

RO 2525



Shell Oil Products US

July 11, 2005

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

Alameda County
JUL 13 2005
Environmental Health

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

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown
Sr. Environmental Engineer



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July 11, 2005
Project No. SJ31-SLI-1

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: **Soil and Groundwater Investigation and 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 soil and groundwater investigation (SWI), and soil over-excavation activities at the above-referenced site. 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. The purpose of the SWI was to define groundwater conditions downgradient (southwest) of the former fuel dispensers, and to determine if additional lead impacted soils exist beneath the location of the former leaded gasoline fuel tank.

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.

A member of:



PREVIOUS INVESTIGATIONS

Monitoring Wells MW-1 through MW-4

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

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. Twelve quarterly groundwater sampling events have now been performed to date. 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.

With the exception of Well MW-7, low-level (< 260 ug/l) concentrations of TPH-G and BTEX compounds have only been detected once in groundwater samples collected on November 13, 2003. TPH-G was also detected at 75 ug/l in Well MW-7 on November 11, 2004. The results are questioned as TPH-G and BTEX compounds have been below the laboratory method detection limit in all other groundwater samples. Methyl tert butyl ether (MTBE) and diisopropyl ether (DIPE) are the only two fuel oxygenates that have been detected in groundwater. The maximum concentration of MTBE detected in groundwater from the last four sampling events is 2.2 ug/l – Well MW-7, November 11, 2004. DIPE has been detected once, in the October 25, 2002 sample from Well MW-8 at 3.3 ug/l. Groundwater samples were analyzed for lead scavengers, 1,2-Dichloroethane (1,2-DCA) and 1,2-Dibromoethane (EDB), twice – during fourth quarter 2004 and during second quarter 2005. EDB was not detected in any groundwater sample. 1,2-DCA was detected once in Well MW-8 at 3.2 ug/l – November 11, 2004, and twice in Well MW-7 at a maximum concentration of 2.3 ug/l – November 11, 2004.

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, Former Shell Service Station, 318 Livermore Avenue, Livermore, California*, 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 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 fuel dispenser designated P1 (Figure 3).

LEAD IMPACTED SOIL EXCAVATION AND INVESTIGATION

The following sections summarize the initial lead impacted soil excavation activities that were conducted per Delta's work plan dated January 20, 2005, approved by the ACHCSA in their letter to Shell dated January 21, 2005. Over-excavation soil confirmation sampling was performed under the direction of Mr. Bob Schultz of the ACHCSA. Further excavation and investigation activities were performed following discussion and correspondence with the ACHCSA.

INITIAL LEAD IMPACTED SOIL EXCAVATION

On May 4, 2005, Delta directed the excavation of soil in the area beneath the former eastern fuel dispenser island. Total lead had previously been detected at this location in December 2003 at a concentration of 380 mg/kg. Approximately 100 cubic yards of soil was removed during initial excavation activities. Within approximately the surficial 5 feet of excavated soils, Delta commonly observed large pieces of buried concrete debris (2 to 3 feet in dimension) and a dark brown, undulating soil layer between 2 and 3 feet bg. The excavation limits are shown on Figure 2.

Delta collected twelve soil samples (S-1 @ 5 FEET through S-12 @ 2.5 ft) from the bottom and sidewalls of the excavation at depths ranging from 2.5 to 10 feet bg. Mr. Bob Schultz requested that Delta collect sidewall samples from the darker (higher organic) soils located in approximately the 3-foot depth range. Soil samples S-5 @ 10' and S-6 @ 10' were collected by pushing a brass tube into soil that was brought to the surface 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 Kiff Analytical LLC (Kiff) in Davis, California for TPH-G; BTEX compounds; the five fuel oxygenates: MTBE, DIPE, ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), and TBA; 1,2-DCA; and EDB by EPA Method 8260B, and total lead by EPA Method 6010B.

Lead was detected in all twelve soil samples at concentrations ranging from 3.2 to 560 mg/kg. All other analytes were below the laboratory detection limits in all soil samples. 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.

ADDITIONAL LEAD IMPACTED SOIL EXCAVATION

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 approximately an additional 75 cubic yards of lead impacted soil (Figure 2). Delta collected six additional soil samples (S-13 @ 6 ft through S-18 @ 5 ft) from the bottom and sidewalls of the excavation at depths ranging from 1.9 to 6 feet. Sidewall samples were again collected from within the dark brown soil layer. Soil samples S-13 @ 6 ft and S-18 @ 5 ft were collected by pushing a brass tube into soil that was brought to the surface 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 TPH-G, BTEX compounds, the five fuel oxygenates, MTBE, DIPE, ETBE, TAME, and TBA, 1,2-DCA, and EDB by EPA Method 8260B, and total lead by EPA Method 6010B.

Lead was detected in all six soil samples at concentrations ranging from 3.23 to 474 mg/kg. All other analytes were again below the laboratory detection limits in all soil samples. 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.

INVESTIGATIVE EXCAVATIONS

The results of the initial and additional excavation activities indicated that lead impacts appeared to be limited to depths between 2 and 4 feet bg within the dark brown soil unit. However, the lateral extent of the lead impacted soil was not defined. 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. Delta concluded that the lead impacts appeared to be associated with the fill material, rather than with the former fuel dispensers.

Delta proposed to investigate the extent of the fill material across the site by excavating six "potholes". Mr. Jerry Wickham of the ACHCSA approved the pothole locations in email correspondence dated June 6, 2005. Pothole locations are shown on Figure 3. Each pothole was approximately 5 feet long by 5 feet wide and 5 feet deep. Concrete debris was only observed by Delta in potholes PH-2 and PH-4 (Figure 3). Delta collected six soil samples (PH-1@2.5' through PH-6@5') from the pothole sidewalls at depths ranging from 2.5 to 5 feet. Soil samples were collected by pushing a brass tube into sidewall soils. 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. The soil samples were analyzed at Kiff for total lead by EPA Method 6010B.

Lead was detected in all six soil samples. Only one sample (PH-4@3') resulted in a total lead detection that was above the ACHCSA approved cleanup goal. The total lead concentration in pothole Sample PH-4@3' was 1,040 mg/kg. Soil analytical results are summarized in Table 1 and are shown on Figure 3. Chain of custody documentation and certified laboratory analytical reports are included as Attachment B.

SOIL STOCKPILES

On May 4 and 18, 2005, Delta collected two soil composite samples (Composite A,B,C,D and Composite E,F,G) from the soil stockpiles generated during the initial and additional over-excavation activities. Each composite sample consisted of three or four, randomly collected, 6-inch brass tubes of soil. Soil samples were collected by removing the upper one-foot of soil on the surface of the stockpile and then pushing a brass tube into the underlying soil. 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.

Each sample series was composited and analyzed for TPH-G and BTEX compounds by EPA Method 8260B; and for total lead by EPA Method 6010B. Composite E,F,G was also analyzed for organic lead by

EPA Method DHS LUFT and for STLC lead by EPA Method 6010B. Chain of custody documentation and certified laboratory analytical reports are included in Attachment B.

No TPH-G or BTEX compounds were detected in either of the composite samples collected from the stockpiles. Total lead was detected in Composite E,F,G at a concentration of 117 mg/kg, and organic lead was detected at a concentration of 4.17 mg/L.

Approximately 175 cubic yards of stockpiled soil was transported to Forward Landfill located in Manteca, California for disposal on June 2, 2005.

SOIL AND GROUNDWATER INVESTIGATION

The following sections summarize the soil and groundwater investigation activities that were conducted per Delta's work plan dated January 20, 2005, approved by the ACHCSA in their letter to Shell dated January 21, 2005.

SOIL BORINGS B-1 THROUGH B-3

On June 2 and 3, 2005, Delta directed the advancement of three soil borings, B-1 through B-3, at the locations shown on Figure 4. 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.

The soil borings were installed under permit from Alameda County Flood Control and Water Conservation District, Zone 7 Water Resources Management. A copy of the drilling permit is contained in Attachment C. Borings were drilled with hollow-stem auger equipment operated by BC² Environmental Corporation (BC²) (License C57-686255), and soil core samples were logged by a Delta field geologist. Prior to drilling, boring locations were surveyed by a geophysical locator and marked for underground utilities. Borings were then excavated with an air-knife to approximately 6 feet bg in order to minimize potential damage to any unidentified underground utilities.

Borings B-1 and B-3 were sampled at 5-foot intervals for lithological classification using a split-spoon sampler equipped with brass liners. Boring B-2 was sampled continuously from 8.5 to 20 feet bg in order to determine the contact location between tank pit backfill materials and native soil. The borings were drilled to total depths ranging from 31 to 47 feet bg.

HYDROGEOLOGY

Soil borings B-1 and B-3 predominantly encountered a well-graded sandy gravel to gravely sand unit between the ground surface and approximately 13 feet bg, underlain by clay deposits to total depth. An approximately 5-foot thick interbedded sand and gravel layer was logged at approximately 30 feet bg. Soil Boring B-2, located within a former UST pit, encountered backfill materials to approximately 14 feet bg, which were underlain by clay. Sand and gravels were also encountered at an approximate depth of 30 feet in Boring B-2, but the boring was terminated at 31 feet bg. Groundwater was first encountered in clayey soils between approximately 21 and 25 feet bg in each of the three borings. Boring logs are presented in Attachment D.

SOIL SAMPLING AND ANALYSIS

Soil samples were retained for laboratory analysis from each boring at 5-foot intervals. A photo-ionization detector (PID) was used in the field to screen the collected samples for petroleum hydrocarbons. PID readings are recorded on the boring logs. Retained soil samples were sealed in brass liners with Teflon sheets and tight fitting plastic end caps, and placed on ice for transport to a certified testing laboratory. Samples were analyzed at STL for TPH-G, BTEX compounds, the five fuel oxygenates, MTBE, DIPE, ETBE, TAME, and TBA, and 1,2-DCA by EPA Method 8260B; EDB by EPA Method by 504.1; and total lead by EPA Method 6010B.

Lead was detected in all retained soil samples at concentrations ranging from 3.8 to 17 mg/kg. No petroleum hydrocarbons, fuel oxygenates, or lead scavengers were detected at or above the laboratory reporting limit in any of the soil samples. Soil analytical results for Borings B-1 through B-3 are summarized in Table 1. Certified analytical reports and chain-of-custody documentation for soil are presented in Attachment E.

GROUNDWATER SAMPLING AND ANALYSIS

One groundwater sample was collected from Boring B-2 at a depth of approximately 25 feet bg, prior to advancing the boring to its total depth of 31 feet bg. A disposable bailer was used to retrieve the groundwater sample. Two discrete groundwater samples were collected from each Boring B-1 and B-3, in order to test: 1) groundwater in the coarse-grained sand and gravel materials at approximately 30 feet bg; and 2) groundwater within the depth interval (36 to 55 feet bg) that is screened by the existing site wells. To collect discrete groundwater samples, a sealed stainless steel Hydropunch sampler was used.

The Hydropunch was pushed from the bottom of the augered borehole to the desired sampling depth, at which point the push rod was retracted exposing up to 4 feet of screen to the formation. Hydropunch sampling intervals are included in Table 2. Groundwater, when available, flowed hydrostatically from the surrounding formation into the sampler through the exposed screened interval. A small diameter plastic bailer or plastic tubing was then lowered through the hollow push rods, into the screened section for groundwater sample collection. In order to minimize groundwater infiltrating into the Hydropunch sampler from the borehole above, groundwater was bailed out of the augers prior to advancing the Hydropunch to the desired sampling depth.

Groundwater was successfully collected by Delta at each attempted location (Samples B-1@30' through B-3@51'). Sufficient groundwater was available to collect within approximately 5 minutes at sample locations B-1 @30', B-2@25', and B-3@31'. Delta waited overnight for a sufficient amount of groundwater to enter the Hydropunch sampler at sample location B-1@40.5', and approximately 45 minutes at sample location B-3 @51'. Immediately after groundwater sampling was complete, each borehole was tremmie-filled to the surface with a Portland cement/bentonite slurry mixture (5% bentonite).

All groundwater samples were decanted into laboratory-provided containers, and clearly labeled and placed on ice for transport to a certified testing laboratory for analysis. Samples were analyzed at STL for TPH-G, BTEX compounds, the five fuel oxygenates, MTBE, TAME, ETBE, TAME, and TBA, and 1,2-DCA by EPA Method 8260B, EDB by EPA Method by 504.1, and total lead by EPA Method 6010B.

TPH-G was detected in Samples B-1@30', B-1@40.5', and B-3@31' at concentrations of 83 ug/l, 130 ug/l, and 240 ug/l, respectively. Samples B-1@30' and B-3@31' also contained benzene at concentrations of 8.4 ug/l and 2.4 ug/l, and ethylbenzene at concentrations of 1.1 ug/l and 0.73 ug/l. Toluene was detected in B-1@30' at a concentration of 1.1 ug/l. MTBE was detected in B-1@30' at 1.5 ug/l. MTBE was also detected in Samples B-1@40.5' and B-3@31' at concentrations of 5 ug/l and 2 ug/l, respectively. 1,2-DCA was detected in Sample B-1@40.5' at 81 ug/l and in Sample B-3@31' 0.64 ug/l. Grab groundwater sample B-2@25' contained no petroleum hydrocarbons, fuel oxygenates, or lead scavengers. Total lead was detected in all of the groundwater samples ranging in concentration from 0.032 ug/l to 0.56 ug/l. All other analytes were below the laboratory reporting limits in all groundwater samples. Groundwater analytical results and sample depth intervals are summarized on Table 2. Certified analytical reports and chain-of-custody documentation for groundwater are also presented in Attachment E.

SUMMARY AND CONCLUSIONS

- Soil samples collected during over-excavation activities indicate that lead impacted fill material exists in the central portion of the site. Investigative "pothole" excavations appear to have defined the lateral extent of the lead impacted soil towards the north.
- No lead impacted soils were encountered in Boring B-2, located in the vicinity of the former leaded gasoline UST.
- Residual petroleum hydrocarbons do not appear to exist in site soils. No petroleum hydrocarbons, fuel oxygenates, or lead scavengers were detected in any of the soil samples collected during excavation activities or from the three site borings.
- Residual petroleum hydrocarbon impacts to groundwater exist southwest of the former dispenser islands, and appear to extend to a depth between approximately 40 and 50 feet bg.
- Depth discrete groundwater sampling indicates that the groundwater impacts appear to be concentrated within the sand and gravel unit located at approximately 30 feet bg. Fine-grained clay soils below 30 feet appear to have retarded the vertical migration of petroleum hydrocarbons.
- Low-level (≤ 240 ug/l) concentrations of TPH-G, BTEX compounds, MTBE, and 1,2-DCA were detected in groundwater samples collected from Borings B-1 and B-3. No petroleum hydrocarbons or fuel oxygenates were detected in the groundwater sample collected from Boring B-2.
- Only low-levels (≤ 75 ug/l) of TPH-G, MTBE, and 1,2-DCA have been detected in site wells over the past year.
- It is likely that groundwater concentrations will attenuate over time given the lack of a continued source of petroleum hydrocarbons on-site.
- The predominant groundwater gradient at the site is towards the west, in the direction of downgradient Well MW-8.
- Two municipal water supply wells have been identified upgradient of the site (Figure 1).

RECOMMENDATIONS

In order to meet the ACHCSA approved cleanup goal of 150 mg/kg for total lead, Delta recommends over-excavating approximately an additional 250 cubic yards of soil in the central portion of the site, extending north past the location of pothole PH-4. The limits of the proposed excavation are presented on Figure 3. Delta also recommends excavating additional investigative potholes in the southern portion of the site, in order to confirm the southwest extent of the lead impacted fill materials. Proposed pothole locations are shown on Figure 3. Further over-excavation of soil towards the southwest may be conducted pending data obtained from the potholes.

Based on a lack of continued source, relatively low-level groundwater concentrations, and no apparent sensitive receptors downgradient, Delta recommends that the groundwater monitoring and sampling program continue at the site on a semi-annual basis until the detected analytes attenuate to concentrations below the following ACHCSA approved clean-up goals:

TPH-G – 100 ug/l, BTEX compounds (benzene – 1.0 ug/l; toluene – 40 ug/l; ethylbenzene – 30 ug/l; xylene – 13 ug/l), MTBE – 5.0 ug/l, total lead – 2.5 ug/l, 1,2-DCA – 0.5 ug/l, and EDB – 0.05 ug/l.

In order to monitor the low-level concentrations in groundwater southwest of the former dispenser islands, Delta recommends installation of Well MW-9 between Wells MW-7 and MW-8 (Figure 4). Delta proposes to construct Well MW-9 to a total depth of approximately 35 feet bg, with a screened interval across the sand and gravel unit identified at approximately 30 feet bg. Well MW-9 will be added to the site's monitoring and sampling program.

