service Station
318 South Livermore Avenue, Livermore, California

Sample Designation	Date Sampled	Depth (feet)	**TPH-G** (mg/kg)	**Benzene** (mg/kg)	**Toluene** (mg/kg)	**Ethyl-benzene** (mg/kg)	**Xylene** (mg/kg)	**MTBE** (mg/kg)	**EDB** (ug/kg)	**1,2-DCA** (mg/kg)	**Lead** (mg/kg)
Over-Excavation Confirmation Samples											
S-1 @ 5 FEET	5/4/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**3.4**
S-2 @ 5 FEET	5/4/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**3.4**
S-3 @ 5 FEET	5/4/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**11**
S-4 @ 5 FEET	5/4/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**8**
S-5@10'	5/4/2005	10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**4.4**
S-6@10'	5/4/2005	10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**3.2**
S-7@3.5'	5/4/2005	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**560**
S-8@3.25'	5/4/2005	3.25	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**390**
S-9@3.0'	5/4/2005	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**84**
S-10@3.5'	5/4/2005	3.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**6.5**
S-11@2.5'	5/4/2005	2.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**76**
S-12@2.5'	5/4/2005	2.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**140**
S-13 @ 6 ft	5/18/2005	6	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**3.23**
S-14 @ 2.8 ft	5/18/2005	2.8	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**474**
S-15 @ 1.9 ft	5/18/2005	1.9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**313**
S-16 @ 3 ft	5/18/2005	3	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**49.9**
S-17 @ 1.9 ft	5/18/2005	1.9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**202**
S-18 @ 5 ft	5/18/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**5.02**
SS-1@2.5'	8/9/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**4.3**
SS-2@3'	8/9/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**5.1**
SS-3@2.5'	8/9/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**480**
SS-4@2.5'	8/9/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**340**
SS-5@2.5'	8/9/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**76**
SS-6@3'	8/9/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**49**
SS-7@3'	8/9/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**89**
SS-8@6'	8/9/2005	6	NA	NA	NA	NA	NA	NA	NA	NA	**3.7**
SS-9@6'	8/9/2005	6	NA	NA	NA	NA	NA	NA	NA	NA	**3.6**
SS-10@6'	8/9/2005	6	NA	NA	NA	NA	NA	NA	NA	NA	**4.2**
SS-11@6'	8/9/2005	6	NA	NA	NA	NA	NA	NA	NA	NA	**3.7**
SS-12@1.8FT	10/24/2005	1.8	NA	NA	NA	NA	NA	NA	NA	NA	**14**
SS-13@2.0FT	10/24/2005	2	NA	NA	NA	NA	NA	NA	NA	NA	**480**
SS-14@2.0FT	10/24/2005	2	NA	NA	NA	NA	NA	NA	NA	NA	**27**

Table 1
Summary of Soil Analytical Data
Pothole and Over-Excavation Samples
Former Shell Service Station
318 South Livermore Avenue, Livermore, California

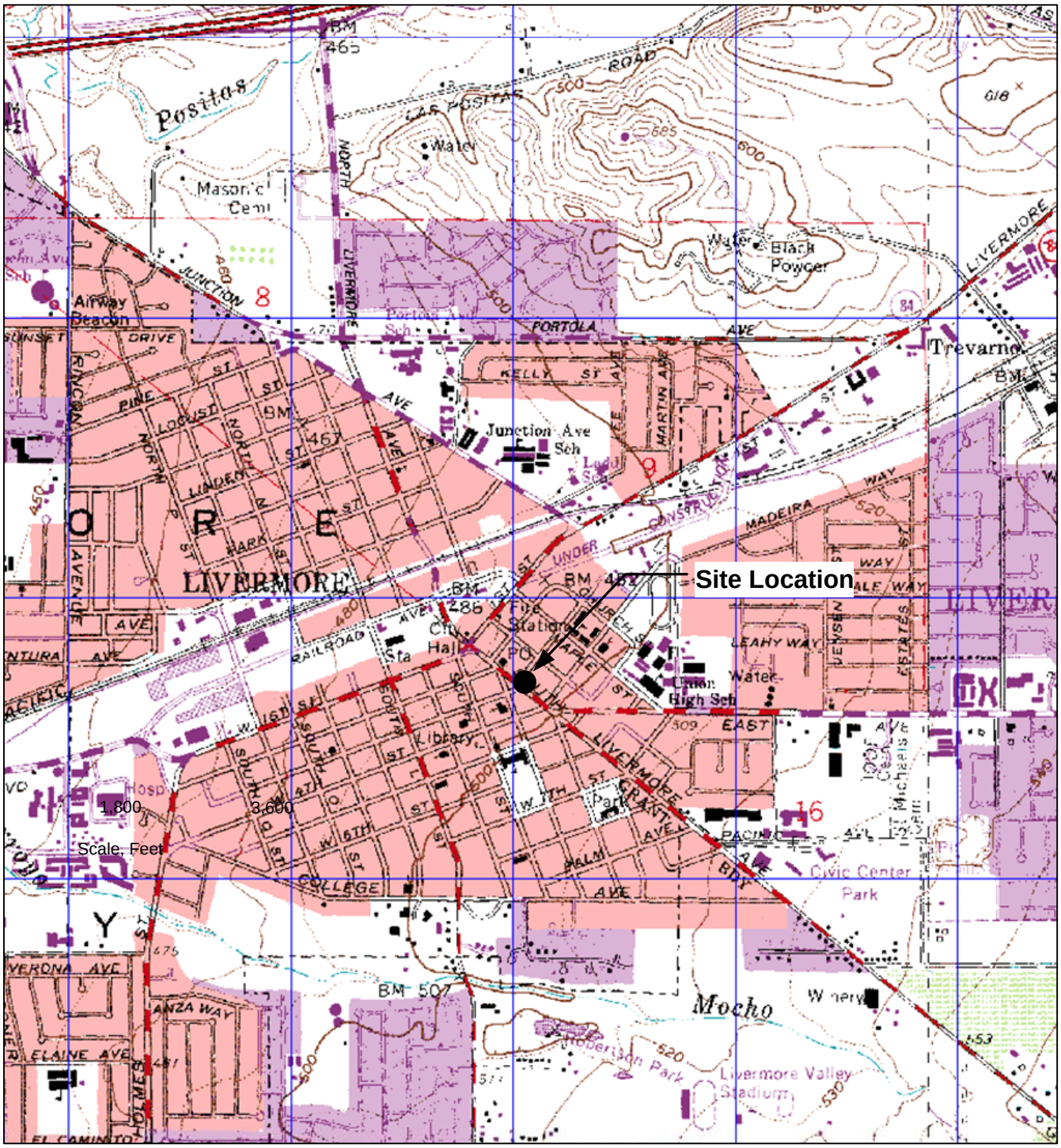
Sample Designation	Date Sampled	Depth (feet)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	EDB (ug/kg)	1,2-DCA (mg/kg)	Lead (mg/kg)
Over-Excavation Confirmation Samples (Continued)											
SS-15@2.0FT	10/24/2005	2	NA	NA	NA	NA	NA	NA	NA	NA	**110**
SS-16@5.5FT	10/24/2005	5.5	NA	NA	NA	NA	NA	NA	NA	NA	**6.6**
SS-17@5.5FT	10/24/2005	5.5	NA	NA	NA	NA	NA	NA	NA	NA	**3.7**
SS-18@5.5FT	10/24/2005	5.5	NA	NA	NA	NA	NA	NA	NA	NA	**3.7**
SS-19@2.1FT	10/24/2005	2.1	**2,000**	<0.5	<0.5	**3.1**	**24**	<0.5	<500	<0.5	**150**
SS-20@1.9FT	10/24/2005	1.9	NA	NA	NA	NA	NA	NA	NA	NA	**7.8**
SS-21@2.1FT	10/24/2005	2.1	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	**170**
SS-22@2.0FT	10/24/2005	2	NA	NA	NA	NA	NA	NA	NA	NA	**7.2**
Pothole Soil Samples											
PH-1@2.5'	6/7/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**12.3**
PH-2@3'	6/7/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**4.62**
PH-3@2.5'	6/7/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**4.97**
PH-4@3'	6/7/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**1,040**
PH-5@2'	6/7/2005	2	NA	NA	NA	NA	NA	NA	NA	NA	**5.09**
PH-6@5'	6/7/2005	5	NA	NA	NA	NA	NA	NA	NA	NA	**5.21**
PH-7@3.0'	8/8/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**3.62**
PH-7@5.0'	8/8/2005	5	NA	NA	NA	NA	NA	NA	NA	NA	**2.79**
PH-7@7.0'	8/8/2005	7	NA	NA	NA	NA	NA	NA	NA	NA	**13.3**
PH-8@3.0'	8/8/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**4.68**
PH-9@3.0'	8/8/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**8.87**
PH-10@2.5'	8/8/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**5.72**
PH-11@2.5'	8/8/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**4.89**
PH-12@3.0'	8/8/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**3.7**
PH-13@3.0'	8/8/2005	3	NA	NA	NA	NA	NA	NA	NA	NA	**3.06**
PH-14@5.0'	8/8/2005	5	NA	NA	NA	NA	NA	NA	NA	NA	**7.73**
PH-14B@2.5'	8/9/2005	2.5	NA	NA	NA	NA	NA	NA	NA	NA	**5**