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) 224-4724 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 – Site Plan and Over-Excavation Map

Figure 3 – Site Plan and Pothole Sampling Map

Figure 4 – Concentrations of TPH-G, Benzene, and MTBE in Groundwater (2nd Quarter 2005)

Attachment A – Well Concentrations Table (Blaine)

Attachment B – Laboratory Certified Analytical Results and Chain-of-Custody Documentation for
Over-Excavation Soil Sampling

Attachment C – Zone 7 Drilling Permit

Attachment D – Boring Logs

Attachment E – Laboratory Certified Analytical Results and Chain-of-Custody Documentation for Soil and
Groundwater Sampling (Borings B-1 through B-3)

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

Table 1
Summary of Soil Analytical Data
Former Shell Service Station
318 South Livermore Avenue, Livermore, California

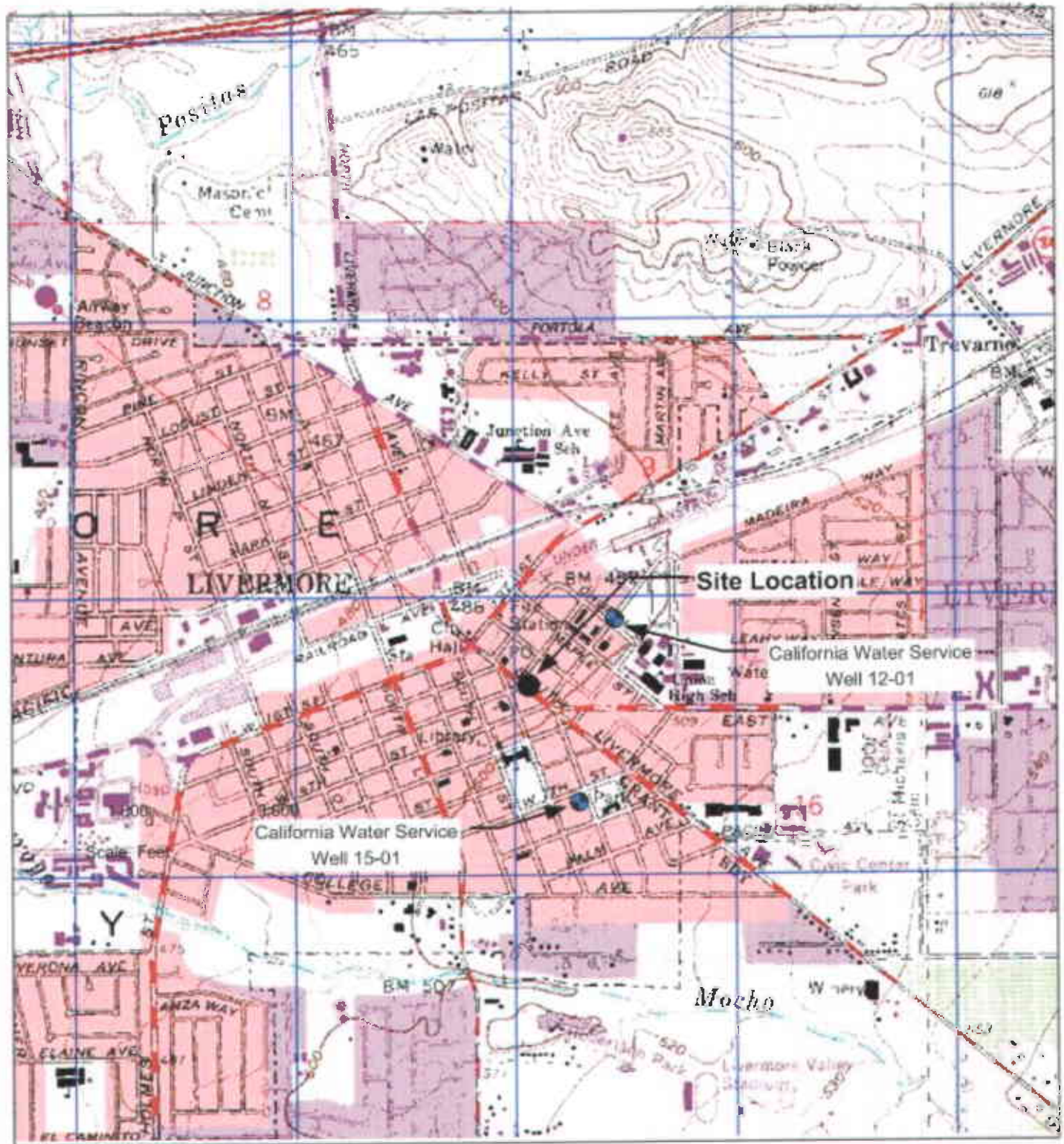
Sample Designation	Date Sampled	Depth (feet)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	EDB (ug/kg)	1,2-DCA (mg/kg)	Lead (mg/kg)
Over-Excavation Confirmation Samples											
S-1 @ 5 FEET	5/4/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005	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
Boring Advancements											
B-1@5'	6/2/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.070	<0.005	3.8
B-1@10'	6/2/2005	10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.068	<0.005	4.9
B-1@15'	6/2/2005	15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.070	<0.005	6.9
B-1@20'	6/2/2005	20	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.067	<0.005	8.2
B-1@25'	6/2/2005	25	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.068	<0.005	7.1
B-1@30'	6/2/2005	30	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.069	<0.005	4.4
B-1@35'	6/2/2005	35	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.070	<0.005	7
B-2@5'	6/2/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.068	<0.005	3.9
B-2@10'	6/2/2005	10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.069	<0.005	4.4
B-2@15'	6/2/2005	15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.069	<0.005	5.8
B-2@20'	6/2/2005	20	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.070	<0.005	6.8
B-2@25'	6/2/2005	25	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.069	<0.005	5.7

Table 1
Summary of Soil Analytical Data
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)
Boring Advancements (Continued)											
B-2@30'	6/2/2005	30	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.067	<0.005	4.7
B-3@5'	6/2/2005	5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.069	<0.005	4.4
B-3@10'	6/3/2005	10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.067	<0.005	17
B-3@15'	6/3/2005	15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.069	<0.005	7.7
B-3@20'	6/3/2005	20	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.070	<0.005	7.4
B-3@25'	6/3/2005	25	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.070	<0.005	6.5
B-3@30'	6/3/2005	30	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.068	<0.005	4.3
B-3@35'	6/3/2005	35	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.070	<0.005	7
B-3@40'	6/3/2005	40	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.068	<0.005	7
B-3@45'	6/3/2005	45	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.070	<0.005	6.5
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
Notes:											
mg/kg = milligrams per kilogram			NA = not analyzed								
ug/kg = micrograms per kilogram			EDB = Ethylene Dibromide								
TPH-G = Total petroleum hydrocarbons as gasoline			1,2-DCA = 1,2-Dichloroethane								
MTBE = Methyl tert-butyl ether			sample over-excavated								

Table 2
Summary of Groundwater Analytical Data
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)	EDB (ug/l)	1,2-DCA (ug/l)	Lead (ug/l)
Groundwater Samples											
B-1@30'	6/2/2005	29-30	83	8.4	1.1	1.1	2.9	1.5	<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	<0.02	81	0.12
B-2@25'	6/2/2005	25	<50	<0.5	<0.5	<0.5	<1	<0.5	<0.02	<0.5	0.56
B-3@31'	6/3/2005	29.5-31	240	2.4	<0.5	0.73	<1	2	<0.02	0.64	NA
GRAB B-3@31'	6/3/2005	31	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	0.22
B-3@51'	6/3/2005	49-51	<50	<0.5	<0.5	<0.5	<1	<0.5	<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											
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											



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



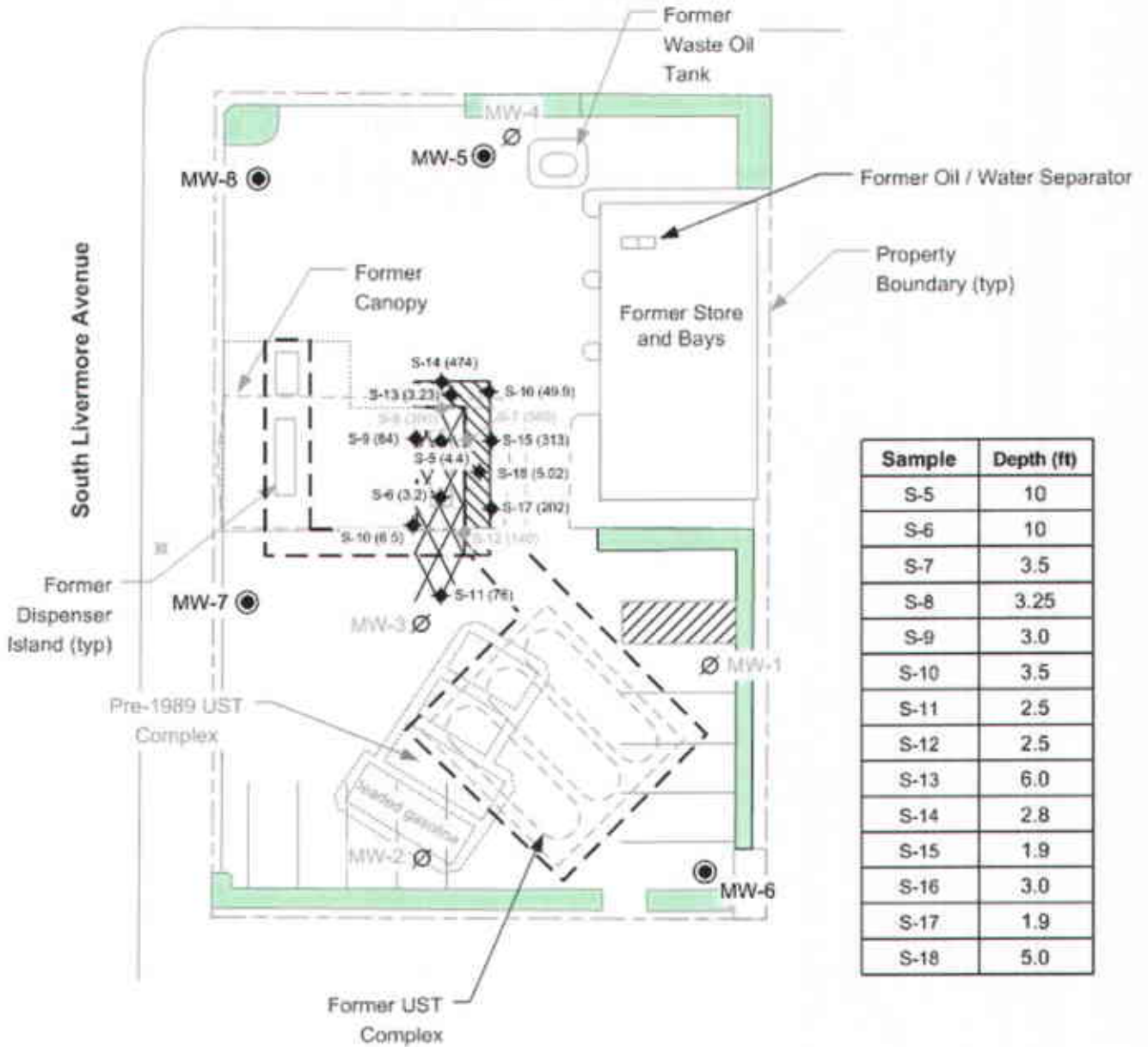
FIGURE 1
 SITE LOCATION AND WELL SURVEY MAP
 FORMER SHELL-BRANDED SERVICE STATION
 318 South Livermore Avenue
 Livermore, CA

PROJECT NO. SJJ1-BLJ-1.2005	DRAWN BY VF 92503
FILE NO. SJJ1-BLJ-1.2005	PREPARED BY VF
REVISION NO. 2	REVIEWED BY

Delta
Environmental
Consultants, Inc.



Third Street



Sample	Depth (ft)
S-5	10
S-6	10
S-7	3.5
S-8	3.25
S-9	3.0
S-10	3.5
S-11	2.5
S-12	2.5
S-13	6.0
S-14	2.8
S-15	1.9
S-16	3.0
S-17	1.9
S-18	5.0

LEGEND

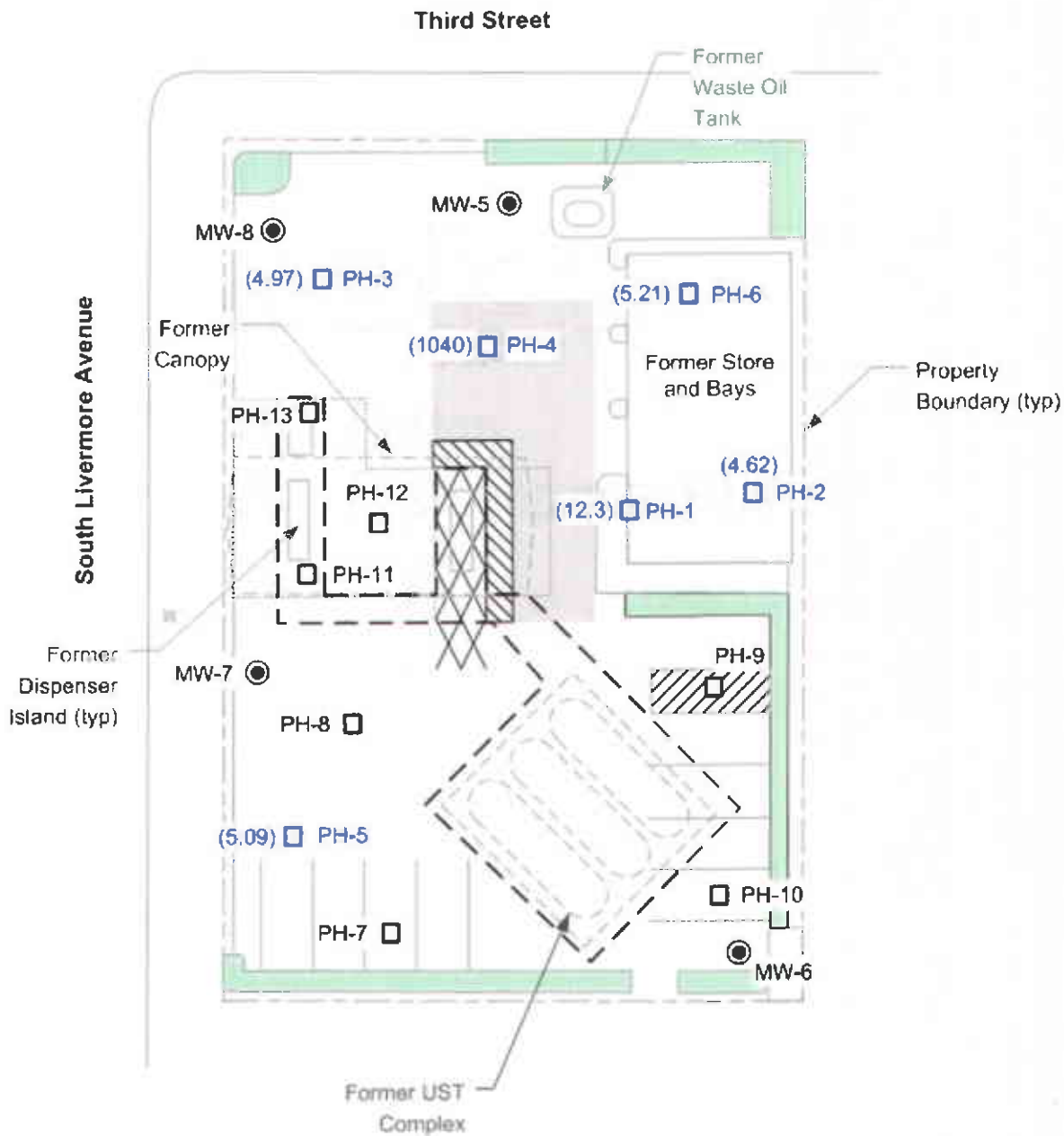
- S-6 (390) ◆ **CONFIRMATION SAMPLE - LEAD CONCENTRATION (PPM)**
- S-6 (35) ◆ **OVER-EXCAVATED CONFIRMATION SAMPLE - LEAD CONCENTRATION (PPM)**
- ▨ **EXCAVATION AREA (5-4-05)**
- ▧ **EXCAVATION AREA (5-18-05)**
- MW-6 ● **EXISTING GROUNDWATER MONITORING WELL**
- MW-3 ∅ **DESTROYED GROUNDWATER MONITORING WELL**



FIGURE 2
SITE PLAN AND OVER-EXCAVATION SAMPLING MAP
FORMER SHELL-BRANDED SERVICE STATION
318 South Livermore Avenue
Livermore, California

PROJECT NO. SJ31-SLJ-1-2005	DRAWN BY JL 06/28/05
FILE NO. SJ31-SLJ-2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY





LEGEND

PH-6 □

POTHOLE LOCATION AND DESIGNATION

(35)

(LEAD CONCENTRATION (PPM))



EXCAVATION AREA (5-4-05)



EXCAVATION AREA (5-18-05)