Notes:
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
TPH-G = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
NA = not analyzed
EDB = Ethylene Dibromide
1,2-DCA = 1,2-Dichloroethane
sample over-excavated

Table 2
Summary of Groundwater Analytical Data
Borings B-1 through B-3
Former Shell Service Station
318 South Livermore Avenue, Livermore, California

Sample Designation	Date Sampled	Sample Interval (feet)	**TPH-G** (ug/l)	**Benzene** (ug/l)	**Toluene** (ug/l)	**Ethyl-benzene** (ug/l)	**Xylene** (ug/l)	**MTBE** (ug/l)	**TBA** (ug/l)	**EDB** (ug/l)	**1,2-DCA** (ug/l)	**Lead** (ug/l)
Groundwater Grab Samples												
B-1@30'	6/2/2005	29-30	**83**	**8.4**	**1.1**	**1.1**	**2.9**	**1.5**	<5.0	<0.02	<0.5	**0.21**
B-1@40.5'	6/3/2005	38-40.5	**130**	<0.5	<0.5	<0.5	<1	**5**	<5.0	<0.02	**81**	**0.12**
B-2@25'	6/2/2005	25	<50	<0.5	<0.5	<0.5	<1	<0.5	<5.0	<0.02	<0.5	**0.56**
B-3@31'	6/3/2005	29.5-31	**240**	**2.4**	<0.5	**0.73**	<1	**2**	<5.0	<0.02	**0.64**	NA
GRAB B-3@31'	6/3/2005	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.094**
HYDROPUNCH B-3@31'	6/3/2005	29.5-31	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.22**
B-3@51'	6/3/2005	49-51	<50	<0.5	<0.5	<0.5	<1	<0.5	<5.0	<0.02	<0.5	**0.032**

Notes:
ug/l = micrograms per liter
NA = not analyzed
TPH-G = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether
TBA = Tert-butanol
EDB = Ethylene Dibromide
1,2-DCA = 1,2-Dichloroethane
Sample GRAB B-3@31' was collected in case Sample HYDROPUNCH B-3@31' did not contain a sufficient amount of groundwater for lead analysis