MW-6 ●

EXISTING GROUNDWATER MONITORING WELL



PROPOSED LIMITS OF EXCAVATION

PH-12 □

PROPOSED POTHOLE LOCATION AND DESIGNATION



APPROX SCALE

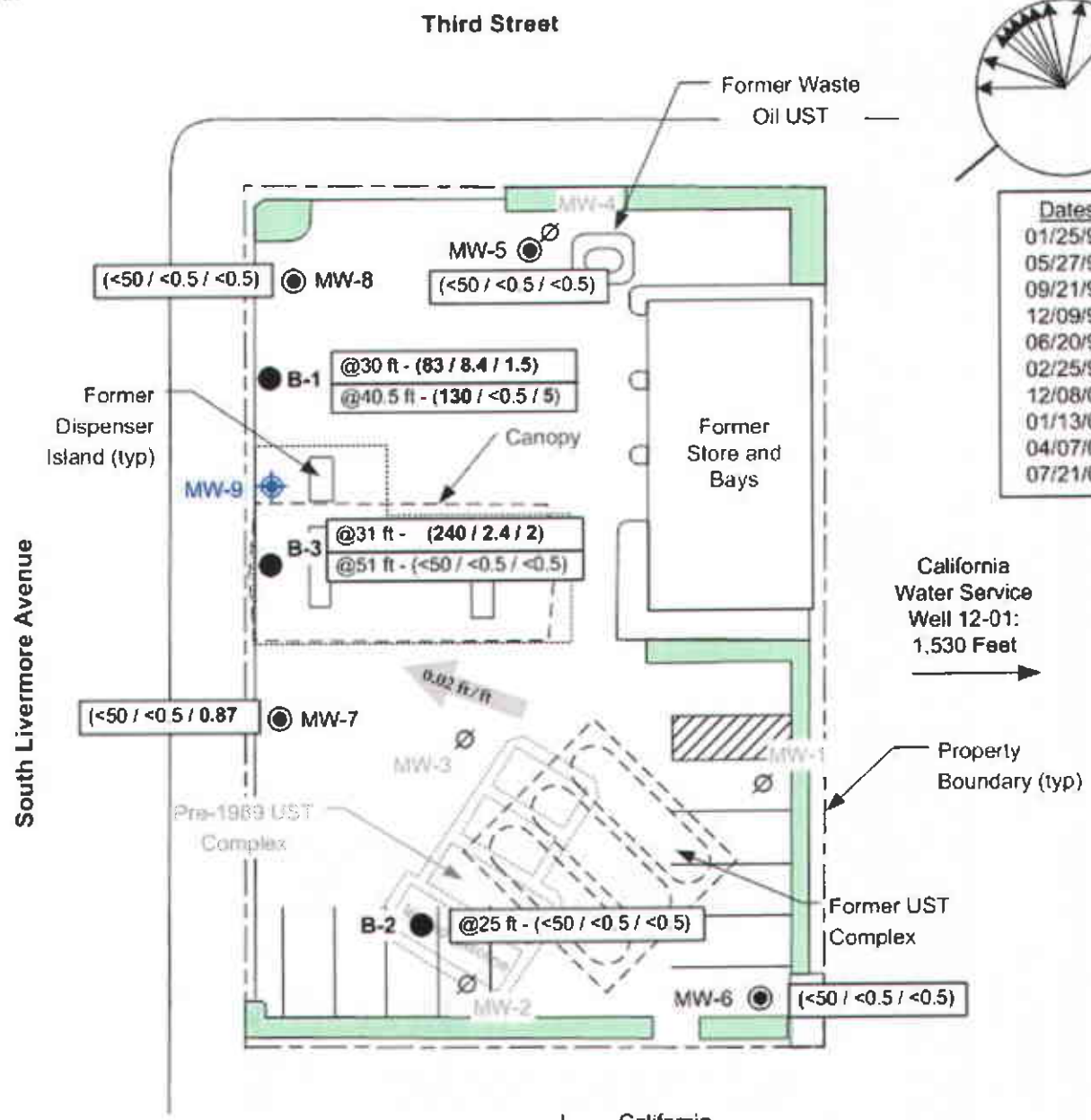
FIGURE 3
SITE PLAN AND POTHOLE SAMPLING MAP
FORMER SHELL-BRANDED SERVICE STATION
318 South Livermore Avenue
Livermore, California

PROJECT NO. SJ31-8LJ-1-2005	DRAWN BY JL 06/25/05
FILE NO. SJ31-8LJ-2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY

Delta
Environmental
Consultants, Inc.



Dates	
01/25/93	
05/27/93	
09/21/93	
12/09/93	
06/20/94	
02/25/95	
12/08/01	
01/13/04	
04/07/04	
07/21/04	



LEGEND

- MW-9 **PROPOSED ADDITIONAL GROUNDWATER MONITORING WELL**
- B-2 **SOIL BORING (JUNE 2005)**
- MW-6 **GROUNDWATER MONITORING WELL**
- MW-1 **FORMER GROUNDWATER MONITORING WELL**
- 0.012 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (4/13/05)**

(<50 / <0.5 / <0.5)

**(TPH-G/BENZENE/MTBE)
CONCENTRATIONS (UG/L)**



**FIGURE 4
CONCENTRATIONS OF TPH-G, BENZENE, AND MTBE
IN GROUNDWATER (2ND QUARTER 2005)
FORMER SHELL-BRANDED SERVICE STATION
318 South Livermore Avenue
Livermore, California**

PROJECT NO. SJ31-BLJ-1.2005	DRAWN BY JL 06/28/05
FILE NO. SJ31-BLJ-1.2005	PREPARED BY JL
REVISION NO. 1	REVIEWED BY



Attachment A

WELL CONCENTRATIONS TABLE (BLAINE)

WELL CONCENTRATIONS
Shell-branded 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-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
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

WELL CONCENTRATIONS
Shell-branded 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	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-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-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
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

WELL CONCENTRATIONS
Shell-branded 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	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

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 OVER-EXCAVATION SOIL SAMPLING

Delta Env. Consultants San Jose

May 05, 2005

175 Bernal Road, Suite 200
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: SJ31-8LI-1

Project: 97464709

Site: 318 S. Livermore Avenue, Livermore

Dear Ms. Arnold:

Attached is our report for your samples received on 05/04/2005 14:15
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
06/18/2005 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

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-5@10'	05/04/2005 10:05	Soil	1
S-6@10'	05/04/2005 10:10	Soil	2
S-7@3.5'	05/04/2005 13:00	Soil	3
S-8@3.25'	05/04/2005 13:05	Soil	4
S-9@3.0'	05/04/2005 13:08	Soil	5
S-10@3.5'	05/04/2005 13:15	Soil	6
S-11@2.5'	05/04/2005 13:20	Soil	7
S-12@2.5'	05/04/2005 13:25	Soil	8

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-5@10	Lab ID:	2005-05-0126 - 1
Sampled:	05/04/2005 10:05	Extracted:	5/4/2005 15:38
Matrix:	Soil	QC Batch#:	2005/05/04-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/04/2005 15:38	
Benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
Toluene	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/04/2005 15:38	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/04/2005 15:38	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
EDB	ND	0.0050	mg/Kg	1.00	05/04/2005 15:38	
Surrogate(s)						
1,2-Dichloroethane-d4	94.9	76-124	%	1.00	05/04/2005 15:38	
Toluene-d8	105.0	75-116	%	1.00	05/04/2005 15:38	

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

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Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-6@10	Lab ID:	2005-05-0126 - 2
Sampled:	05/04/2005 10:10	Extracted:	5/4/2005 15:58
Matrix:	Soil	QC Batch#:	2005/05/04-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/04/2005 15:58	
Benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
Toluene	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/04/2005 15:58	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/04/2005 15:58	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
EDB	ND	0.0050	mg/Kg	1.00	05/04/2005 15:58	
Surrogate(s)						
1,2-Dichloroethane-d4	99.3	76-124	%	1.00	05/04/2005 15:58	
Toluene-d8	110.6	75-116	%	1.00	05/04/2005 15:58	

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

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Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-7@3.5	Lab ID:	2005-05-0126 - 3
Sampled:	05/04/2005 13:00	Extracted:	5/4/2005 16:19
Matrix:	Soil	QC Batch#:	2005/05/04-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/04/2005 16:19	
Benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
Toluene	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/04/2005 16:19	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/04/2005 16:19	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
EDB	ND	0.0050	mg/Kg	1.00	05/04/2005 16:19	
Surrogate(s)						
1,2-Dichloroethane-d4	98.2	76-124	%	1.00	05/04/2005 16:19	
Toluene-d8	99.1	75-116	%	1.00	05/04/2005 16:19	

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

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Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-8@3.25	Lab ID:	2005-05-0126 - 4
Sampled:	05/04/2005 13:05	Extracted:	5/4/2005 16:40
Matrix:	Soil	QC Batch#:	2005/05/04-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/04/2005 16:40	
Benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
Toluene	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/04/2005 16:40	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/04/2005 16:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
EDB	ND	0.0050	mg/Kg	1.00	05/04/2005 16:40	
Surrogate(s)						
1,2-Dichloroethane-d4	102.2	76-124	%	1.00	05/04/2005 16:40	
Toluene-d8	100.6	75-116	%	1.00	05/04/2005 16:40	

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

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Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-9@3.0	Lab ID:	2005-05-0126 - 5
Sampled:	05/04/2005 13:08	Extracted:	5/4/2005 20:20
Matrix:	Soil	QC Batch#:	2005/05/04-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/04/2005 20:20	
Benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
Toluene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/04/2005 20:20	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/04/2005 20:20	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
EDB	ND	0.0050	mg/Kg	1.00	05/04/2005 20:20	
Surrogate(s)						
1,2-Dichloroethane-d4	113.6	76-124	%	1.00	05/04/2005 20:20	
Toluene-d8	103.1	75-116	%	1.00	05/04/2005 20:20	

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

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97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-10@3.5	Lab ID:	2005-05-0126 - 6
Sampled:	05/04/2005 13:15	Extracted:	5/4/2005 20:40
Matrix:	Soil	QC Batch#:	2005/05/04-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/04/2005 20:40	
Benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
Toluene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/04/2005 20:40	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/04/2005 20:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
EDB	ND	0.0050	mg/Kg	1.00	05/04/2005 20:40	
Surrogate(s)						
1,2-Dichloroethane-d4	107.5	76-124	%	1.00	05/04/2005 20:40	
Toluene-d8	104.4	75-116	%	1.00	05/04/2005 20:40	

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

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Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-11@2.5	Lab ID: 2005-05-0126 - 7
Sampled: 05/04/2005 13:20	Extracted: 5/4/2005 20:59
Matrix: Soil	QC Batch#: 2005/05/04-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/04/2005 20:59	
Benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
Toluene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/04/2005 20:59	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/04/2005 20:59	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
EDB	ND	0.0050	mg/Kg	1.00	05/04/2005 20:59	
Surrogate(s)						
1,2-Dichloroethane-d4	104.0	76-124	%	1.00	05/04/2005 20:59	
Toluene-d8	93.5	75-116	%	1.00	05/04/2005 20:59	

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

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Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-12@2.5	Lab ID: 2005-05-0126 - 8
Sampled: 05/04/2005 13:25	Extracted: 5/4/2005 21:19
Matrix: Soil	QC Batch#: 2005/05/04-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/04/2005 21:19	
Benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
Toluene	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/04/2005 21:19	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/04/2005 21:19	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
EDB	ND	0.0050	mg/Kg	1.00	05/04/2005 21:19	
Surrogate(s)						
1,2-Dichloroethane-d4	108.3	76-124	%	1.00	05/04/2005 21:19	
Toluene-d8	96.7	75-116	%	1.00	05/04/2005 21:19	

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

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Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Soil		QC Batch # 2005/05/04-1A.69
MB: 2005/05/04-1A.69-022			Date Extracted: 05/04/2005 07:22

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	05/04/2005 07:22	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	05/04/2005 07:22	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	05/04/2005 07:22	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	05/04/2005 07:22	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	05/04/2005 07:22	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	05/04/2005 07:22	
1,2-DCA	ND	0.0050	mg/Kg	05/04/2005 07:22	
EDB	ND	0.0050	mg/Kg	05/04/2005 07:22	
Benzene	ND	0.0050	mg/Kg	05/04/2005 07:22	
Toluene	ND	0.0050	mg/Kg	05/04/2005 07:22	
Ethyl benzene	ND	0.0050	mg/Kg	05/04/2005 07:22	
Total xylenes	ND	0.0050	mg/Kg	05/04/2005 07:22	
Surrogates(s)					
1,2-Dichloroethane-d4	91.8	76-124	%	05/04/2005 07:22	
Toluene-d8	110.4	75-116	%	05/04/2005 07:22	

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

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Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report					
Prep(s): 5030B		Test(s): 8260B			
Method Blank		Soil		QC Batch # 2005/05/04-2A.69	
MB: 2005/05/04-2A.69-051		Date Extracted: 05/04/2005 18:51			
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	05/04/2005 18:51	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	05/04/2005 18:51	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	05/04/2005 18:51	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	05/04/2005 18:51	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	05/04/2005 18:51	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	05/04/2005 18:51	
1,2-DCA	ND	0.0050	mg/Kg	05/04/2005 18:51	
EDB	ND	0.0050	mg/Kg	05/04/2005 18:51	
Benzene	ND	0.0050	mg/Kg	05/04/2005 18:51	
Toluene	ND	0.0050	mg/Kg	05/04/2005 18:51	
Ethyl benzene	ND	0.0050	mg/Kg	05/04/2005 18:51	
Total xylenes	ND	0.0050	mg/Kg	05/04/2005 18:51	
Surrogates(s)					
1,2-Dichloroethane-d4	95.4	76-124	%	05/04/2005 18:51	
Toluene-d8	110.8	75-116	%	05/04/2005 18:51	

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

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Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/05/04-1A.69			
LCS		2005/05/04-1A.69-003		Extracted: 05/04/2005		Analyzed: 05/04/2005 07:02			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0479		0.05	95.8			65-165	20		
Benzene	0.0516		0.05	103.2			69-129	20		
Toluene	0.0528		0.05	105.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	455		500	91.0			76-124			
Toluene-d8	504		500	100.8			75-116			

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

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Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/05/04-2A.69			
LCS		2005/05/04-2A.69-031			Extracted: 05/04/2005		Analyzed: 05/04/2005 18:31		
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)	0.0509		0.05	101.8			65-165	20		
Benzene	0.0449		0.05	89.8			69-129	20		
Toluene	0.0458		0.05	91.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	472		500	94.4			76-124			
Toluene-d8	502		500	100.4			75-116			

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

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Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Soil	QC Batch # 2005/05/04-1A.69	
MS/MSD			Lab ID: 2005-04-0750 - 020
MS: 2005/05/04-1A.69-042	Extracted: 05/04/2005	Analyzed:	05/04/2005 11:42
		Dilution:	1.00
MSD: 2005/05/04-1A.69-002	Extracted: 05/04/2005	Analyzed:	05/04/2005 12:02
		Dilution:	1.00

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0559	0.0525	0.0137	0.049603	85.1	77.8	9.0	65-165	20		
Benzene	0.0471	0.0504	ND	0.049603	95.0	101.0	6.1	69-129	20		
Toluene	0.0428	0.0473	ND	0.049603	86.3	94.8	9.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	466	455		500	93.2	91.0		76-124			
Toluene-d8	453	491		500	90.6	98.2		75-116			

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Soil	QC Batch # 2005/05/04-2A.69	
S-12@2.5' >> MS		Lab ID:	2005-05-0126 - 008
MS: 2005/05/04-2A.69-039	Extracted: 05/04/2005	Analyzed:	05/04/2005 21:39
		Dilution:	1.00
MSD: 2005/05/04-2A.69-059	Extracted: 05/04/2005	Analyzed:	05/04/2005 21:59
		Dilution:	1.00
Sample / Analysis Flag(s): MSD: NT (See Legend and Note Section)			

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0521	0.0692	ND	0.045454	114.6	154.5	29.7	65-165	20		M4,R1
Benzene	0.0468	0.0717	ND	0.045454	103.0	160.0	43.3	69-129	20		M4,R1
Toluene	0.0490	0.0660	ND	0.045454	107.8	147.3	31.0	70-130	20		M4,R1
Surrogate(s)											
1,2-Dichloroethane-d4	699	855		500	139.8	171.0		76-124		S7	S7
Toluene-d8	516	487		500	103.2	97.4		75-116			

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Legend and Notes

QC Sample Comment

Lab ID: MSD 2005/05/04/2A.69-59

TBA-D9;PENTAFLUOROBENZENE;1,4-DIFLUOROBENZENE;CHLOROBENZENE-D5 FAILED LC

Analysis Flag

N1

Internal standard out of range.

Result Flag

M4

MS/MSD spike recoveries were above acceptance limits.
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Total Lead

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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San Jose, CA 95119

Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-5@10'	05/04/2005 10:05	Soil	1
S-6@10'	05/04/2005 10:10	Soil	2
S-7@3.5'	05/04/2005 13:00	Soil	3
S-8@3.25'	05/04/2005 13:05	Soil	4
S-9@3.0'	05/04/2005 13:08	Soil	5
S-10@3.5'	05/04/2005 13:15	Soil	6
S-11@2.5'	05/04/2005 13:20	Soil	7
S-12@2.5'	05/04/2005 13:25	Soil	8

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/05/2005 14:13

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-5@10	Lab ID: 2005-05-0126 - 1
Sampled: 05/04/2005 10:05	Extracted: 5/5/2005 09:13
Matrix: Soil	QC Batch#: 2005/05/05-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.4	1.0	mg/Kg	1.00	05/05/2005 13:00	

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-6@10	Lab ID: 2005-05-0126 - 2
Sampled: 05/04/2005 10:10	Extracted: 5/5/2005 09:13
Matrix: Soil	QC Batch#: 2005/05/05-02:15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.2	1.0	mg/Kg	1.00	05/05/2005 13:04	

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	S-7@3.5	Lab ID:	2005-05-0126 -3
Sampled:	05/04/2005 13:00	Extracted:	5/5/2005 09:13
Matrix:	Soil	QC Batch#:	2005/05/05-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	560	1.0	mg/Kg	1.00	05/05/2005 13:08	

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	S-8@3.25	Lab ID:	2005-05-0126 - 4
Sampled:	05/04/2005 13:05	Extracted:	5/5/2005 09:13
Matrix:	Soil	QC Batch#:	2005/05/05-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	390	1.0	mg/Kg	1.00	05/05/2005 13:12	

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-9@3.0	Lab ID: 2005-05-0126 - 5
Sampled: 05/04/2005 13:08	Extracted: 5/5/2005 09:13
Matrix: Soil	QC Batch#: 2005/05/05-02 15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	84	1.0	mg/Kg	1.00	05/05/2005 13:15	

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-10@3.5	Lab ID: 2005-05-0126 - 6
Sampled: 05/04/2005 13:15	Extracted: 5/5/2005 09:13
Matrix: Soil	QC Batch#: 2005/05/05-02:15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.5	1.0	mg/Kg	1.00	05/05/2005 13:19	

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-11@2.5	Lab ID: 2005-05-0126 - 7
Sampled: 05/04/2005 13:20	Extracted: 5/5/2005 09:13
Matrix: Soil	QC Batch#: 2005/05/05-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	76	1.0	mg/Kg	1.00	05/05/2005 13:23	

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-12@2.5'	Lab ID: 2005-05-0126 - 8
Sampled: 05/04/2005 13:25	Extracted: 5/5/2005 09:13
Matrix: Soil	QC Batch#: 2005/05/05-02:15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	140	1.0	mg/Kg	1.00	05/05/2005 13:26	

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report					
Prep(s): 3050B				Test(s): 6010B	
Method Blank		Soil		QC Batch # 2005/05/05-02.15	
MB: 2005/05/05-02.15-059				Date Extracted: 05/05/2005 09:13	

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	05/05/2005 12:43	

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-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report					
Prep(s): 3050B			Test(s): 6010B		
Laboratory Control Spike		Soil		QC Batch # 2005/05/05-02.15	
LCS	2005/05/05-02.15-060	Extracted:	05/05/2005	Analyzed:	05/05/2005 12:46
LCSD	2005/05/05-02.15-061	Extracted:	05/05/2005	Analyzed:	05/05/2005 12:56

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	103	106	100.0	103.0	106.0	2.9	80-120	20		

1220 Quarry Lane
Pleasanton, CA 94566

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

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT DIVISION

Denis Brown

2005-05-026

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 0 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 5-4-05

PAGE: 1 of 2

CLIENT COMPANY:
elta Environmental Consultants, Inc.

JOB CODE:
KHMS

SITE ADDRESS (street and city):
318 S. Livermore Avenue, Livermore

GLOBAL ID#:
T0600156427

ADDRESS:
15 Bernal Rd, Suite 200, San Jose CA, 95119

CONTACT NAME:
Heather Buckingham

PHONE NO.:
(408) 224-4724

EMAIL:
hbuckingham@deltaenv.com

CONTACT PERSON:
obbie Arnold

PHONE NO.:
(408) 224-4724

CONTACT PERSON:
Heather Buckingham

CONSULTANT PROJECT NO.:
S/J1-811-1

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

LAB USE ONLY

CONTACT PERSON:
Jim Bobey

LAB USE ONLY

LA - RWOCB REPORT FORMAT USE AGENCY

REQUESTED ANALYSIS

KCMS MTIME CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

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

RUSH

24-hour TAT per Melissa Brewer (5-3-05)

TPH - Purgeable	TPH - Extractable (30 min)	BTEX	MTHB	IBA	6 Organics	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8160B	Semi-Volatiles by 8210C	Lead <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TELP	LUFT6 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TELP	CAM17 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> TELP	Test for Disposal
X	X	X			X	X					X			
X	X	X			X	X					X			
X	X	X			X	X					X			
X	X	X			X	X					X			
X	X	X			X	X					X			
X	X	X			X	X					X			

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT: 14

C/O JOB NO.	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	S-1 @ 5'	5-4-05	9:15	Soil	1
	S-2 @ 5'	5-4-05	9:20	Soil	1
	S-3 @ 5'	5-4-05	9:25	Soil	1
	S-4 @ 5'	5-4-05	9:40	Soil	1
	S-5 @ 10'	5-4-05	10:05	Soil	1
	S-6 @ 10'	5-4-05	10:10	Soil	1
	S-7 @ 3.5'	5-4-05	3:00	Soil	1

Requested by: (Signature)
Jim Bobey

Received by: (Signature)
[Signature]

Date: 5/4/05

Time: 14:15

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be Invoiced:

Denis Brown

2005-05-0126

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 0 9

SAP or CRMT NUMBER (S/CRMT)

DATE: 5-4-05

PAGE: 2 of 2

ANALYST COMPANY: **Kolta Environmental Consultants, Inc.**
ADDRESS: **75 Bernal Rd, Suite 200, San Jose CA, 95119**

LOC CODE: KHMS

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

GLOBAL ID NO: **T0600156427**

CLIENT NAME: **Heather Buckingham**
PHONE NO: **(408) 224-4724**
EMAIL: **hbuckingham@duell.com**

HEATHER BUCKINGHAM

CONTAINER PROTECTION

SJ31-8L1-1

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 40 HOURS 24 HOURS LESS THAN 24 HOURS

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT LIST AGENCY
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
SPECIAL INSTRUCTIONS OR NOTES: CHECKBOX IF EDD IS NOT NEEDED

RUSH

24-hour TAT per Melissa Brewer (5-3-05)

FIELD NOTES:
Container Preservative
or PID Readings
or Laboratory Notes

DATE/TIME	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Petroleum	TPH - Extractable (BTEX)	BTEX	MTBE	EPA	5 Oxygenative	1,2 DCA and SDS	Ethanol	Methanol	VOCs by 826B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Test <input type="checkbox"/> STC <input type="checkbox"/> TELP	LUPTS <input type="checkbox"/> Test <input type="checkbox"/> STC <input type="checkbox"/> TELP	CAMP <input type="checkbox"/> Test <input type="checkbox"/> STC <input type="checkbox"/> TELP	Test for Disposal	TEMPERATURE ON RECEIPT C°	
		DATE	TIME																			
	S-8 @ 3.25'	5-4-05	13:05	soil	1	X	X				X	X					X					14
	S-9 @ 3.0'	5-4-05	13:08	soil	1	X	X				X	X					X					
	S-10 @ 3.5'	5-4-05	13:15	soil	1	X	X				X	X					X					
	S-11 @ 2.5'	5-4-05	13:20	soil	1	X	X				X	X					X					
	S-12 @ 2.5'	5-4-05	13:15	soil	1	X	X				X	X					X					

Requested by (Signature): *Jim Bobey*

Received by (Signature): *Gregory B. ...*

Date: 5/4/05

Time: 14:15

Delta Env. Consultants San Jose

May 13, 2005

175 Bernal Road, Suite 200
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: SJ31-8LI-1

Project: 97464709

Site: 318 S. Livermore Avenue, Livermore

Dear Ms. Arnold:

Attached is our report for your samples received on 05/04/2005 14:15

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 06/18/2005 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-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
COMPOSITE-A,B,C,D	05/04/2005 10:30	Soil	1

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: COMPOSITE-A,B,C,D	Lab ID: 2005-05-0127 - 1
Sampled: 05/04/2005 10:30	Extracted: 5/10/2005 06:14
Matrix: Soil	QC Batch#: 2005/05/10-01_15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	ND	1.0	mg/Kg	1.00	05/10/2005 20:52	

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-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Method Blank

Soil

QC Batch # 2005/05/10-01.15

MB: 2005/05/10-01.15-112

Date Extracted: 05/10/2005 06:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	05/10/2005 15:57	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/11/2005 16:21

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-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report										
Prep(s): 3050B						Test(s): 6010B				
Laboratory Control Spike				Soil			QC Batch # 2005/05/10-01.15			
LCS		2005/05/10-01.15-113		Extracted: 05/10/2005		Analyzed: 05/10/2005 15:59				
LCSD		2005/05/10-01.15-114		Extracted: 05/10/2005		Analyzed: 05/10/2005 16:03				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	100	105	100.0	100.0	105.0	4.9	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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
COMPOSITE-A,B,C,D	05/04/2005 10:30	Soil	1

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: COMPOSITE-A,B,C,D	Lab ID: 2005-05-0127 - 1
Sampled: 05/04/2005 10:30	Extracted: 5/12/2005 15:18
Matrix: Soil	QC Batch#: 2005/05/12-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/12/2005 15:18	
Benzene	ND	0.0050	mg/Kg	1.00	05/12/2005 15:18	
Toluene	ND	0.0050	mg/Kg	1.00	05/12/2005 15:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/12/2005 15:18	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/12/2005 15:18	
Surrogate(s)						
1,2-Dichloroethane-d4	91.8	76-124	%	1.00	05/12/2005 15:18	
Toluene-d8	105.0	75-116	%	1.00	05/12/2005 15:18	

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/05/12-1A.69-024

Soil

Test(s): 8260B

QC Batch # 2005/05/12-1A.69

Date Extracted: 05/12/2005 07:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	05/12/2005 07:24	
Benzene	ND	0.0050	mg/Kg	05/12/2005 07:24	
Toluene	ND	0.0050	mg/Kg	05/12/2005 07:24	
Ethyl benzene	ND	0.0050	mg/Kg	05/12/2005 07:24	
Total xylenes	ND	0.0050	mg/Kg	05/12/2005 07:24	
Surrogates(s)					
1,2-Dichloroethane-d4	96.2	76-124	%	05/12/2005 07:24	
Toluene-d8	104.2	75-116	%	05/12/2005 07:24	

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/05/12-1A.69			
LCS	2005/05/12-1A.69-004		Extracted: 05/12/2005			Analyzed: 05/12/2005 07:04			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	0.0561		0.05	112.2			69-129	20		
Toluene	0.0508		0.05	101.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	437		500	87.4			76-124			
Toluene-d8	552		500	110.4			75-116			

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s):	5030B	Test(s): 8260B	
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/05/12-1A.69
MS/MSD		Lab ID:	2005-05-0005 - 013
MS:	2005/05/12-1A.69-028	Extracted:	05/12/2005
		Analyzed:	05/12/2005 08:28
		Dilution:	1.00
MSD:	2005/05/12-1A.69-047	Extracted:	05/12/2005
		Analyzed:	05/12/2005 08:47
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	40.6	47.2	ND	49.8	81.5	96.1	16.4	69-129	20		
Toluene	38.1	48.3	ND	49.8	76.5	98.4	25.0	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	439	453		500	87.8	90.6		76-124	0		
Toluene-d8	470	539		500	94.0	107.8		75-116	0		

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

Delta Env. Consultants San Jose

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San Jose, CA 95119

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Project: SJ31-8LI-1
97464709

Received: 05/04/2005 14:15

Site: 318 S. Livermore Avenue, Livermore

Legend and Notes

Result Flag

R1

Analyte RPD was out of QC limits.

114795

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT/CRMTM

Denis Brown

2005-05-0127

INCIDENT NUMBER (SEE ONLY)

9 7 4 6 4 7 0 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 5-4-05

PAGE: 1 of 1

ANALYST COMPANY: Delta Environmental Consultants, Inc.
Address: 75 Bernal Rd, Suite 200, San Jose CA, 95119

LAB CODE: KHMS

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

GLOBAL ID#: T0600156427

PROJECT CONTACT (Send copy of RPT Report to):

ebble Arnold

Heather Buckingham

(408) 224-4724

hbuckingham@deltaenv.com

CUSTOMER PROJECT NO.:

SJ31-811-1

TELEPHONE:

(08) 224-4724

FAX:

(408) 226-6606

E-MAIL:

edarnold@deltaenv.com

Jim Bobay

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 LIST AGENCY

SCAMS MATR CONFIRMATION: HIGHEST: _____ HIGHEST PER BORING: _____ ALL

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EGG IS NOT NEEDED

REQUESTED ANALYSIS

TPH Purgable	TPH Extractable (60' 6m)	STEX	MTSE	IBA	5 Oxygenates	12 DCA and RDB	Ethanol	Methanol	VOCs by 8270C	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STIC <input type="checkbox"/> TOLP	LUFS <input type="checkbox"/> Total <input type="checkbox"/> STIC <input type="checkbox"/> TOLP	CAMS <input type="checkbox"/> Total <input type="checkbox"/> STIC <input type="checkbox"/> TOLP	Test for Disposal
X	X										X			

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

TEMPERATURE ON RECEIPT °C

14

Field Sample Identification

SAMPLING DATE TIME MATRIX NO. OF CONT.

Composite - A, B, C, D

5-4-05 10:30 Soil 1

Requested by: (Signature) *Jim Bobay*

Received by: (Signature) *Lucy B. Burke*

Date: 5/4/05

Time: 14:15

Requested by: (Signature)

Received by: (Signature)

Date:

Time:

Delta Env. Consultants San Jose

May 09, 2005

175 Bernal Road, Suite 200
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: SJ31-8LI-1

Project: 97464709

Site: 318 S. Livermore Avenue, Livermore

Dear Ms. Arnold:

Attached is our report for your samples received on 05/06/2005 13:55

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 06/20/2005 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-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1 @ 5 FEET	05/04/2005 09:15	Soil	1
S-2 @ 5 FEET	05/04/2005 09:20	Soil	2
S-3 @ 5 FEET	05/04/2005 09:25	Soil	3
S-4 @ 5 FEET	05/04/2005 09:40	Soil	4

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-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-1 @ 5 FEET	Lab ID: 2005-05-0214 - 1
Sampled: 05/04/2005 09:15	Extracted: 5/9/2005 05:57
Matrix: Soil	QC Batch#: 2005/05/09-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.4	1.0	mg/Kg	1.00	05/09/2005 12:38	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-2 @ 5 FEET	Lab ID: 2005-05-0214 - 2
Sampled: 05/04/2005 09:20	Extracted: 5/9/2005 05:57
Matrix: Soil	QC Batch#: 2005/05/09-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.4	1.0	mg/Kg	1.00	05/09/2005 12:42	

Total Lead

Delta Env. Consultants San Jose
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San Jose, CA 95119
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Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	S-3 @ 5 FEET	Lab ID:	2005-05-0214 - 3
Sampled:	05/04/2005 09:25	Extracted:	5/9/2005 05:57
Matrix:	Soil	QC Batch#:	2005/05/09-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	11	1.0	mg/Kg	1.00	05/09/2005 12:46	

Total Lead

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

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San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: S-4 @ 5 FEET	Lab ID: 2005-05-0214 - 4
Sampled: 05/04/2005 09:40	Extracted: 5/9/2005 05:57
Matrix: Soil	QC Batch#: 2005/05/09-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	8.0	1.0	mg/Kg	1.00	05/09/2005 12:49	

Total Lead

Delta Env. Consultants San Jose
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San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report					
Prep(s): 3050B				Test(s): 6010B	
Method Blank		Soil		QC Batch # 2005/05/09-02.15	
MB: 2005/05/09-02.15-052				Date Extracted: 05/09/2005 05:57	

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	05/09/2005 12:28	

Total Lead

Delta Env. Consultants San Jose
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Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 3050B					Test(s): 6010B				
Laboratory Control Spike			Soil			QC Batch # 2005/05/09-02-15			
LCS	2005/05/09-02-15-053		Extracted: 05/09/2005			Analyzed: 05/09/2005 12:31			
LCSD	2005/05/09-02-15-054		Extracted: 05/09/2005			Analyzed: 05/09/2005 12:35			

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	105	106	100.0	105.0	106.0	0.9	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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1 @ 5 FEET	05/04/2005 09:15	Soil	1
S-2 @ 5 FEET	05/04/2005 09:20	Soil	2
S-3 @ 5 FEET	05/04/2005 09:25	Soil	3
S-4 @ 5 FEET	05/04/2005 09:40	Soil	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/09/2005 15:15

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) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-1 @ 5 FEET	Lab ID:	2005-05-0214 - 1
Sampled:	05/04/2005 09:15	Extracted:	5/7/2005 23:56
Matrix:	Soil	QC Batch#:	2005/05/07-3A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/07/2005 23:56	
Benzene	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
Toluene	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/07/2005 23:56	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/07/2005 23:56	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
EDB	ND	0.0050	mg/Kg	1.00	05/07/2005 23:56	
Surrogate(s)						
1,2-Dichloroethane-d4	110.3	76-124	%	1.00	05/07/2005 23:56	
Toluene-d8	95.4	75-116	%	1.00	05/07/2005 23:56	