North

GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

0 1,800 3,600
Scale, Feet

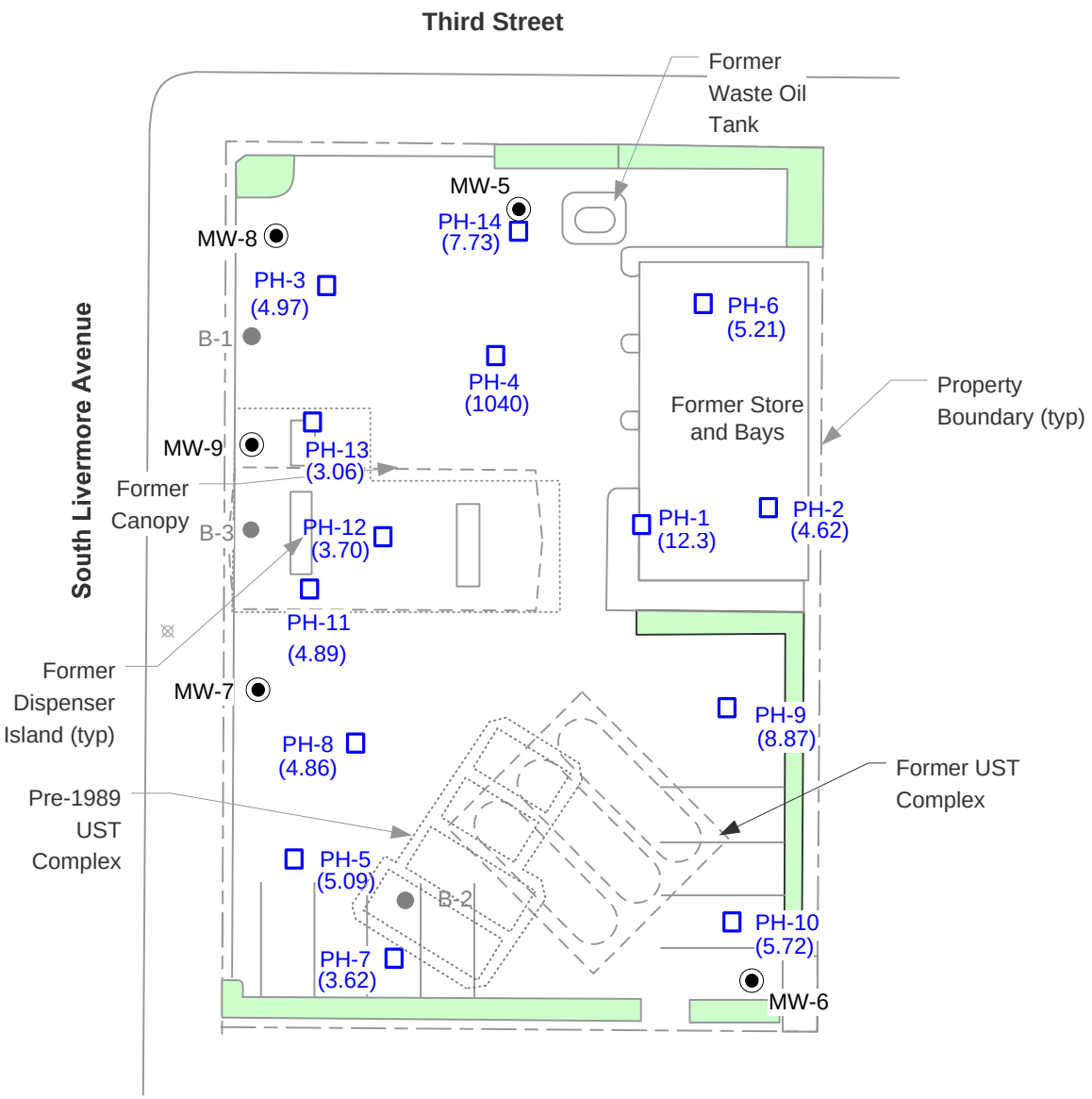
FIGURE 1

SITE LOCATION MAP

FORMER SHELL-BRANDED SERVICE STATION
318 South Livermore Avenue
Livermore, CA

PROJECT NO. SJ31-8LI-1.2005	DRAWN BY VF 9/25/03
FILE NO. SJ31-8LI-1.2005	PREPARED BY VF
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

PH-6 **POTHOLE LOCATION AND DESIGNATION**

(35) **LEAD CONCENTRATION (PPM)**

B-2 **SOIL BORING (JUNE 2005)**

MW-6 **EXISTING GROUNDWATER MONITORING WELL**

0 30 FT

APPROX. SCALE

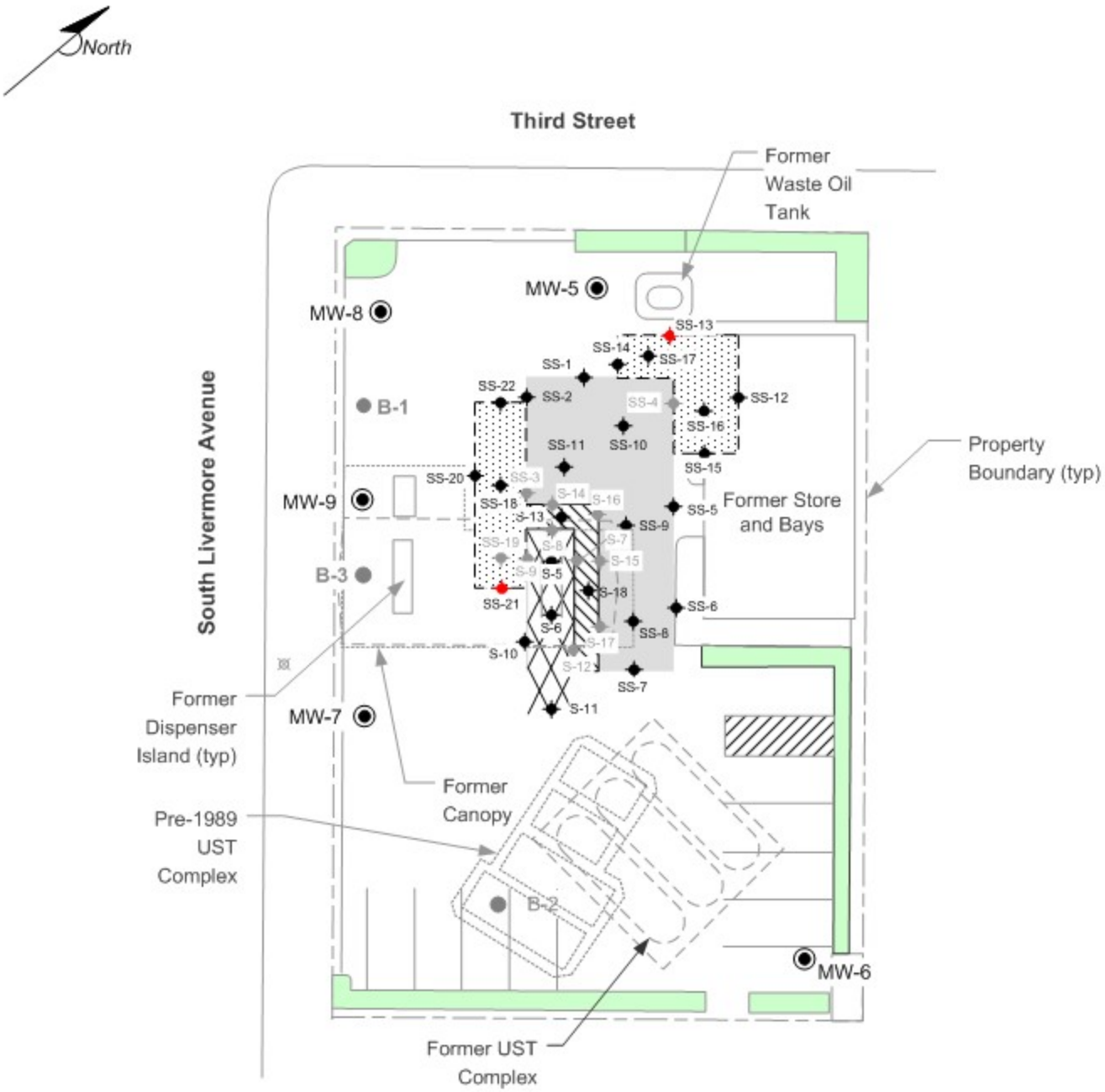
FIGURE 2

POTHOLE LOCATION MAP

FORMER SHELL-BRANDED SERVICE STATION
318 South Livermore Avenue
Livermore, California

PROJECT NO. SJ31-8LI-1.2006	DRAWN BY JL 01/23/06
FILE NO. SJ31-8LI-2006	PREPARED BY JL
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND

- S-19 — **SOIL SAMPLE - ELEVATED LEAD CONCENTRATION (> 150 PPM)**
- S-7 — **OVER-EXCAVATED SOIL SAMPLE**
- S-13 — **SOIL SAMPLE - LEAD CONCENTRATION (< 150 PPM)**
- **EXCAVATION AREA (5-4-05)**
- **EXCAVATION AREA (5-18-05)**
- **EXCAVATION AREA (8-9-05)**
- **EXCAVATION AREA (10-24-05)**
- B-2 — **SOIL BORING (JUNE 2005)**
- MW-6 — **EXISTING GROUNDWATER MONITORING WELL**

0 30 FT

APPROX. SCALE

FIGURE 3

OVER-EXCAVATION AND SOIL SAMPLING MAP

FORMER SHELL-BRANDED SERVICE STATION
318 South Livermore Avenue
Livermore, California

PROJECT NO. SJ31-8LI-1.2006	DRAWN BY JL 01/29/06
FILE NO. SJ31-8LI-2006	PREPARED BY JL
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

Attachment A

WELL CONCENTRATIONS TABLE (BLAINE)

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

November 1, 2005

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Fourth Quarter 2005 Groundwater Monitoring at
Former Shell Service Station
318 South Livermore Avenue
Livermore, CA

Monitoring performed on October 7, 2005

Groundwater Monitoring Report **051007-BR-2**

This report covers the routine monitoring of groundwater wells at this former Shell facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata
Project Coordinator