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

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Project: SJ31-8LI-1

97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-2 @ 5 FEET	Lab ID:	2005-05-0214 - 2
Sampled:	05/04/2005 09:20	Extracted:	5/8/2005 00:16
Matrix:	Soil	QC Batch#:	2005/05/07-3A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/08/2005 00:16	
Benzene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
Toluene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/08/2005 00:16	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/08/2005 00:16	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
EDB	ND	0.0050	mg/Kg	1.00	05/08/2005 00:16	
Surrogate(s)						
1,2-Dichloroethane-d4	104.7	76-124	%	1.00	05/08/2005 00:16	
Toluene-d8	107.1	75-116	%	1.00	05/08/2005 00:16	

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

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Project: SJ31-8LI-1

97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-3 @ 5 FEET	Lab ID: 2005-05-0214 - 3
Sampled: 05/04/2005 09:25	Extracted: 5/8/2005 00:36
Matrix: Soil	QC Batch#: 2005/05/07-3A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/08/2005 00:36	
Benzene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
Toluene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/08/2005 00:36	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/08/2005 00:36	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
EDB	ND	0.0050	mg/Kg	1.00	05/08/2005 00:36	
Surrogate(s)						
1,2-Dichloroethane-d4	105.3	76-124	%	1.00	05/08/2005 00:36	
Toluene-d8	90.0	75-116	%	1.00	05/08/2005 00:36	

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

Delta Env. Consultants San Jose

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San Jose, CA 95119

Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-4 @ 5 FEET	Lab ID: 2005-05-0214 - 4
Sampled: 05/04/2005 09:40	Extracted: 5/8/2005 00:57
Matrix: Soil	QC Batch#: 2005/05/07-3A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	05/08/2005 00:57	
Benzene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
Toluene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	05/08/2005 00:57	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	05/08/2005 00:57	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
1,2-DCA	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
EDB	ND	0.0050	mg/Kg	1.00	05/08/2005 00:57	
Surrogate(s)						
1,2-Dichloroethane-d4	106.6	76-124	%	1.00	05/08/2005 00:57	
Toluene-d8	83.9	75-116	%	1.00	05/08/2005 00:57	

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

Delta Env. Consultants San Jose

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Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank		Soil	QC Batch # 2005/05/07-3A.69
MB: 2005/05/07-3A.69-029			Date Extracted: 05/07/2005 19:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	05/07/2005 19:29	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	05/07/2005 19:29	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	05/07/2005 19:29	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	05/07/2005 19:29	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	05/07/2005 19:29	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	05/07/2005 19:29	
1,2-DCA	ND	0.0050	mg/Kg	05/07/2005 19:29	
EDB	ND	0.0050	mg/Kg	05/07/2005 19:29	
Benzene	ND	0.0050	mg/Kg	05/07/2005 19:29	
Toluene	ND	0.0050	mg/Kg	05/07/2005 19:29	
Ethyl benzene	ND	0.0050	mg/Kg	05/07/2005 19:29	
Total xylenes	ND	0.0050	mg/Kg	05/07/2005 19:29	
Surrogates(s)					
1,2-Dichloroethane-d4	96.3	76-124	%	05/07/2005 19:29	
Toluene-d8	112.0	75-116	%	05/07/2005 19:29	

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

Delta Env. Consultants San Jose
Attn.: Debbie Arnold

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Project: SJ31-8LI-1
97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2005/05/07-3A.69			
LCS	2005/05/07-3A.69-010		Extracted: 05/07/2005			Analyzed: 05/07/2005 19:10			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0466		0.049701	93.8			65-165	20		
Benzene	0.0460		0.049701	92.6			69-129	20		
Toluene	0.0496		0.049701	99.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	483		500	96.6			76-124			
Toluene-d8	536		500	107.2			75-116			

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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San Jose, CA 95119

Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ31-8LI-1

97464709

Received: 05/06/2005 13:55

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/05/07-3A.69
MS/MSD		Lab ID:	2005-04-0856 - 001
MS:	2005/05/07-3A.69-039	Extracted:	05/07/2005 21:39
		Dilution:	1.00
MSD:	2005/05/07-3A.69-058	Extracted:	05/07/2005 21:58
		Dilution:	1.00

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0406	0.0427	ND	0.046904	86.6	87.9	1.5	65-165	20		
Benzene	0.0455	0.0464	ND	0.046904	97.0	95.4	1.7	69-129	20		
Toluene	0.0436	0.0500	ND	0.046904	93.0	102.9	10.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	466	477		500	93.2	95.3		76-124			
Toluene-d8	506	562		500	101.2	112.4		75-116			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/09/2005 15:15

SHELL Chain Of Custody Record

114873

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
- CORE HOUSTON

Denis Brown

2005-05-0214

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 0 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 5-6-05

PAGE: 1 of 1

ANALYST COMPANY: Jalla Environmental Consultants, Inc. ICM/MS SITE ADDRESS (Street and City): 318 S. Livermore Avenue, Livermore GLOBAL ID NO.: T0600156427

ADDRESS: 75 Bernal Rd, Suite 200, San Jose CA, 95119 ICM/MS ICM DELIVERABLE TO (Designated Party at Site/Phone): Heather Buckingham PHONE NO: (408) 224-4724 E-MAIL: hbuckingham@jallaecon.com COLLECTION PRODUCT NO.: SJ31-811-1

CONTACT PERSON: Iobbie Arnold TELEPHONE: (408) 224-4724 FAX: (408) 226-8806 E-MAIL: jarnold@jallaecon.com SAMPLER NAME(S) (If any): Jim Sobey LAB USE ONLY

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

REQUESTED ANALYSIS

IA - RYOCB REPORT FORMAT LIST AGENCY
 COMMENTS CONFIRMATION: HIGHEST _____ HIGHEST per HORNO _____ ALL _____
 SPECIAL INSTRUCTIONS OR NOTES: _____ CHECK BOX IF EDD IS NOT NEEDED:

FIELD NOTES:

Container/Preservative
or PID Readings
or Laboratory Notes

Results due Monday morning, per M. Brewer

LAB USE ONLY	Field Sample Identification	SAMPLING		MTRX	NO. OF CONT.	TPH - Purgable	TPH - Extractable (RP/SM)	STEX	MYBE	ISA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Test <input type="checkbox"/> STLS <input type="checkbox"/> TOLP	LUTS <input type="checkbox"/> Test <input type="checkbox"/> STLC <input type="checkbox"/> TOLP	CART <input type="checkbox"/> Test <input type="checkbox"/> STLC <input type="checkbox"/> TOLP	Test for Disposal	TEMPERATURE ON RECEIPT °C	
		DATE	TIME																			
	S-1 @ 5 feet	5/4/05	9:18a	S	1	X		X			X	X						X				
	S-2 @ 5 feet	5/4/05	9:20a	S	1	X		X			X	X						X				
	S-3 @ 5 feet	5/4/05	9:25a	S	1	X		X			X	X						X				
	S-4 @ 5 feet	5/4/05	9:40a	S	1	X		X			X	X						X				
RUSH																						

Requested by: (Signature) <i>R. Arnold</i>	Requested by: (Signature) <i>[Signature]</i>	Date: 5/6/05	Time: 1355
Requested by: (Signature) <i>[Signature]</i>	Requested by: (Signature) <i>[Signature]</i>	Date: 5/6/05	Time: 1624
Requested by: (Signature) <i>[Signature]</i>	Requested by: (Signature) <i>[Signature]</i>	Date: 5/6/05	Time: 1624



Report Number : 43837

Date : 5/19/2005

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

Subject : 6 Soil Samples
Project Name : 318 S. Livermore Avenue, Livermore
Project Number : SJ31-8LI-1
P.O. Number : 97464709

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,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 43837

Date : 5/19/2005

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1

Sample : S-13 @ 6 ft

Matrix : Soil

Lab Number : 43837-01

Sample Date : 5/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/18/2005
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	5/18/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/18/2005
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	5/18/2005
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	5/18/2005

Approved By:


Joel Kiff



Report Number : 43837

Date : 5/19/2005

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1

Sample : S-14 @ 2.8 ft

Matrix : Soil

Lab Number : 43837-02

Sample Date : 5/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/19/2005
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	5/19/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	5/19/2005
Dibromofluoromethane (Surr)	109		% Recovery	EPA 8260B	5/19/2005
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	5/19/2005

Approved By:

Joel Kiff



Report Number : 43837

Date : 5/19/2005

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1


Sample : S-15 @ 1.9 ft

Matrix : Soil

Lab Number : 43837-03

Sample Date : 5/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/19/2005
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/19/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/19/2005
Dibromofluoromethane (Surr)	109		% Recovery	EPA 8260B	5/19/2005
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	5/19/2005

Approved By:  Joel Kiff



Report Number : 43837

Date : 5/19/2005

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1

Sample : S-16 @ 3 ft

Matrix : Soil

Lab Number : 43837-04

Sample Date :5/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/18/2005
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/18/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	5/18/2005
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	5/18/2005
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	5/18/2005

Approved By:


Joel Kiff



Report Number : 43837

Date : 5/19/2005

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1

Sample : S-17 @ 1.9 ft

Matrix : Soil

Lab Number : 43837-05

Sample Date : 5/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/19/2005
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	5/19/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/19/2005
Dibromofluoromethane (Surr)	109		% Recovery	EPA 8260B	5/19/2005
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	5/19/2005

Approved By:

Joel Kiff



Report Number : 43837

Date : 5/19/2005

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1

Sample : S-18 @ 5 ft

Matrix : Soil

Lab Number : 43837-06

Sample Date : 5/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/19/2005
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	5/19/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/19/2005
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	5/19/2005
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	5/19/2005

Approved By:

Joel Kiff

QC Report : Method Blank Data

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1

Report Number : 43837

Date : 5/19/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/18/2005
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/18/2005
Toluene - d8 (Surr)	101		%	EPA 8260B	5/18/2005
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	5/18/2005
Dibromofluoromethane (Surr)	107		%	EPA 8260B	5/18/2005
1,2-Dichloroethane-d4 (Surr)	105		%	EPA 8260B	5/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

2795 2nd St. Suite 300 Davis. CA 95616 530-297-4800

Report Number : 43837

Date : 5/19/2005

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 318 S. Livermore Avenue,

Project Number : SJ31-8LI-1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	43837-01	<0.0050	0.0377	0.0396	0.0364	0.0387	mg/Kg	EPA 8260B	5/18/05	96.6	97.8	1.27	70-130	25
Toluene	43837-01	<0.0050	0.0377	0.0396	0.0390	0.0412	mg/Kg	EPA 8260B	5/18/05	103	104	0.697	70-130	25
Tert-Butanol	43837-01	<0.0050	0.189	0.198	0.195	0.206	mg/Kg	EPA 8260B	5/18/05	103	104	0.612	70-130	25
Methyl-t-Butyl Ether	43837-01	<0.0050	0.0377	0.0396	0.0352	0.0372	mg/Kg	EPA 8260B	5/18/05	93.4	93.9	0.562	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 43837

Date : 5/19/2005

Project Name : 318 S. Livermore Avenue,

Project Number : SJ31-8LI-1

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0374	mg/Kg	EPA 8260B	5/18/05	96.4	70-130
Toluene	0.0374	mg/Kg	EPA 8260B	5/18/05	102	70-130
Tert-Butanol	0.187	mg/Kg	EPA 8260B	5/18/05	95.1	70-130
Methyl-t-Butyl Ether	0.0374	mg/Kg	EPA 8260B	5/18/05	90.2	70-130

KIFF ANALYTICAL, LLC

Approved By: 
Joel Kiff

Calscience
Environmental
Laboratories, Inc.



May 19, 2005

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

Subject: **Calscience Work Order No.: 05-05-1282**
Client Reference: **318 S. Livermore Avenue, Livermore**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/19/2005 and analyzed in accordance with the attached chain-of-custody.

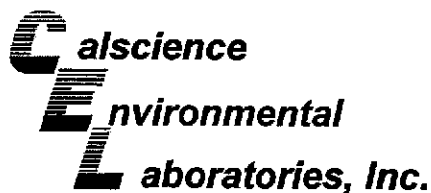
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows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



Analytical Report



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

Date Received: 05/19/05
Work Order No: 05-05-1282
Preparation: EPA 3050B
Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S-13@6ft	05-05-1282-1	05/18/05	Solid	05/19/05	05/19/05	050519L03

Parameter	Result	RL	DF	Qual	Units
Lead	3.23	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S-14@2.8ft	05-05-1282-2	05/18/05	Solid	05/19/05	05/19/05	050519L03

Parameter	Result	RL	DF	Qual	Units
Lead	474	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S-15@1.9ft	05-05-1282-3	05/18/05	Solid	05/19/05	05/19/05	050519L03

Parameter	Result	RL	DF	Qual	Units
Lead	313	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S-16@3ft	05-05-1282-4	05/18/05	Solid	05/19/05	05/19/05	050519L03

Parameter	Result	RL	DF	Qual	Units
Lead	49.9	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S-17@1.9ft	05-05-1282-5	05/18/05	Solid	05/19/05	05/19/05	050519L03

Parameter	Result	RL	DF	Qual	Units
Lead	202	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
S-18@5ft	05-05-1282-6	05/18/05	Solid	05/19/05	05/19/05	050519L03

Parameter	Result	RL	DF	Qual	Units
Lead	5.02	0.50	1		mg/kg

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

Analytical Report



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

Date Received: 05/19/05
 Work Order No: 05-05-1282
 Preparation: EPA 3050B
 Method: EPA 6010B

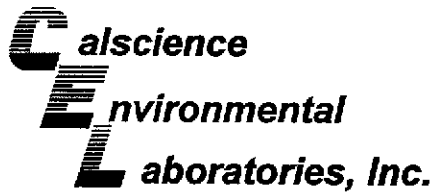
Project: 318 S. Livermore Avenue, Livermore

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-002-6,407	N/A	Solid	05/19/05	05/19/05	050519L03

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

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



Quality Control - Spike/Spike Duplicate



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

Date Received: 05/19/05
Work Order No: 05-05-1282
Preparation: EPA 3050B
Method: EPA 6010B

Project 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-13@6ft	Solid	ICP 3300	05/19/05	05/19/05	050519S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	103	107	75-125	3	0-20	

RPD - Relative Percent Difference, CL - Control Limit

Calscience
Environmental Laboratories, Inc. **Quality Control - Laboratory Control Sample**



Kiff Analytical	Date Received:	N/A
2795 2nd Street, Suite 300	Work Order No:	05-05-1282
Davis, CA 95616-6593	Preparation:	EPA 3050B
	Method:	EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-6,407	Solid	ICP 3300	05/19/05	050519-1-03	050519L03

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	50.0	54.1	108	80-120	

RPD - Relative Percent Difference, CL - Control Limit

Glossary of Terms and Qualifiers



Work Order Number: 05-05-1282

<u>Qualifier</u>	<u>Definition</u>
*	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.



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. 1282

Page 1 of 1

Project Contact (Hardcopy or PDF to): Joel Kiff Geotracker COELT EDD REPORT? X YES NO

Chain-of-Custody Record and Analysis Request

Company/Address: Kiff Analytical, LLC Sampling Company Log Code: KHMS

Phone No.: FAX No.: Global ID: T0600156427

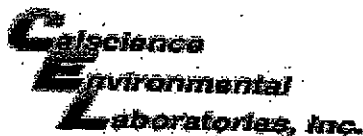
Project Number: SJ31-8LI-1 P.O. No.: 43837 EDF Deliverable to (Email Address): inbox@kiffanalytical.com

Project Name: 318 S. Livermore Avenue, Livermore E-mail address: inbox@kiffanalytical.com

Project Address: Sampling Container Preservative Matrix

Sample Designation	Sampling		Container					Preservative				Matrix			TOTAL LEAD							Date Due:	
	Date	Time	Glass Jar	Poly	Glass	Sleeve	Tedlar	H ₂ SO ₄	HNO ₃	ICE	NONE	Na ₂ S ₂ O ₃	WATER	SOIL									
S-13 @ 6 ft	5/18/05	9:45	1						X	X			X								X		
S-14 @ 2.8 ft	5/18/05	10:00	1						X	X			X								X		
S-15 @ 1.9 ft	5/18/05	10:25	1						X	X			X								X		
S-16 @ 3 ft	5/18/05	10:40	1						X	X			X								X		
S-17 @ 1.9 ft	5/18/05	11:15	1						X	X			X								X		
S-18 @ 5 ft	5/18/05	11:35	1						X	X			X								X		

Relinquished by: <u>[Signature]</u> Kiff Analytical	Date: <u>05/18/05</u>	Time: <u>19:00</u>	Received by:	Remarks: *THIS IS A SHELL PROJECT. RUSH TAT OKAY BY STEVE NOWAK.
Relinquished by:	Date:	Time:	Received by:	
Relinquished by: <u>[Signature]</u>	Date: <u>5-19-05</u>	Time: <u>8:00</u>	Received by Laboratory: <u>Webster Co</u>	



WORK ORDER #:

05 - 05 - 1282

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF ANALYTICAL

DATE: 5-19-05

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):

- 3.9 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

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

Initial: WB

SAMPLE CONDITION:

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

Initial: WB

COMMENTS:

720 Olive Drive, Suite D
Davis, CA 95616

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

INCIDENT NUMBER (SAFE ONLY)

9 7 4 6 4 7 0 9

SAP OF CRMT NUMBER (TS/CRMT)

DATE: 5-18-05

PAGE: 1 of 1

SAMPLING COMPANY: Delta Environmental Consultants, Inc.		LOG CODE: KHMS	SITE ADDRESS (Street and City): 318 S. Livermore Avenue, Livermore		GLOBAL ID NO.: T0600156427
ADDRESS: 175 Bernal Rd, Suite 200, San Jose CA, 95119		EDF DELIVERABLE TO (Responsible Party or Designee): Heather Buckingham		PHONE NO.: (408) 224-4724	CONSULTANT PROJECT NO.: SJ31-8LI-1
PROJECT CONTACT (Hardcopy or PDF Report to): Debbie Arnold		SAMPLER NAME(S) (Print): Jim Bobey Debbie Arnold		E-MAIL: hbuckingham@deltacnv.com	
TELEPHONE: (408) 224-4724	FAX: (408) 226-8506	E-MAIL: darnold@deltacnv.com		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 LST AGENCY:

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

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

24-TAT, per Troy Turpin

Results due Monday morning, per M. Brown

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8018m)	BTEX	MTBE	1BA	6 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TOLP	LUFT6 <input type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TOLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TOLP	Test for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT °C	
		DATE	TIME																				
	S-13 @ 6 ft	5/18	9:45a	S	1	X	X				X	X					X						01
	S-14 @ 2.8 ft		10am			X	X				X	X					X						02
	S-15 @ 1.9 ft		10:25a			X	X				X	X					X						03
	S-16 @ 3 ft		10:40a			X	X				X	X					X						04
	S-17 @ 1.9 ft		11:15a			X	X				X	X					X						05
	S-18 @ 5 ft		11:35a			X	X				X	X					X						06

Relinquished by: (Signature) <i>D. Arnold</i>	Received by: (Signature) _____	Date: _____	Time: _____
Relinquished by: (Signature) _____	Received by: (Signature) _____	Date: _____	Time: _____
Relinquished by: (Signature) _____	Received by: (Signature) <i>Jason N. Hernandez</i>	Date: 051805	Time: 1150



Report Number : 43894

Date : 5/20/2005

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

Subject : 1 Soil Sample
Project Name : 318 S. Livermore Avenue, Livermore
Project Number : SJ31-8LI-1
P.O. Number : 97464709

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



Report Number : 43894

Date : 5/20/2005

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1

Sample : Composite E, F, G

Matrix : Soil

Lab Number : 43894-01

Sample Date :5/18/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/19/2005
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	5/19/2005
4-Bromofluorobenzene (Surr)	86.0		% Recovery	EPA 8260B	5/19/2005

Approved By:


Joel Kiff

QC Report : Method Blank Data

Project Name : 318 S. Livermore Avenue, Livermore

Project Number : SJ31-8LI-1

Report Number : 43894

Date : 5/20/2005

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	5/19/2005
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	5/19/2005
Toluene - d8 (Surr)	99.0		%	EPA 8260B	5/19/2005
4-Bromofluorobenzene (Surr)	87.2		%	EPA 8260B	5/19/2005

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
------------------	-----------------------	-------------------------------	--------------	------------------------	----------------------

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 43894

Date : 5/20/2005

Project Name : 318 S. Livermore Avenue,

Project Number : SJ31-8LI-1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	43837-02	<0.0050	0.0395	0.0393	0.0454	0.0448	mg/Kg	EPA 8260B	5/19/05	115	114	0.917	70-130	25
Toluene	43837-02	<0.0050	0.0395	0.0393	0.0432	0.0423	mg/Kg	EPA 8260B	5/19/05	109	108	1.51	70-130	25
Methyl-t-Butyl Ether	43837-02	<0.0050	0.0395	0.0393	0.0405	0.0400	mg/Kg	EPA 8260B	5/19/05	102	102	0.840	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  _____
 Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 43894


Date : 5/20/2005

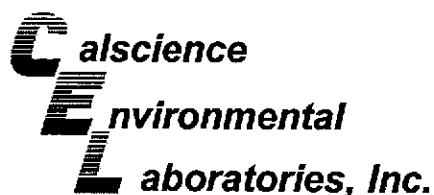
Project Name : 318 S. Livermore Avenue,

Project Number : SJ31-8LI-1

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0396	mg/Kg	EPA 8260B	5/19/05	114	70-130
Toluene	0.0396	mg/Kg	EPA 8260B	5/19/05	110	70-130
Methyl-t-Butyl Ether	0.0396	mg/Kg	EPA 8260B	5/19/05	99.4	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joe Kiff



Supplemental Report 1

May 27, 2005

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

Subject: **Calscience Work Order No.: 05-05-1381**
Client Reference: **318 S. Livermore Avenue, Livermore**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/20/2005 and analyzed in accordance with the attached chain-of-custody.

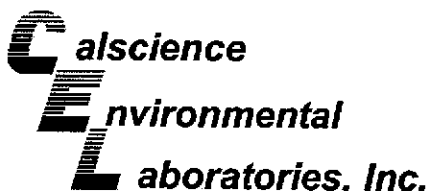
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows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

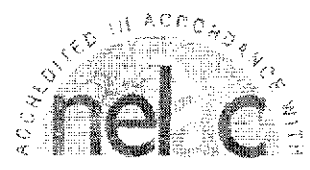
Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager



Analytical Report



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

Date Received: 05/20/05
 Work Order No: 05-05-1381
 Preparation: EPA 3050B
 Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Page 1 of 1

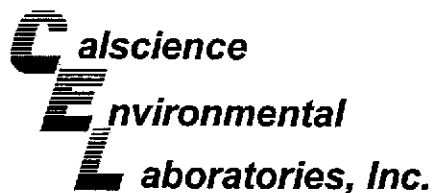
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite E, F, G	05-05-1381-1	05/18/05	Solid	05/20/05	05/24/05	050520L04

Parameter	Result	RL	DF	Qual	Units
Lead	117	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-002-6,411	N/A	Solid	05/20/05	05/20/05	050520L04

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

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



Analytical Report



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

Date Received: 05/20/05
Work Order No: 05-05-1381
Preparation: EPA 1311
Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite E, F, G	05-05-1381-1	05/18/05	Solid	05/24/05	05/25/05	050525L01

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-05-001-2,760	N/A	Solid	05/24/05	05/25/05	050525L01

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

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

Analytical Report



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

Date Received: 05/20/05
 Work Order No: 05-05-1381
 Preparation: CAC 66261.126
 Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Page 1 of 1

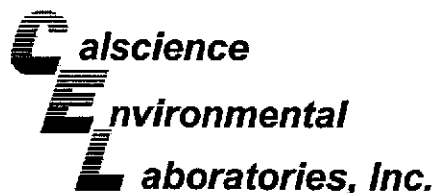
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite E, F, G	05-05-1381-1	05/18/05	Solid	05/24/05	05/26/05	050526L02

Parameter	Result	RL	DF	Qual	Units
Lead	4.17	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-05-006-2.782	N/A	Solid	05/24/05	05/26/05	050526L02

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

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



Analytical Report



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

Date Received: 05/20/05
 Work Order No: 05-05-1381
 Preparation: DHS LUFT
 Method: DHS LUFT

Project: 318 S. Livermore Avenue, Livermore

Page 1 of 1

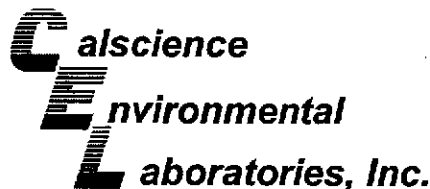
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Composite E, F, G	05-05-1381-1	05/18/05	Solid	05/26/05	05/26/05	050526L07

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-020-412	N/A	Solid	05/26/05	05/26/05	050526L07

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	1.00	1		mg/kg

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



Quality Control - Spike/Spike Duplicate



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

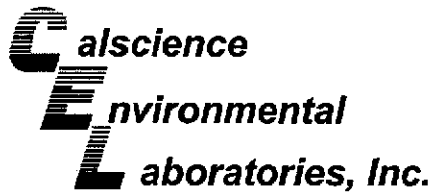
Date Received: 05/20/05
 Work Order No: 05-05-1381
 Preparation: EPA 3050B
 Method: EPA 6010B

Project 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-05-1378-2	Solid	ICP 3300	05/20/05	05/24/05	050520S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	104	106	75-125	2	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

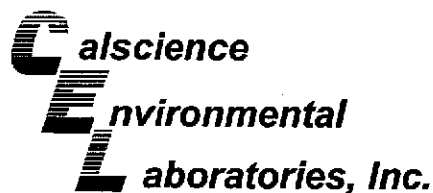
Date Received: 05/20/05
Work Order No: 05-05-1381
Preparation: EPA 1311
Method: EPA 6010B

Project 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Composite E, F, G	Solid	ICP 3300	05/24/05	05/25/05	050525S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	102	102	75-125	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

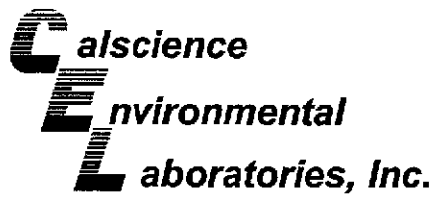
Date Received: 05/20/05
Work Order No: 05-05-1381
Preparation: CAC 66261.126
Method: EPA 6010B

Project 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Composite E, F, G	Solid	ICP 3300	05/24/05	05/26/05	050526S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	85	89	75-125	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Kiff Analytical	Date Received:	05/20/05
2795 2nd Street, Suite 300	Work Order No:	05-05-1381
Davis, CA 95616-6593	Preparation:	DHS LUFT
	Method:	DHS LUFT

Project 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-05-1471-1	Solid	FLAA	05/26/05	05/26/05	050526S07

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	72	73	22-148	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience
Environmental Laboratories, Inc. Quality Control - Laboratory Control Sample



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

Date Received: N/A
 Work Order No: 05-05-1381
 Preparation: EPA 3050B
 Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-6,411	Solid	ICP 3300	05/20/05	050520-j-04	050520L04

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	50.0	51.6	103	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience

Environmental

Laboratories, Inc.

Quality Control - Laboratory Control Sample



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

Date Received: N/A
Work Order No: 05-05-1381
Preparation: EPA 1311
Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-05-001-2,760	Solid	ICP 3300	05/25/05	050525-1-01	050525L01

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	10.0	9.97	100	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience
Environmental Laboratories, Inc. **Quality Control - Laboratory Control Sample**



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

Date Received: N/A
 Work Order No: 05-05-1381
 Preparation: CAC 66261.126
 Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-05-006-2,782	Solid	ICP 3300	05/26/05	050526-I-02	050526L02

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	10.0	10.7	107	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience
Environmental Quality Control - Laboratory Control Sample
Laboratories, Inc.



Kiff Analytical	Date Received:	N/A
2795 2nd Street, Suite 300	Work Order No:	05-05-1381
Davis, CA 95616-6593	Preparation:	DHS LUFT
	Method:	DHS LUFT

Project: 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-020-412	Solid	FLAA	05/26/05	NONE	050526L07

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Organic Lead	25.0	26.3	105	72-126	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 05-05-1381

<u>Qualifier</u>	<u>Definition</u>
*	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.



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. 1381 Page 1 of 1

Project Contact (Hardcopy or PDF to):
 Joel Kiff

Geotracker COELT EDD REPORT?
 X YES ___ NO

Chain-of-Custody Record and Analysis Request

Company/Address:
 Kiff Analytical, LLC

Sampling Company Log Code: KHMS

Analysis Request

Date Due:

Phone No.:

FAX No.:

Global ID: T0600156427

Project Number:
 SJ31-8LI-1

P.O. No.:
 43894

EDF Deliverable to (Email Address):
 inbox@kiffanalytical.com

Project Name:
 318 S. Livermore Avenue, Livermore

E-mail address:
 inbox@kiffanalytical.com

Project Address:

Sampling

Container

Preservative

Matrix

Sample Designation

Date Time

Glass Jar Poly Glass Sleeve Tedlar

H₂SO₄ HNO₃ ICE NONE Na₂S₂O₃ WATER SOIL AIR

Total Lead

May 24, 2005

For Lab Use Only

Composite E, F, G

5/18/05 12:00

1

X

X

X

X

Relinquished by: *[Signature]* Date: 05/18/05 Time: 19:00

Received by:

Remarks: *STLC on all TTLC Metals 10 times STLC Maximum; TTLC Lead => 13mg/kg requires Organic Lead analyese; if any TTLC Total Metal is > or = to 20 times TCLP Regulatory levels, TCLP is required. Note: This is a Shell Project. Rush OK by Steve Nowak

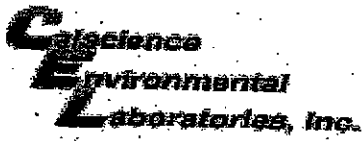
Relinquished by:

Received by:

Bill to:

Relinquished by: *[Signature]* Date: 5-20-05 Time: 8:30

Received by Laboratory: *Wobak et al*



WORK ORDER #:

05 - 05 - 1381

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF ANALYTICAL

DATE: 5-20-05

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):

- 4.0 °C Temperature blank.
°C IR thermometer.
Ambient temperature.

Initial: WVB

CUSTODY SEAL INTACT:

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

Initial: WVB

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sample container label(s), Sample container(s) intact, Correct containers for analyses, Proper preservation noted, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: WVB

COMMENTS:

Blank lines for handwritten comments.

720 Olive Drive, Suite D
Davis, CA 95616

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

INCIDENT NUMBER (SEE ONLY)

9 7 4 6 4 7 0 9

SAP or CRIME NUMBER (T SICRMT)

DATE: 5-18-05

PAGE: 1 of 1

SAMPLING COMPANY: Delta Environmental Consultants, Inc.		LOG CODE: KHMS	SITE ADDRESS (Street and City): 318 S. Livermore Avenue, Livermore		GLOBAL ID NO.: T0600156427
ADDRESS: 175 Bernal Rd, Suite 200, San Jose CA, 95119		EDF DELIVERABLE TO (Responsible Party or Designer): Heather Buckingham		PHONE NO.: (408) 224-4724	E-MAIL: hbuckingham@deltaenv.com
PROJECT CONTACT (Hardcopy or PDF Report to): Debbie Arnold		SAMPLER NAME(S) (Print): Jim Bobey Debbie Arnold		CONSULTANT PROJECT NO.: SJ31-8LI-1	
TELEPHONE: (408) 224-4724	FAX: (408) 225-8506	E-MAIL: darnold@deltaenv.com		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 LIST AGENCY: _____

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

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

Standard Shell disposal protocol

Results due Monday morning, per M. Brewer

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8018m)	BTEX	MTBE	1BA	6 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TCLP	LUFT6 <input type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TCLP	Test for Disposal	TEMPERATURE ON RECEIPT °C	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes		
		DATE	TIME																					
	Composite E, F, G	5/18	12pm	S	3	X		X									X					01	<p>Sample receipt -5°C MAS 051905 1638 IR-1 Contact present</p>	

Relinquished by: (Signature) <i>D. Arnold</i>	Received by: (Signature) _____	Date:	Time:
Relinquished by: (Signature) _____	Received by: (Signature) _____	Date:	Time:
Relinquished by: (Signature) _____	Received by: (Signature) <i>Michelle Spence Kiff Analytical</i>	Date: <i>051905</i>	Time: <i>1320</i>



Report Number : 44214

Date : 06/15/2005

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

Subject : 6 Samples
Project Name : 318 S. Livermore Avenue, Livermore
Project Number : SJ31-BLI-1
P.O. Number : SAP# 135303

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,

A handwritten signature in black ink, appearing to read "Jbel Kiff".

Jbel Kiff

**Calscience
Environmental
Laboratories, Inc.**



June 15, 2005

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

Subject: Calscience Work Order No.: 05-06-0560
Client Reference: 318 S. Livermore Avenue, Livermore

Dear Client:

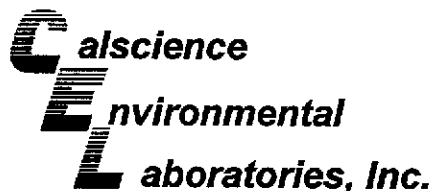
Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/9/2005 and analyzed in accordance with the attached chain-of-custody.