MN/ks

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Debbie Arnold
Delta Environmental
175 Bernal Road, Suite 200
San Jose, CA 95119

WELL CONCENTRATIONS
Former Shell Service Station
318 South Livermore Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-5	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-5	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	34.85	460.62
MW-5	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	37.26	458.21
MW-5	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	495.47	27.30	468.17
MW-5	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	27.84	467.63
MW-5	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	30.54	464.93
MW-5	11/13/2003	60	<0.50	1.5	1.7	9.6	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	33.94	461.53
MW-5	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	495.47	26.59	468.88
MW-5	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	495.47	25.44	470.03
MW-5	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	495.47	32.34	463.13
MW-5	11/11/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	33.24	462.23
MW-5	01/26/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	495.47	26.80	468.67
MW-5	04/13/2005	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	495.47	22.58	472.89
MW-5	**10/07/2005**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**495.47**	**28.78**	**466.69**
MW-6	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-6	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	497.57	35.41	462.16
MW-6	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	2.5	<2.0	<2.0	<2.0	<50	497.57	37.92	459.65
MW-6	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	497.57	27.71	469.86
MW-6	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	28.28	469.29
MW-6	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	30.56	467.01
MW-6	11/13/2003	90	<0.50	2.6	2.4	12	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	34.18	463.39
MW-6	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	497.57	27.16	470.41
MW-6	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	497.57	25.88	471.69
MW-6	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	497.57	32.74	464.83
MW-6	11/11/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	33.75	463.82

WELL CONCENTRATIONS
Former Shell Service Station
318 South Livermore Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-6	01/26/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	497.57	26.89	470.68
MW-6	04/13/2005	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	497.57	23.05	474.52
MW-6	**10/07/2005**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**497.57**	**28.12**	**469.45**
MW-7	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	1.2	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-7	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	2.0	<2.0	<2.0	<2.0	<50	495.58	34.29	461.29
MW-7	10/25/2002	<50	<0.50	<0.50	<0.50	<0.50	1.9	<2.0	<2.0	<2.0	<50	495.58	36.80	458.78
MW-7	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	0.89	<2.0	<2.0	<2.0	<50	495.58	26.75	468.83
MW-7	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	4.0	<2.0	<2.0	<2.0	<5.0	495.58	27.31	468.27
MW-7	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	3.2	<2.0	<2.0	<2.0	<5.0	495.58	30.02	465.56
MW-7	11/13/2003	72	<0.50	0.62	0.57	3.2	1.4	<2.0	<2.0	<2.0	<5.0	495.58	33.85	461.73
MW-7	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	0.85	NA	NA	NA	NA	495.58	27.13	468.45
MW-7	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	0.71	NA	NA	NA	NA	495.58	25.13	470.45
MW-7	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	1.8	NA	NA	NA	NA	495.58	31.68	463.90
MW-7	11/11/2004	75	<0.50	<0.50	<0.50	<1.0	2.2	<2.0	<2.0	<2.0	<5.0	495.58	32.92	462.66
MW-7	01/26/2005	<50	<0.50	<0.50	<0.50	<1.0	1.8	<2.0	<2.0	<2.0	<5.0	495.58	26.60	468.98
MW-7	04/13/2005	<50	<0.50	<0.50	<0.50	<0.50	0.87	<0.50	<0.50	<0.50	<5.0	495.58	23.25	472.33
MW-7	**10/07/2005**	**77**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**0.70**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**495.58**	**27.76**	**467.82**
MW-8	09/18/2001	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	NA	NA	NA
MW-8	07/09/2002	<50	<0.50	<0.50	<0.50	<0.50	6.9	<2.0	<2.0	<2.0	<50	494.90	34.46	460.44
MW-8	10/25/2002	140	<0.50	<0.50	<0.50	<0.50	2.2	3.3	<2.0	<2.0	<50	494.90	36.98	457.92
MW-8	01/24/2003	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<2.0	<2.0	<50	494.90	27.35	467.55
MW-8	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0	0.67	<2.0	<2.0	<2.0	<5.0	494.90	27.44	467.46
MW-8	07/17/2003	<50	<0.50	<0.50	<0.50	<1.0	0.50	<2.0	<2.0	<2.0	<5.0	494.90	32.29	462.61
MW-8	11/13/2003	260	1.5	2.3	2.9	16	1.4	<2.0	<2.0	<2.0	<5.0	494.90	33.08	461.82

WELL CONCENTRATIONS
Former Shell Service Station
318 South Livermore Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-8	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0	0.92	NA	NA	NA	NA	494.90	26.18	468.72
MW-8	04/07/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	494.90	25.10	469.80
MW-8	07/21/2004	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	494.90	31.97	462.93
MW-8	11/11/2004	<50	<0.50	<0.50	<0.50	<1.0	0.82	<2.0	<2.0	<2.0	<5.0	494.90	32.80	462.10
MW-8	01/26/2005	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	494.90	26.00	468.90
MW-8	04/13/2005	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	494.90	22.81	472.09
MW-8	**10/07/2005**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**494.90**	**29.05**	**465.85**
MW-9	09/19/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.89	NA
MW-9	09/23/2005	290	53	2.7	7.8	34	12	<2.0	<2.0	<2.0	14	NA	27.95	NA
MW-9	**10/07/2005**	**400**	**42**	**1.2**	**3.7**	**22**	**12**	**<2.0**	**<2.0**	**<2.0**	**9.4**	**494.77**	**28.13**	**466.64**

WELL CONCENTRATIONS
Former Shell Service Station
318 South Livermore Avenue
Livermore, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable

Notes:
Survey data provided by KHM Environmental Management, Inc.

Attachment B

LABORATORY CERTIFIED ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY DOCUMENTATION FOR INVESTIGATIVE "POTHOLES"

KIFF Analytical LLC

Report Number : 45252
Date : 08/10/2005

Debbie Arnold
Delta Environmental Consultants, Inc.
175 Bernal Road, Suite 200
San Jose, CA 95119

Subject : 10 Samples
Project Name : FORMER SHELL - SERVICE STATION
Project Number : SJ31-8LI-P
P.O. Number : Pending

Dear Ms. Arnold,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Calscience
Environmental
Laboratories, Inc.

August 10, 2005

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 05-08-0621**
Client Reference: FORMER SHELL SERVICE STATION

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/9/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis 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,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 08/09/05
Work Order No: 05-08-0621
Preparation: EPA 3050B
Method: EPA 6010B

Project: FORMER SHELL SERVICE STATION

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-7@3.0'	**05-08-0621-1**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	3.62	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-7@5.0'	**05-08-0621-2**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	2.79	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-7@7.0'	**05-08-0621-3**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	13.3	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-8@3.0'	**05-08-0621-4**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	4.68	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-9@3.0'	**05-08-0621-5**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	8.87	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-10@2.5'	**05-08-0621-6**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	5.72	0.50	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical	Date Received: 08/09/05
2795 2nd Street, Suite 300	Work Order No: 05-08-0621
Davis, CA 95616-6593	Preparation: EPA 3050B
	Method: EPA 6010B

Project: FORMER SHELL SERVICE STATION

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-11@2.5'	**05-08-0621-7**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	4.89	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-12@3.0'	**05-08-0621-8**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	3.70	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-13@3.0'	**05-08-0621-9**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	3.06	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-14@5.0'	**05-08-0621-10**	**08/08/05**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	7.73	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-002-6,663**	**N/A**	**Solid**	**08/09/05**	**08/09/05**	**050809L09**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 08/09/05
Work Order No: 05-08-0621
Preparation: EPA 3050B
Method: EPA 6010B

Project FORMER SHELL SERVICE STATION

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
PH-10@2.5'	**Solid**	**ICP 3300**	**08/09/05**	**08/09/05**	**050809S09**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	79	63	75-125	16	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Kiff Analytical		Date Received:	N/A
2795 2nd Street, Suite 300		Work Order No:	05-08-0621
Davis, CA 95616-6593		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: FORMER SHELL SERVICE STATION

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-6,663	**Solid**	**ICP 3300**	**08/09/05**	**050809-I-10**	**050809L09**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	25.0	26.9	108	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-08-0621

Qualifier	Definition
*	See applicable analysis comment.
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 or Matrix Spike Duplicate 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 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 with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
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.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

0621

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Troy Turpen
Company/Address: Kiff Analytical, LLC
Phone No.: FAX No.:
Project Number: SJ31-8LI-M
P.O. No.: 45252
Project Name: FORMER SHELL SERVICE STATION
Project Address:

Geotracker COELT EDD REPORT? __ YES _X_ NO

Sampling Company Log Code:
Global ID:
EDF Deliverable to (Email Address):
E-mail address: inbox@kiffanalytical.com

	Sampling		Container					Preservative					Matrix			Analysis Request									
Sample Designation	Date	Time	Sleeve	Poly	Amber	VOA	Tedlar	H_2SO_4	HNO_3	ICE	NONE	$Na_2S_2O_3$	WATER	SOIL	AIR	Total Lead by EPA 6010								Date Due: August 10, 2005	For Lab Use Only
1 PH-7@ 3.0'	8/8/05	8:53	1							X	X			X		X								X	
2 PH-7@ 5.0'	8/8/05	9:04	1							X	X			X		X								X	
3 PH-7@ 7.0'	8/8/05	9:12	1							X	X			X		X								X	
4 PH-8@ 3.0'	8/8/05	9:20	1							X	X			X		X								X	
5 PH-9@ 3.0'	8/8/05	8:45	1							X	X			X		X								X	
6 PH-10@ 2.5'	8/8/05	8:35	1							X	X			X		X								X	
7 PH-11@ 2.5'	8/8/05	9:32	1							X	X			X		X								X	
8 PH-12@ 3.0'	8/8/05	9:40	1							X	X			X		X								X	
9 PH-13@ 3.0'	8/8/05	9:50	1							X	X			X		X								X	
10 PH-14@ 5.0'	8/8/05	10:10	1							X	X			X		X								X	

Relinquished by: Osama Mbaki / Kiff Analytical	Date 8.8.05	Time 1900	Received by:	Remarks: **This is a Shell Project
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to: Accounts Payable

8/9/05 @ 0830

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05-08-0621

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff Analytical **DATE:** 8/9/05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
3.5 °C IR thermometer.
_____ Ambient temperature.

Initial: TC

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Applicable (N/A): _____

Initial: TC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: TC

COMMENTS:

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 45252

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Debbie Arnold	California EDF Report? ☑ Yes ☐ No
Company / Address: 175 Bernal Rd. St. 200	Sampling Company Log Code: Shell BB Denis Braun
Phone #: 408-224-4724 Fax #:	Global ID: will email Global ID #
Project #: SJBI-8LI-M P.O. #: will email incident #	EDF Deliverable To (Email Address): HBuckingham@deltaenv.com
Project Name: Former Shell-Service Station	Sampler Signature: Heather Buckingham
Project Address: 318 S. Livermore Ave. Livermore, CA	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative: Ice	Matrix: Water	Matrix: Soil	Matrix: Air	Analysis Request: MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	Analysis Request: MTBE (EPA 8260B) @ 0.5 ppb	Analysis Request: BTEX (EPA 8260B)	Analysis Request: TPH Gas (EPA 8260B)	Analysis Request: 5 Oxygenates (EPA 8260B)	Analysis Request: 7 Oxygenates (EPA 8260B)	Analysis Request: Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Analysis Request: Volatile Halocarbons (EPA 8260B)	Analysis Request: Volatile Organics Full List (EPA 8260B)	Analysis Request: Volatile Organics (EPA 524.2 Drinking Water)	Analysis Request: TPH as Diesel (EPA 8015M)	Analysis Request: TPH as Motor Oil (EPA 8015M)	Analysis Request: Total Lead (EPA 6010)	Analysis Request: W.E.T. Lead (STLC)	Analysis Request:	Analysis Request:	Analysis Request:	TAT	For Lab Use Only
PH-7@3.0'	8/8/05	8:53		1									↓														X						01
PH-7@5.0'		9:04		↓																							X						02
PH-7@7.0'		9:12																									X						03
PH-8@3.0'		9:20																									X						04
PH-9@3.0'		9:45																									X						05
PH-10@2.5'		9:35																									X						06
PH-11@2.5'		9:32																									X						07
PH-12@3.0'		9:40																									X						08
PH-13@3.0'		9:50																									X						09
PH-14@5.0'	↓	10:10		↓							↓			↓													X						10

Relinquished by:	Date	Time	Received by:
Heather Buckingham	8/8/05	12:00	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	080805	1210	Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
2°C	DHB	080805	1610	IR-4	Yes / No

Distribution: White - Lab; Pink - Originator
Rev: 051805

Attachment C

LABORATORY CERTIFIED ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY DOCUMENTATION FOR OVER-EXCAVATION SOIL SAMPLING

Submission#: 2005-08-0288

Delta Env. Consultants San Jose August 23, 2005

175 Bernal Road, Suite 200
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: SJ31-8LI-P
Project: SAP 135440
Site: 318 South Livermore Ave.

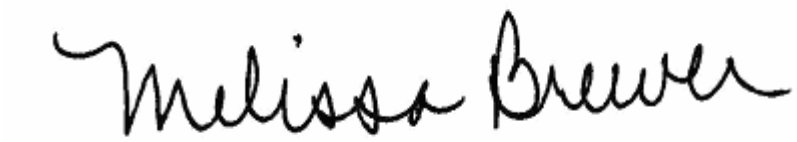
Dear Ms. Arnold:

Attached is our report for your samples received on 08/09/2005 13:40
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/23/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-1@2.5`	08/09/2005 11:35	Soil	1
SS-2@3`	08/09/2005 11:41	Soil	2
SS-3@2.5`	08/09/2005 11:47	Soil	3
SS-4@2.5`	08/09/2005 11:53	Soil	4
SS-5@2.5`	08/09/2005 12:01	Soil	5
SS-6@3`	08/09/2005 12:07	Soil	6
SS-7@3`	08/09/2005 12:18	Soil	7
SS-8@6`	08/09/2005 12:27	Soil	8
SS-9@6`	08/09/2005 12:30	Soil	9
SS-10@6`	08/09/2005 12:33	Soil	10
SS-11@6`	08/09/2005 12:37	Soil	11
PH-14B@2.5`	08/09/2005 12:57	Soil	12