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



Analytical Report



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

Date Received: 06/09/05
Work Order No: 05-06-0560
Preparation: EPA 3050B
Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-6@5'	05-06-0560-1	06/07/05	Solid	06/09/05	06/10/05	050609L01

Parameter	Result	RL	DF	Qual	Units
Lead	5.21	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-1@2.5'	05-06-0560-2	06/07/05	Solid	06/09/05	06/10/05	050609L01

Parameter	Result	RL	DF	Qual	Units
Lead	12.3	0.5	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-2@3'	05-06-0560-3	06/07/05	Solid	06/09/05	06/10/05	050609L01

Parameter	Result	RL	DF	Qual	Units
Lead	4.62	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-3@2.5'	05-06-0560-4	06/07/05	Solid	06/09/05	06/10/05	050609L01

Parameter	Result	RL	DF	Qual	Units
Lead	4.97	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-4@3'	05-06-0560-5	06/07/05	Solid	06/09/05	06/10/05	050609L01

Parameter	Result	RL	DF	Qual	Units
Lead	1040	0.500	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
PH-5@2'	05-06-0560-6	06/07/05	Solid	06/09/05	06/10/05	050609L01

Parameter	Result	RL	DF	Qual	Units
Lead	5.09	0.50	1		mg/kg

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

Analytical Report



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

Date Received: 06/09/05
 Work Order No: 05-06-0560
 Preparation: EPA 3050B
 Method: EPA 6010B

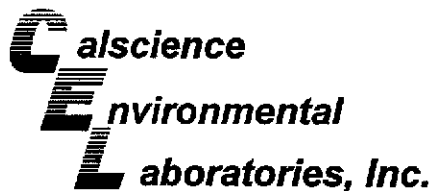
Project: 318 S. Livermore Avenue, Livermore

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-002-6,474	N/A	Solid	06/09/05	06/10/05	050609L01

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

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



Quality Control - Spike/Spike Duplicate



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

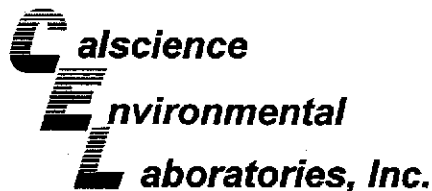
Date Received: 06/09/05
Work Order No: 05-06-0560
Preparation: EPA 3050B
Method: EPA 6010B

Project 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-06-0527-3	Solid	ICP 3300	06/09/05	06/10/05	050609S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	90	196	75-125	60	0-20	4,3

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
 Work Order No: 05-06-0560
 Preparation: EPA 3050B
 Method: EPA 6010B

Project: 318 S. Livermore Avenue, Livermore

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-6,474	Solid	ICP 3300	06/09/05	06/10/05	050609L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	105	107	80-120	1	0-20	

RPD - Relative Percent Difference, CL - Control Limit



Work Order Number: 05-06-0560

<u>Qualifier</u>	<u>Definition</u>
*	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.



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

COC#

0560

Page 1 of 1

Project Contact (Hardcopy or PDF to): **Troy Turpen** EDF Report? Yes No **Chain-of-Custody Record and Analysis Request**

Company/Address: **Kiff Analytical, LLC** Recommended but not mandatory to complete this section:
 Sampling Company Log Code:

Phone No.: FAX No.: Global ID:
 Project Number: **SJ31-BLI-1** P.O. No.: **44214** EDF Deliverable to (Email Address):

Project Name: **318 S. Livermore Avenue, Livermore** E-mail address: **inbox@kiffanalytical.com**

Sample Designation	Sampling		Container				Preservative					Matrix		Total Laed	Date due:	For Lab Use Only	
	Date	Time	Glass Jar	Poly	Amber	Sleeve	HCl	HNO3	ICE	NONE	Na2S2O3	WATER	SOIL				
PH-6@5'	06/07/05	10:05				1			X	X			X	X		X	X
PH-1@2.5'	06/07/05	11:11				1			X	X			X	X		X	X
PH-2@3'	06/07/05	11:18				1			X	X			X	X		X	X
PH-3@2.5'	06/07/05	11:53				1			X	X			X	X		X	X
PH-4@3'	06/07/05	12:05				1			X	X			X	X		X	X
PH-5@2'	06/07/05	12:16				1			X	X			X	X		X	X

Relinquished by: <i>[Signature]</i> Kiff Analytical	Date: 06/08/05	Time: 1900	Received by:	Remarks: This is a Shell Project.
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date: 6/9/05	Time: 0800	Received by Laboratory: <i>[Signature]</i> CCL	
Bill to: Accounts Payable				

WORK ORDER #: **05 - 06 - 0560**

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff

DATE: 6/9/05

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):

- 3.9 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: JF

CUSTODY SEAL INTACT:

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

Initial: JF

SAMPLE CONDITION:

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

Initial: JF

COMMENTS:

720 Olive Drive, Suite D
Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

Shell Project Manager to be invoiced:

Denis Brown

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY)

S&E CRMT NUMBER (S&E/CRMT)

1 3 5 3 0 3

DATE: 6/7/05

PAGE: 1 of 1

SAMPLING COMPANY: Delta Environmental Consultants, Inc.		LOG CODE: KHMS	SITE ADDRESS (Street and City): 318 S. Livermore Avenue, Livermore		GLOBAL ID NO.: T0600156427																																																																																																									
ADDRESS: 175 Bernal Rd, Suite 200, San Jose CA, 95119		EDF DELIVERABLE TO (Responsible Party or Designee): Heather Buckingham		PHONE NO.: (408) 224-4724	E-MAIL: hbuckingham@deltainv.com																																																																																																									
PROJECT CONTACT (Handcopy or PDF Report to): Debbie Arnold		SAMPLER NAME(S) (Print): Heather Buckingham		CONSULTANT PROJECT NO.: SJ31-8LI-1																																																																																																										
TELEPHONE: (408) 224-4724	FAX: (408) 225-9506	E-MAIL: darnold@deltainv.com		LAB USE ONLY																																																																																																										
TURNAROUND TIME (BUSINESS DAYS): <input type="checkbox"/> 10 DAYS <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS			REQUESTED ANALYSIS																																																																																																											
<input type="checkbox"/> LA - RWQCB REPORT FORMAT <input checked="" type="checkbox"/> UST AGENCY:			FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes																																																																																																											
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____			TEMPERATURE ON RECEIPT C°																																																																																																											
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED <input type="checkbox"/>			<table border="1"> <tr> <th>TPH - Purgeable</th> <th>TPH - Extractable (8016m)</th> <th>BTEX</th> <th>MTBE</th> <th>18A</th> <th>6 Oxygenates</th> <th>1,2 DCA and EDB</th> <th>Ethanol</th> <th>Methanol</th> <th>VOCs by 8260B</th> <th>Semi-Volatiles by 8270C</th> <th>Lead X Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP</th> <th>LUFT6 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP</th> <th>CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP</th> <th>Test for Disposal</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td> </tr> </table>			TPH - Purgeable	TPH - Extractable (8016m)	BTEX	MTBE	18A	6 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead X Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT6 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Test for Disposal												X															X															X															X															X															X			
TPH - Purgeable	TPH - Extractable (8016m)	BTEX	MTBE	18A	6 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead X Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT6 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Test for Disposal																																																																																																
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Sample Receipt
Temp °C 39 Therm. ID# 1R-3
Initial BAB
Date 060805 Time 1621
Coolant present: Yes / No

Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8016m)	BTEX	MTBE	18A	6 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead X Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT6 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Test for Disposal	TEMPERATURE ON RECEIPT C°	
	DATE	TIME																			
PH-6@5'	6/7/05	10:05	soil	1																	-01
PH-1@2.5'	6/7/05	11:11	soil	1																	-02
PH-2@3'	6/7/05	11:18	soil	1																	-03
PH-3@2.5'	6/7/05	11:53	soil	1																	-04
PH-4@3'	6/7/05	12:05	soil	1																	-05
PH-5@2'	6/7/05	12:16	soil	1																	-06

Relinquished by: (Signature) <i>Heather Buckingham (14:55)</i>	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) <i>Christine Burdy A Kiff Analytical</i>	Date: 6/8/05	Time: 1243

Attachment C

ZONE 7 DRILLING PERMIT



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

100 NORTH CANYONS PARKWAY LIVERMORE, CA 94551 PHONE (925) 454-5000 FAX(925) 454-5727

March 1, 2005

Ms. Vera Fischer
Delta Enviromental Consultants, Inc.
1175 Bernal Road, Suite 200
San Jose, CA 95119

Dear Ms. Fischer:

Enclosed is drilling permit 25027 for a contamination investigation at 318 South Livermore Avenue in Livermore for Shell Oil Products. Also enclosed are current drilling permit applications for your files.

Please note that permit conditions A-2 and G requires that a report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, permit number and any analysis of the soil and water samples. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 235 or Matt Katen at extension 234.

Sincerely,

Wyman Hong
Water Resources Specialist

Enc.



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 318 S. Livermore Ave.
Livermore, CA

PERMIT NUMBER 25027
WELL NUMBER _____
APN 097-0108-009-03

California Coordinates Source _____ Accuracy ± _____ ft.
CCN _____ N. CGE _____ ft.
APN 97-108-9-3

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name Shell Oil Products US
Address 20945 S. Wilmetton Ave. Phone 531-615-2306
City Carsen, CA Zip 90610

A.

GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name Delta Environmental Consultants, Inc.
Vera Fischer Fax 408-225-0506
Address 175 Bernick Rd., Suite 200 Phone 408-224-4729
City San Jose, CA Zip 95119

B.

WATER SUPPLY WELLS

1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:

Well Construction	..	Geotechnical Investigation	..
Well Destruction	..	Contamination Investigation	X
Cathodic Protection	..	Other <u>Soil Boring</u>	X

PROPOSED WELL USE:

Domestic	..	Irrigation	..
Municipal	..	Remediation	..
Industrial	..	Groundwater Monitoring	..
Dewatering	..	Other _____	..

DRILLING METHOD:

Mud Rotary	..	Air Rotary	..	Hollow Stem Auger	X
Cable Tool	..	Direct Push	..	Other _____	..

DRILLING COMPANY BC² Environmental
DRILLER'S LICENSE NO. 686235

WELL SPECIFICATIONS:

Drill Hole Diameter _____ in.	Maximum _____
Casing Diameter _____ in.	Depth _____ ft.
Surface Seal Depth _____ ft.	Number _____

SOIL BORINGS:

Number of Borings <u>3</u>	Maximum _____
Hole Diameter <u>8</u> in.	Depth <u>50</u> ft.

ESTIMATED STARTING DATE March 8, 2005
ESTIMATED COMPLETION DATE March 10, 2005

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Vera Fischer Date 2/23/05

Approved Wyman Hong Date 2/28/05

ATTACH SITE PLAN OR SKETCH



Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA
408.224.4724 800.477.7411
Fax 408.225.8506

June 1, 2005
Project No. SJ31-8LI-1

Mr. Wyman Hong
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, California 94551

**Re: Request to Extend Permit No. 25207
Former Shell Service Station
318 South Livermore Avenue, Livermore, California**

Dear Mr. Hong:

On behalf of Shell Oil Products US (Shell), Delta Environmental Consultants, Inc. (Delta) is requesting an extension of Permit No. 25207 which expired on May 29, 2005 for the above-referenced site. Permitted field activities include the advancement of three borings to a total depth of approximately fifty feet below ground surface using hollow stem augers. Delta has contracted BC2 Environmental Corp, Inc. to advance the three soil borings on June 2 and 3, 2005.

Should you have any questions, please do not hesitate to contact us at (408) 224-4724.

Sincerely,
Delta Environmental Consultants, Inc.

A handwritten signature in cursive script that reads "Heather Buckingham". The signature is written in black ink and is positioned above the printed name and title.

Heather Buckingham
Senior Staff Geologist

Attachment D

BORING LOGS

Delta

Environmental Consultants, Inc.

Project No:	SJ31-8LI-1	Client:	Shell Oil Products US	Boring No:	B-1
Logged By:	Heather Buckingham	Location:	318 S. Livermore Ave., Livermore	Page 1 of 2	
Driller:	BC2	Date Drilled:	6/2/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8-inch	Please see site map	
Sampling Method:	CA mod. Split shoe	Hole Depth:	37 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/ft)	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout		dry	0	↑ air knifed & hand augered ↓	1		At	Asphalt ~4"
					2		SW	Well Graded SAND with Gravel: dark brown; 40% gravels 1/4" in length; trace gravels up to 1.5 inch in length
					3			
					4			
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			
		dry	0	17 22 24	10 11		GW	GRAVEL with Silt and Sand: dark tan; 10-15% silt; 20-25% well graded sand; 50% gravel up to 0.5 inch in length; dense
		dry	0	12 14 18	15 16		CL	Lean CLAY: medium brown; ~10% fine grained sand; low to moderate plasticity; very stiff
		dry	0	16 16 21	20 21			(medium brown with orange mottling)

Delta

Environmental Consultants, Inc.

Project No:	SJ31-8LI-1	Client:	Shell Oil Products US	Boring No:	B-1
Logged By:	Heather Buckingham	Location:	318 S. Livermore Ave., Livermore	Page 2 of 2	
Driller:	BC2	Date Drilled:	6/2/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8-inch	Please see site map	
Sampling Method:	CA mod. Split shoe	Hole Depth:	37 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
		dry	1.4	12 18 18	23		CL	Lean CLAY (Continued)
					24			
					25			
					26			
					27			
					28			
					29			
					30			
					31			
					32			
		33						
		34						
		35						
		36						
		37		GW	Well Graded GRAVEL with Sand and Silt: brownish gray; 10-15% fines; 30-40% coarse grained sand; 40-50% gravels up to 1 cm in length; hard			
		38						
		39						
		40		CL	Lean CLAY: as above			
		41						
		42						
		43						
		44			Boring terminated at 37 feet bg			
					Hydropunch sampler pushed to 40.5 feet bg			

Delta

Environmental Consultants, Inc.

Project No: SJ31-8LI-1 Client: Shell Oil Products US
 Logged By: Heather Buckingham Location: 318 S. Livermore Ave., Livermore
 Driller: BC2 Date Drilled: 6/2/2005
 Drilling Method: HSA Hole Diameter: 8-inch
 Sampling Method: CA mod. Split shoe Hole Depth: 31 ft
 Casing Type: Well Diameter:
 Slot Size: Well Depth:
 Gravel Pack: Casing Stickup:

Boring No: B-2
 Page 1 of 2

Location Map

Please see site map

Elevation Northing Easting

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill Casing Grout					1		GW	Well Graded GRAVEL with Silt and Sand: dark brown; 10-15% fines; 20-30% coarse grained sands; 65-70% rounded gravels ranging from 1 cm to 2 inches in diameter	
					2				
					3				
					4				
			dry	0		5			(medium brown)
						6			
						7		GW	Well Graded GRAVEL with Sand: light brown; 20-30% coarse grained sand; 70-80% gravels ranging from 1/4" to 2 inch in length;
						8			
						9			
			dry moist	0	31	9			
					40	10		GW	Well Graded GRAVEL with Silt and Sand: medium brown; 10-15% fines; ~20% well graded sands; ~60-70% gravels 1/4" in length; trace gravels up to 1/2" length; medium dense
			damp wet	0.5	17	10			
					28	11			
			damp	0	32	11			
					12	12			
			damp	0	18	12			
					21	13			
			damp	0	13	13			
					16	14			
			damp	0	20	14		CL	Lean CLAY: medium brown; ~10% fine grained sand; low to moderate plasticity; stiff
					21	15			
			damp	0.2	9	15			
				11	16				
		damp	0	13	16				
				12	17				
		damp	0	12	17				
				15	18			(medium brown with dark brown and orange mottling)	
		damp	0	11	18				
				13	19				
		damp	0.1	16	19				
				18	20			(trace fine gravels)	
					21				
					22				

air knifed & hand augered

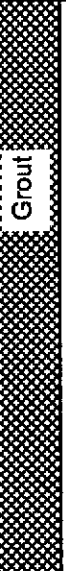


Delta

Environmental Consultants, Inc.

Project No:	SJ31-8LI-1	Client:	Shell Oil Products US	Boring No:	B-2
Logged By:	Heather Buckingham	Location:	318 S. Livemore Ave., Livemore	Page 2 of 2	
Driller:	BC2	Date Drilled:	6/2/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8-inch	Please see site map	
Sampling Method:	CA mod. Split shoe	Hole Depth:	31 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION		
		wet	0.3	6 10 11	23		CL	Lean CLAY (Continued)		
					24					
					25					
					26					
					27					
					28					
					29					
					30					
					31					
					32					
					33					
				wet	0	19 30 36	30		GM	Silty GRAVEL with Sand: medium brown/tan; medium dense; 20-30% fines; 10-20% coarse grained sand; 40-50% gravels up to 1" in length
							31			
							32			
							33			
							34			
							35			
							36			
							37			
							38			
							39			
							40			
							41			
42										
43										
44										

Boring terminated at 31 feet bg

Delta

Environmental Consultants, Inc.