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-1@2.5`**	Lab ID:	2005-08-0288 - 1
Sampled:	08/09/2005 11:35	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.3	1.0	mg/Kg	1.00	08/22/2005 15:03	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-2@3`**	Lab ID:	2005-08-0288 - 2
Sampled:	08/09/2005 11:41	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.1	1.0	mg/Kg	1.00	08/22/2005 15:06	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-3@2.5`**	Lab ID:	2005-08-0288 - 3
Sampled:	08/09/2005 11:47	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	480	1.0	mg/Kg	1.00	08/22/2005 15:09	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-4@2.5`**	Lab ID:	2005-08-0288 - 4
Sampled:	08/09/2005 11:53	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	340	1.0	mg/Kg	1.00	08/22/2005 15:12	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-5@2.5`**	Lab ID:	2005-08-0288 - 5
Sampled:	08/09/2005 12:01	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	76	1.0	mg/Kg	1.00	08/22/2005 15:16	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-6@3`**	Lab ID:	2005-08-0288 - 6
Sampled:	08/09/2005 12:07	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	49	1.0	mg/Kg	1.00	08/22/2005 15:19	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-7@3`**	Lab ID:	2005-08-0288 - 7
Sampled:	08/09/2005 12:18	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	89	1.0	mg/Kg	1.00	08/22/2005 15:22	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-8@6`**	Lab ID:	2005-08-0288 - 8
Sampled:	08/09/2005 12:27	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.7	1.0	mg/Kg	1.00	08/22/2005 15:26	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-9@6`**	Lab ID:	2005-08-0288 - 9
Sampled:	08/09/2005 12:30	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.6	1.0	mg/Kg	1.00	08/22/2005 15:28	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-10@6`**	Lab ID:	2005-08-0288 - 10
Sampled:	08/09/2005 12:33	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.2	1.0	mg/Kg	1.00	08/22/2005 15:32	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-11@6`**	Lab ID:	2005-08-0288 - 11
Sampled:	08/09/2005 12:37	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.7	1.0	mg/Kg	1.00	08/22/2005 15:41	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**PH-14B@2.5`**	Lab ID:	2005-08-0288 - 12
Sampled:	08/09/2005 12:57	Extracted:	8/19/2005 16:35
Matrix:	Soil	QC Batch#:	2005/08/19-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.0	1.0	mg/Kg	1.00	08/22/2005 15:44	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2005/08/19-05.15**

MB: 2005/08/19-05.15-051 — Date Extracted: 08/19/2005 16:35

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	08/22/2005 14:17	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-P
SAP 135440

Received: 08/09/2005 13:40

Site: 318 South Livermore Ave.

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2005/08/19-05.15**

LCS 2005/08/19-05.15-052 Extracted: 08/19/2005 Analyzed: 08/22/2005 14:20

LCSD 2005/08/19-05.15-053 Extracted: 08/19/2005 Analyzed: 08/22/2005 14:24

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	101	102	100.0	101.0	102.0	1.0	80-120	20		

Brewer, Melissa

From: Debbie Arnold [darnold@deltaenv.com]
Sent: Thursday, August 11, 2005 10:47 AM
To: Brewer, Melissa
Subject: RE: Verification/Question 318 South Livermore Ave. : 2005-08-0288

It is hard to read, and it's even wrong on our end!!!

It should be SJ31-8LI-P.

Also, this project should not be billed to the incident number, but to the SAP number instead.

SAP # is: 135440

Send invoice to: Denis Brown – Shell OPUS
Accounts Payable
PO Box 4935
Houston, TX 77210-4935

Thank you!

Sorry for the mistakes.

-----Original Message-----
From: Brewer, Melissa [mailto:MBrewer@stl-inc.com]
Sent: Thursday, August 11, 2005 9:24 AM
To: Debbie Arnold
Subject: Verification/Question 318 South Livermore Ave. : 2005-08-0288

From: Melissa Brewer <mbrewer@stl-inc.com>

Project# : SJ31-8CI-J
Project Name: 97464709

This email includes reports for the following tests:

- Cover Letter
  File: STLSF2005080288-ChainofCustody-COC0000501874.PDF

- Project Verification Sheet
  File: STLSF2005080288-ProjectVerificationSheet-PVS0000502356.PDF

Could you check the Project Number that we entered? It's very difficult to read. Thanks.

Please let me know if you have any questions.

Melissa Brewer
Project Manager

117417

STL-San Francisco

EQUIVA Services LLC Chain Of Custody Record

1220 Quarry Lane
Pleasanton, CA
(925)484-1919 (925)484-1096 fax

Equiva Project Manager to be invoiced:
☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON
Denis Brown
2005-08-0288

INCIDENT NUMBER (S&E ONLY): 9 7 4 6 4 7 0 9
SAP or CRMT NUMBER (TS/CRMT):
DATE: 8/9/05
PAGE: 1 of 2

SAMPLING COMPANY: Delta Environmental Consultants
LOG CODE:
SITE ADDRESS (Street and City): 318 South Livermore Ave.
GLOBAL ID NO.: T0600156427
ADDRESS: 175 Bernal Rd #200, San Jose, CA 95119
EDF DELIVERABLE TO (Responsible Party or Designee): Heather Buckingham
PHONE NO.: 408-224-4724
E-MAIL: hbuckingham@deltaenv.
CONSULTANT PROJECT NO.: SJ31-8GI-J SJ1H-ACI-1
PROJECT CONTACT (Hardcopy or PDF Report to): Debbie Arnold
TELEPHONE: (408) 224-4724
FAX: (408) 225-8506
E-MAIL: darnold@deltaenv.com
SAMPLER NAME(S) (Print): Heather Buckingham
LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☑ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	TBA	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	Total Lead 6010B per Shell's Disp. Req.	TPH - Diesel, Extractable (8015m)	Total Lead (6010B)	MTBE (8260B) Confirmation, See Note
	SS-1@2.5'	8/9/05	11:35																					X	
	SS-2@3'	8/9/05	11:41																					X	
	SS-3@2.5'		11:47																					X	
	SS-4@2.5'		11:53																					X	
	SS-5@2.5'		12:01																					X	
	SS-6@3'		12:07																					X	
	SS-7@3'		12:18																					X	
	SS-8@6'		12:27																					X	
	SS-9@6'		12:30																					X	
	SS-10@6'		12:37																					X	
	SS-11@6'		12:57																					X	

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT: C° 20°C

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Heather Buckingham 1:40			
	Received by: (Signature)	8/9/05	13:40
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphic (714) 698-8702

STL-San Francisco

EQUIVA Services LLC Chain Of Custody Record

117417

1220 Quarry Lane
Pleasanton, CA
(925)484-1919 (925)484-1096 fax

Equiva Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Denis Brown

2005-08-0288

INCIDENT NUMBER (S&E ONLY): 9 7 4 6 4 7 0 9

SAP or CRMT NUMBER (TS/CRMT):

DATE: 8/9/05

PAGE: 1 of 2

SAMPLING COMPANY: Delta Environmental Consultants	LOG CODE:
ADDRESS: 175 Bernal Rd #200, San Jose, CA 95119	
PROJECT CONTACT (Hardcopy or PDF Report to): Debbie Arnold	
TELEPHONE: (408) 224-4724	FAX: (408) 225-8506
E-MAIL: darnold@deltaenv.com	
SITE ADDRESS (Street and City): 318 South Livermore Ave.	GLOBAL ID NO.: T0600156427
EDF DELIVERABLE TO (Responsible Party or Designee): Heather Buckingham	PHONE NO.: 408-224-4724
E-MAIL: hbuckingham@deltaenv.com	CONSULTANT PROJECT NO.: SJ31-821-5 SJ1H-ACI-1
SAMPLER NAME(S) (Print): Heather Buckingham	LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☑ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	TBA	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48--)	Total Lead (6010B per Shell's Disp. tes	TPH - Diesel, Extractable (8015m)	X Total Lead (6010B)	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	PH-1@2.5'	8/9/05	12:57	Soil	1																					

TEMPERATURE ON RECEIPT C°: 20°C

Relinquished by: (Signature) Heather Buckingham	1:40	Received by: (Signature)	Date: 8/9/05 Time: 13:40
Relinquished by: (Signature)		Received by: (Signature)	Date: Time:
Relinquished by: (Signature)		Received by: (Signature)	Date: Time:

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphic (714) 898-9702

Submission#: 2005-10-0562

Delta Env. Consultants San Jose November 08, 2005

175 Bernal Road, Suite 200
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: SJ31-8LI-P
Project: SAP#135440
Site: 318 S. Livermore Ave., Livermore

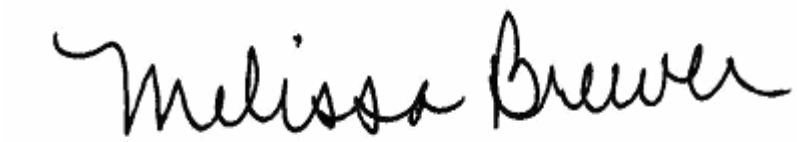
Dear Ms. Arnold:

Attached is our report for your samples received on 10/26/2005 15:09
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/10/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,



Melissa Brewer
Project Manager

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-19@2.1 FT	10/24/2005 14:30	Soil	1
SS-21@2.1 FT	10/24/2005 14:55	Soil	2
SS-12@1.8FT	10/24/2005 10:45	Soil	3
SS-13@2.0FT	10/24/2005 11:20	Soil	4
SS-14@2.0FT	10/24/2005 11:25	Soil	5
SS-15@2.0FT	10/24/2005 11:35	Soil	6
SS-16@5.5FT	10/24/2005 11:40	Soil	7
SS-17@5.5FT	10/24/2005 11:50	Soil	8
SS-18@5.5FT	10/24/2005 14:00	Soil	9
SS-20@1.9FT	10/24/2005 14:40	Soil	10
SS-22@2.0FT	10/24/2005 15:05	Soil	11

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-19@2.1 FT**	Lab ID:	2005-10-0562 - 1
Sampled:	10/24/2005 14:30	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	150	1.0	mg/Kg	1.00	11/01/2005 11:28	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-21@2.1 FT**	Lab ID:	2005-10-0562 - 2
Sampled:	10/24/2005 14:55	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	170	1.0	mg/Kg	1.00	11/01/2005 11:38	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-12@1.8FT**	Lab ID:	2005-10-0562 - 3
Sampled:	10/24/2005 10:45	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	14	1.0	mg/Kg	1.00	11/01/2005 11:41	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-13@2.0FT**	Lab ID:	2005-10-0562 - 4
Sampled:	10/24/2005 11:20	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	480	1.0	mg/Kg	1.00	11/01/2005 11:44	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-14@2.0FT**	Lab ID:	2005-10-0562 - 5
Sampled:	10/24/2005 11:25	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	27	1.0	mg/Kg	1.00	11/01/2005 11:47	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-15@2.0FT**	Lab ID:	2005-10-0562 - 6
Sampled:	10/24/2005 11:35	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	110	1.0	mg/Kg	1.00	11/01/2005 11:57	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-16@5.5FT**	Lab ID:	2005-10-0562 - 7
Sampled:	10/24/2005 11:40	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.6	1.0	mg/Kg	1.00	11/01/2005 12:00	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-17@5.5FT**	Lab ID:	2005-10-0562 - 8
Sampled:	10/24/2005 11:50	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.7	1.0	mg/Kg	1.00	11/01/2005 12:03	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-18@5.5FT**	Lab ID:	2005-10-0562 - 9
Sampled:	10/24/2005 14:00	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.7	1.0	mg/Kg	1.00	11/01/2005 12:06	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-20@1.9FT**	Lab ID:	2005-10-0562 - 10
Sampled:	10/24/2005 14:40	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.8	1.0	mg/Kg	1.00	11/01/2005 12:08	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	**SS-22@2.0FT**	Lab ID:	2005-10-0562 - 11
Sampled:	10/24/2005 15:05	Extracted:	10/31/2005 13:46
Matrix:	Soil	QC Batch#:	2005/10/31-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.2	1.0	mg/Kg	1.00	11/01/2005 12:11	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 3050B — Test(s): 6010B

Method Blank — **Soil** — **QC Batch # 2005/10/31-05.15**

MB: 2005/10/31-05.15-038 — Date Extracted: 10/31/2005 13:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	11/01/2005 10:57	

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2005/10/31-05.15**

LCS 2005/10/31-05.15-039 Extracted: 10/31/2005 Analyzed: 11/01/2005 11:00

LCSD 2005/10/31-05.15-040 Extracted: 10/31/2005 Analyzed: 11/01/2005 11:03

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	103	103	100.0	103.0	103.0	0.0	80-120	20		

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-21@2.1 FT	10/24/2005 14:55	Soil	2

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SS-21@2.1 FT**	Lab ID:	2005-10-0562 - 2
Sampled:	10/24/2005 14:55	Extracted:	10/29/2005 13:05
Matrix:	Soil	QC Batch#:	2005/10/29-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/29/2005 13:05	.
Benzene	ND	0.0050	mg/Kg	1.00	10/29/2005 13:05	
Toluene	ND	0.0050	mg/Kg	1.00	10/29/2005 13:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/29/2005 13:05	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/29/2005 13:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/29/2005 13:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/29/2005 13:05	
1,2-DCA	ND	0.0050	mg/Kg	1.00	10/29/2005 13:05	
EDB	ND	0.0050	mg/Kg	1.00	10/29/2005 13:05	
Surrogate(s)						
1,2-Dichloroethane-d4	105.1	76-124	%	1.00	10/29/2005 13:05	
Toluene-d8	90.8	75-116	%	1.00	10/29/2005 13:05	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2005/10/29-1A.69**

MB: 2005/10/29-1A.69-050 — Date Extracted: 10/29/2005 11:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/29/2005 11:50	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/29/2005 11:50	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/29/2005 11:50	
1,2-DCA	ND	0.0050	mg/Kg	10/29/2005 11:50	
EDB	ND	0.0050	mg/Kg	10/29/2005 11:50	
Benzene	ND	0.0050	mg/Kg	10/29/2005 11:50	
Toluene	ND	0.0050	mg/Kg	10/29/2005 11:50	
Ethyl benzene	ND	0.0050	mg/Kg	10/29/2005 11:50	
Total xylenes	ND	0.0050	mg/Kg	10/29/2005 11:50	
Surrogates(s)					
1,2-Dichloroethane-d4	100.8	76-124	%	10/29/2005 11:50	
Toluene-d8	92.0	75-116	%	10/29/2005 11:50	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/10/29-1A.69**