Project No:	SJ31-8LI-1	Client:	Shell Oil Products US	Boring No:	B-3
Logged By:	Heather Buckingham	Location:	318 S. Livermore Ave., Livermore	Page 1 of 3	
Driller:	BC2	Date Drilled:	6/3/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8-inch	Please see site map	
Sampling Method:	CA mod. Split shoe	Hole Depth:	47 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill Casing							AF	Asphalt 4"	
Grout		dry	0	↑ air knifed & hand augered ↓	1		SW	Well Graded SAND with Gravel: medium brown; ~60% well graded sand; ~40% gravels (1/4" in length); rare gravels up to 1.5" in length	
					2				
					3				
					4				
					5				
					6				
					7				
					8				
					9				
		dry	0.3	17 25 32		10		GW	Well Graded GRAVEL with Silt and Sand: medium brown; 10-15% fines; ~20% well graded sands; ~60-70% gravels 1/4" in length; trace gravels up to 1/2" in length; medium dense
						11			
						12			
						13			
		dry	0.4	19 20 25		14		CL	Lean CLAY with Sand: medium brown; 10-20% fine grained sand; low to moderate plasticity; very stiff
						15			
						16			
						17			
		dry	0.2	10 15 16		18		CL	Sandy Lean CLAY: light brown; 30-40% fine grained sand; trace coarse grained sand; slight plasticity; medium dense
						19			
						20			
						21			
						22			

Delta

Environmental Consultants, Inc.

Project No:	SJ31-8LI-1	Client:	Shell Oil Products US	Boring No:	B-3
Logged By:	Heather Buckingham	Location:	318 S. Livermore Ave., Livermore	Page 2 of 3	
Driller:	BC2	Date Drilled:	6/3/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8-inch	Please see site map	
Sampling Method:	CA mod. Split shoe	Hole Depth:	47 ft		
Casing Type:		Well Diameter:			
Slot Size:		Well Depth:			
Gravel Pack:		Casing Stickup:			

Elevation	Northing	Easting
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Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing								
Grout	▼	wet	0.3	12 14 17	23 24 25 26 27 28 29		CL	Sandy Lean CLAY (Continued)
		wet	0.9	16 16 31	30 31 32 33 34		GM	Silty GRAVEL with Sand: brownish gray; 20-30% fine to medium grained sand; 60-70% gravels up to 1.5" in length; 10-20% silt; medium dense
		wet	0.6	12 14 18	35 36 37 38 39		CL	Lean CLAY with Sand: medium brown; 10-20% fine grained sand; 65-75% fines; low plasticity; stiff
		moist	0.5	10 12 17	40 41 42 43 44			(grades to coarser grained sand, and traces of 1/4" gravel)

Delta

Environmental Consultants, Inc.

Project No: SJ31-8LI-1	Client: Shell Oil Products US	Boring No: B-3
Logged By: Heather Buckingham	Location: 318 S. Livemore Ave., Livemore	Page 3 of 3
Driller: BC2	Date Drilled: 6/3/2005	Location Map Please see site map
Drilling Method: HSA	Hole Diameter: 8-inch	
Sampling Method: CA mod. Split shoe	Hole Depth: 47 ft	
Casing Type:	Well Diameter:	
Slot Size:	Well Depth:	
Gravel Pack:	Casing Stickup:	

Elevation	Northing	Easting
-----------	----------	---------

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout		moist	0.8	9 11 15	45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66		CL	Sandy CLAY: medium brown; 10-20% gray fine grained sand (pods); low to moderate plasticity; stiff
								Boring terminated at 47 feet bg
								Hydropunch sampler pushed to 51 feet bg

Attachment E

LABORATORY CERTIFIED ANALYTICAL RESULTS

AND

**CHAIN-OF-CUSTODY DOCUMENTATION FOR SOIL AND GROUNDWATER SAMPLING
(BORINGS B-1 THROUGH B-3)**

Delta Env. Consultants San Jose

June 24, 2005

175 Bernal Road, Suite 200
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: Consultant Project #SJ31-8LI-1

Project: 97464709

Site: 318 S. Livermore Avenue, Livermore

Dear Ms. Arnold:

Attached is our report for your samples received on 06/06/2005 12:30

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 07/21/2005 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

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

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) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B-2@5'	06/02/2005 09:31	Soil	1
B-2@10'	06/02/2005 11:05	Soil	2
B-2@15'	06/02/2005 11:20	Soil	3
B-2@20'	06/02/2005 11:28	Soil	4
B-2@25'	06/02/2005 11:34	Soil	5
B-2@30'	06/02/2005 12:01	Soil	6
B-1@5'	06/02/2005 11:14	Soil	8
B-1@10'	06/02/2005 13:11	Soil	9
B-1@15'	06/02/2005 13:20	Soil	10
B-1@20'	06/02/2005 13:23	Soil	11
B-1@25'	06/02/2005 13:56	Soil	12
B-1@30'	06/02/2005 15:04	Soil	13
B-1@35'	06/02/2005 15:15	Soil	14
B-3@5'	06/02/2005 12:11	Soil	17
B-3@10'	06/03/2005 10:50	Soil	18
B-3@15'	06/03/2005 10:59	Soil	19
B-3@20'	06/03/2005 11:11	Soil	20
B-3@25'	06/03/2005 11:17	Soil	21
B-3@30'	06/03/2005 12:24	Soil	22
B-3@35'	06/03/2005 12:32	Soil	23
B-3@40'	06/03/2005 12:39	Soil	24
B-3@45'	06/03/2005 12:46	Soil	25

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) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-2@5	Lab ID: 2005-06-0162 - 1
Sampled: 06/02/2005 09:31	Extracted: 6/16/2005 15:21 6/19/2005 21:28
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 15:21	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 15:21	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 15:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 15:21	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 15:21	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/19/2005 21:28	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 15:21	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 15:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 15:21	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 15:21	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 15:21	
Surrogate(s)						
1,2-Dichloroethane-d4	105.7	76-124	%	1.00	06/16/2005 15:21	
1,2-Dichloroethane-d4	117.1	76-124	%	1.00	06/19/2005 21:28	
Toluene-d8	99.9	75-116	%	1.00	06/16/2005 15:21	
Toluene-d8	101.9	75-116	%	1.00	06/19/2005 21:28	

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) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-2@10	Lab ID: 2005-06-0162 - 2
Sampled: 06/02/2005 11:05	Extracted: 6/16/2005 15:46 6/19/2005 21:54
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 15:46	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 15:46	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 15:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 15:46	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 15:46	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/19/2005 21:54	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 15:46	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 15:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 15:46	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 15:46	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 15:46	
Surrogate(s)						
1,2-Dichloroethane-d4	107.7	76-124	%	1.00	06/16/2005 15:46	
1,2-Dichloroethane-d4	119.4	76-124	%	1.00	06/19/2005 21:54	
Toluene-d8	94.3	75-116	%	1.00	06/16/2005 15:46	
Toluene-d8	98.1	75-116	%	1.00	06/19/2005 21:54	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-2@15	Lab ID: 2005-06-0162 - 3
Sampled: 06/02/2005 11:20	Extracted: 6/16/2005 16:11 6/19/2005 22:47
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 16:11	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 16:11	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 16:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 16:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 16:11	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/19/2005 22:47	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 16:11	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 16:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 16:11	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 16:11	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 16:11	
Surrogate(s)						
1,2-Dichloroethane-d4	109.7	76-124	%	1.00	06/16/2005 16:11	
1,2-Dichloroethane-d4	108.8	76-124	%	1.00	06/19/2005 22:47	
Toluene-d8	100.2	75-116	%	1.00	06/16/2005 16:11	
Toluene-d8	101.2	75-116	%	1.00	06/19/2005 22:47	

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

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Project: Consultant Project #SJ31-8LI-1
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Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-2@20	Lab ID: 2005-06-0162 - 4
Sampled: 06/02/2005 11:28	Extracted: 6/16/2005 16:36 6/19/2005 23:13
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 16:36	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 16:36	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 16:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 16:36	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 16:36	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/19/2005 23:13	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 16:36	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 16:36	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 16:36	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 16:36	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 16:36	
Surrogate(s)						
1,2-Dichloroethane-d4	104.0	76-124	%	1.00	06/16/2005 16:36	
1,2-Dichloroethane-d4	108.4	76-124	%	1.00	06/19/2005 23:13	
Toluene-d8	100.0	75-116	%	1.00	06/16/2005 16:36	
Toluene-d8	101.5	75-116	%	1.00	06/19/2005 23:13	

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

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97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-2@25	Lab ID: 2005-06-0162 - 5
Sampled: 06/02/2005 11:34	Extracted: 6/16/2005 17:01 6/19/2005 23:39
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 17:01	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:01	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:01	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 17:01	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/19/2005 23:39	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:01	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 17:01	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:01	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:01	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 17:01	
Surrogate(s)						
1,2-Dichloroethane-d4	107.3	76-124	%	1.00	06/19/2005 23:39	
1,2-Dichloroethane-d4	102.4	76-124	%	1.00	06/16/2005 17:01	
Toluene-d8	101.5	75-116	%	1.00	06/19/2005 23:39	
Toluene-d8	102.1	75-116	%	1.00	06/16/2005 17:01	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-2@30	Lab ID:	2005-06-0162 - 6
Sampled:	06/02/2005 12:01	Extracted:	6/16/2005 17:25 6/20/2005 00:05
Matrix:	Soil	QC Batch#:	2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 17:25	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:25	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:25	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:25	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 17:25	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/20/2005 00:05	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:25	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 17:25	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:25	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:25	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 17:25	
Surrogate(s)						
1,2-Dichloroethane-d4	96.2	76-124	%	1.00	06/16/2005 17:25	
1,2-Dichloroethane-d4	109.0	76-124	%	1.00	06/20/2005 00:05	
Toluene-d8	99.1	75-116	%	1.00	06/20/2005 00:05	
Toluene-d8	104.8	75-116	%	1.00	06/16/2005 17:25	

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

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Project: Consultant Project #SJ31-8LI-1
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Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@5	Lab ID: 2005-06-0162 - 8
Sampled: 06/02/2005 11:14	Extracted: 6/16/2005 17:50 6/20/2005 00:31
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 17:50	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:50	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 17:50	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 17:50	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/20/2005 00:31	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:50	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 17:50	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:50	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 17:50	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 17:50	
Surrogate(s)						
1,2-Dichloroethane-d4	113.7	76-124	%	1.00	06/20/2005 00:31	
1,2-Dichloroethane-d4	95.6	76-124	%	1.00	06/16/2005 17:50	
Toluene-d8	100.8	75-116	%	1.00	06/20/2005 00:31	
Toluene-d8	105.1	75-116	%	1.00	06/16/2005 17:50	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@10	Lab ID: 2005-06-0162 - 9
Sampled: 06/02/2005 13:11	Extracted: 6/16/2005 18:15 6/20/2005 00:57
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 18:15	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 18:15	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 18:15	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 18:15	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 18:15	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/20/2005 00:57	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 18:15	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 18:15	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 18:15	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 18:15	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 18:15	
Surrogate(s)						
1,2-Dichloroethane-d4	110.6	76-124	%	1.00	06/20/2005 00:57	
1,2-Dichloroethane-d4	103.9	76-124	%	1.00	06/16/2005 18:15	
Toluene-d8	96.6	75-116	%	1.00	06/20/2005 00:57	
Toluene-d8	99.3	75-116	%	1.00	06/16/2005 18:15	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@15	Lab ID: 2005-06-0162 - 10
Sampled: 06/02/2005 13:20	Extracted: 6/16/2005 18:40 6/20/2005 01:23
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 18:40	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 18:40	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 18:40	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 18:40	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 18:40	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/20/2005 01:23	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 18:40	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 18:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 18:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 18:40	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 18:40	
Surrogate(s)						
1,2-Dichloroethane-d4	104.6	76-124	%	1.00	06/16/2005 18:40	
1,2-Dichloroethane-d4	114.2	76-124	%	1.00	06/20/2005 01:23	
Toluene-d8	94.6	75-116	%	1.00	06/16/2005 18:40	
Toluene-d8	100.7	75-116	%	1.00	06/20/2005 01:23	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@20	Lab ID: 2005-06-0162 - 11
Sampled: 06/02/2005 13:23	Extracted: 6/16/2005 19:05 6/20/2005 01:49
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/19-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 19:05	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:05	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:05	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 19:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/20/2005 01:49	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:05	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 19:05	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:05	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:05	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 19:05	
Surrogate(s)						
1,2-Dichloroethane-d4	106.6	76-124	%	1.00	06/20/2005 01:49	
1,2-Dichloroethane-d4	110.4	76-124	%	1.00	06/16/2005 19:05	
Toluene-d8	99.7	75-116	%	1.00	06/16/2005 19:05	
Toluene-d8	102.5	75-116	%	1.00	06/20/2005 01:49	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@25	Lab ID: 2005-06-0162 - 12
Sampled: 06/02/2005 13:56	Extracted: 6/16/2005 19:30 6/21/2005 15:08
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 19:30	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:30	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:30	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:30	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 19:30	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/21/2005 15:08	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:30	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 19:30	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:30	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:30	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 19:30	
Surrogate(s)						
1,2-Dichloroethane-d4	124.9	76-124	%	1.00	06/21/2005 15:08	S7
1,2-Dichloroethane-d4	101.5	76-124	%	1.00	06/16/2005 19:30	
Toluene-d8	108.1	75-116	%	1.00	06/21/2005 15:08	
Toluene-d8	106.1	75-116	%	1.00	06/16/2005 19:30	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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San Jose, CA 95119

Phone: (408) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-1@30	Lab ID:	2005-06-0162 - 13
Sampled:	06/02/2005 15:04	Extracted:	6/16/2005 19:55 6/21/2005 14:13
Matrix:	Soil	QC Batch#:	2005/06/16-1A.66 2005/06/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 19:55	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:55	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:55	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 19:55	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 19:55	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/21/2005 14:13	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:55	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 19:55	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:55	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 19:55	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 19:55	
Surrogate(s)						
1,2-Dichloroethane-d4	103.2	76-124	%	1.00	06/21/2005 14:13	
1,2-Dichloroethane-d4	108.5	76-124	%	1.00	06/16/2005 19:55	
Toluene-d8	101.7	75-116	%	1.00	06/21/2005 14:13	
Toluene-d8	92.6	75-116	%	1.00	06/16/2005 19:55	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@35	Lab ID: 2005-06-0162 - 14
Sampled: 06/02/2005 15:15	Extracted: 6/16/2005 20:20 6/21/2005 14:32
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 20:20	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 20:20	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 20:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 20:20	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 20:20	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/21/2005 14:32	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 20:20	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 20:20	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 20:20	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 20:20	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 20:20	
Surrogate(s)						
1,2-Dichloroethane-d4	100.7	76-124	%	1.00	06/16/2005 20:20	
1,2-Dichloroethane-d4	113.4	76-124	%	1.00	06/21/2005 14:32	
Toluene-d8	97.1	75-116	%	1.00	06/16/2005 20:20	
Toluene-d8	109.2	75-116	%	1.00	06/21/2005 14:32	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@5	Lab ID: 2005-06-0162 - 17
Sampled: 06/02/2005 12:11	Extracted: 6/16/2005 20:45 6/21/2005 14:50
Matrix: Soil	QC Batch#: 2005/06/16-1A.66 2005/06/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/16/2005 20:45	
Benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 20:45	
Toluene	ND	0.0050	mg/Kg	1.00	06/16/2005 20:45	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/16/2005 20:45	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/16/2005 20:45	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/21/2005 14:50	H2
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 20:45	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/16/2005 20:45	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/16/2005 20:45	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/16/2005 20:45	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/16/2005 20:45	
Surrogate(s)						
1,2-Dichloroethane-d4	108.2	76-124	%	1.00	06/16/2005 20:45	
1,2-Dichloroethane-d4	103.5	76-124	%	1.00	06/21/2005 14:50	
Toluene-d8	101.3	75-116	%	1.00	06/16/2005 20:45	
Toluene-d8	102.2	75-116	%	1.00	06/21/2005 14:50	

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

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Project: Consultant Project #SJ31-8LI-1
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Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@10	Lab ID: 2005-06-0162 - 18
Sampled: 06/03/2005 10:50	Extracted: 6/17/2005 09:04
Matrix: Soil	QC Batch#: 2005/06/17-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/17/2005 09:04	
Benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:04	
Toluene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:04	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:04	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/17/2005 09:04	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/17/2005 09:04	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:04	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/17/2005 09:04	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:04	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:04	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/17/2005 09:04	
Surrogate(s)						
1,2-Dichloroethane-d4	110.9	76-124	%	1.00	06/17/2005 09:04	
Toluene-d8	107.5	75-116	%	1.00	06/17/2005 09:04	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@15	Lab ID: 2005-06-0162 - 19
Sampled: 06/03/2005 10:59	Extracted: 6/17/2005 09:22
Matrix: Soil	QC Batch#: 2005/06/17-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/17/2005 09:22	
Benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:22	
Toluene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:22	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:22	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/17/2005 09:22	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/17/2005 09:22	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:22	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/17/2005 09:22	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:22	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:22	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/17/2005 09:22	
Surrogate(s)						
1,2-Dichloroethane-d4	106.0	76-124	%	1.00	06/17