LCS 2005/10/29-1A.69-051 Extracted: 10/29/2005 Analyzed: 10/29/2005 11:15
LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0714		0.05	142.8			65-165	20		
Benzene	0.0471		0.05	94.2			69-129	20		
Toluene	0.0485		0.05	97.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	561		500	112.2			76-124			
Toluene-d8	472		500	94.4			75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2005/10/29-1A.69**

MS/MSD Lab ID: 1998-09-0003 - 001

MS: 2005/10/29-1A.69-022 Extracted: 10/29/2005 Analyzed: 10/29/2005 12:22
Dilution: 1.00

MSD: 2005/10/29-1A.69-044 Extracted: 10/29/2005 Analyzed: 10/29/2005 12:44
Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0582	0.0466	ND	0.047081	123.6	97.9	23.2	65-165	20		R1
Benzene	0.0445	0.0370	ND	0.047081	94.5	77.7	19.5	69-129	20		
Toluene	0.0432	0.0349	ND	0.047081	91.8	73.3	22.4	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	494	480		500	98.8	96.0		76-124			
Toluene-d8	452	453		500	90.4	90.6		75-116			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Legend and Notes

Result Flag

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-

R1

Analyte RPD was out of QC limits.

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Delta Env. Consultants San Jose

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San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-19@2.1 FT	10/24/2005 14:30	Soil	1

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**SS-19@2.1 FT**	Lab ID:	2005-10-0562 - 1
Sampled:	10/24/2005 14:30	Extracted:	11/2/2005 03:41
Matrix:	Soil	QC Batch#:	2005/11/01-3A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	2000	50	mg/Kg	1.00	11/02/2005 03:41	Q1
Benzene	ND	0.50	mg/Kg	1.00	11/02/2005 03:41	
Toluene	ND	0.50	mg/Kg	1.00	11/02/2005 03:41	
Ethyl benzene	3.1	0.50	mg/Kg	1.00	11/02/2005 03:41	
Total xylenes	24	0.50	mg/Kg	1.00	11/02/2005 03:41	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	11/02/2005 03:41	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	11/02/2005 03:41	
1,2-DCA	ND	0.50	mg/Kg	1.00	11/02/2005 03:41	
EDB	ND	0.50	mg/Kg	1.00	11/02/2005 03:41	
Surrogate(s)						
1,2-Dichloroethane-d4	82.7	53-129	%	1.00	11/02/2005 03:41	
Toluene-d8	84.4	47-136	%	1.00	11/02/2005 03:41	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200
San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Soil** — **QC Batch # 2005/11/01-3A.69**

MB: 2005/11/01-3A.69-020 — Date Extracted: 11/02/2005 03:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	11/02/2005 03:20	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	11/02/2005 03:20	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	11/02/2005 03:20	
1,2-DCA	ND	0.50	mg/Kg	11/02/2005 03:20	
EDB	ND	0.50	mg/Kg	11/02/2005 03:20	
Benzene	ND	0.50	mg/Kg	11/02/2005 03:20	
Toluene	ND	0.50	mg/Kg	11/02/2005 03:20	
Ethyl benzene	ND	0.50	mg/Kg	11/02/2005 03:20	
Total xylenes	ND	0.50	mg/Kg	11/02/2005 03:20	
Surrogates(s)					
1,2-Dichloroethane-d4	90.8	53-129	%	11/02/2005 03:20	
Toluene-d8	84.8	47-136	%	11/02/2005 03:20	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Soil** **QC Batch # 2005/11/01-3A.69**

LCS 2005/11/01-3A.69-038 Extracted: 11/02/2005 Analyzed: 11/02/2005 02:38

LCSD 2005/11/01-3A.69-059 Extracted: 11/02/2005 Analyzed: 11/02/2005 02:59

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	9.81	10.1	10	98.1	101.0	2.9	65-165	20		
Benzene	8.28	8.70	10	82.8	87.0	4.9	69-129	20		
Toluene	8.57	8.90	10	85.7	89.0	3.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	212	223	250	84.8	89.2		53-129			
Toluene-d8	214	225	250	85.6	90.0		47-136			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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San Jose, CA 95119
Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ31-8LI-P
SAP#135440

Received: 10/26/2005 15:09

Site: 318 S. Livermore Ave., Livermore

Legend and Notes

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

98605

SHELL Chain Of Custody Record

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Denis Brown

(see invoicing notes below)

2005-10-0562

INCIDENT NUMBER (S&E ONLY)

SAP or CRMT NUMBER (TS/CRMT) 1354400

10/25/2005

PAGE: 1 of 1

SAMPLING COMPANY: **Delta Environmental Consultants**

LOG CODE:

SITE ADDRESS (Street and City): **318 S. Livermore Ave, Livermore**

GLOBAL ID NO.: T0600156427

ADDRESS: **175 Bernal Rd, San Jose, CA 95119**

EDF DELIVERABLE TO (Responsible Party or Designee): Heather Buckingham

PHONE NO.: (408) 224-4724

E-MAIL: hbuckingham@deltaenv.com

CONSULTANT PROJECT NO.: SJ31-8LI-P

PROJECT CONTACT (Hardcopy or PDF Report to): **Debbie Arnold**

TELEPHONE: **(408) 224-4724**

FAX: **(408) 826-1873**

E-MAIL: **darnold@deltaenv.com**

SAMPLER NAME(S) (Print): Debbie Arnold

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
☑ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

send hard copy invoice to Denis at P.O. Box 4912 in Houston

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	tBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ☐ Total ☐ STLC ☐ TCL	LUFT5 ☐ Total ☐ STLC ☐ TCL	CAM17 ☐ Total ☐ STLC ☐ TCL	Test for Disposal
	SS-19 @ 2.1 ft	10/24	2:30pm	soil	1	X		X	X	X		X					X			
	SS-21 @ 2.1 ft	10/24	2:55pm	soil	1	X		X	X	X		X					X			
	SS-12 @ 1.8 ft	10/24	10;45am	soil	1												X			
	SS-13 @ 2.0 ft	10/24	11:20an	soil	1												X			
	SS-14 @ 2.0 ft	10/24	11:25an	soil	1												X			
	SS-15 @ 2.0 ft	10/24	11:35an	soil	1												X			
	SS-16 @ 5.5 ft	10/24	11:40an	soil	1												X			
	SS-17 @ 5.5 ft	10/24	11:50an	soil	1												X			
	SS-18 @ 5.5 ft	10/24	2:00pm	soil	1												X			
	SS-20 @ 1.9 ft	10/24	2:40pm	soil	1												X			
	SS-22 @ 2.0 ft	10/24	3:05pm	soil	1												X			

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C° 3

Relinquished by: (Signature) D. Arnold 10/25/05	Received by: (Signature)	Date: 10/26/05	Time: 1529
Relinquished by: (Signature) 10/26/05	Received by: (Signature)	Date: 10/26/05	Time: 1940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision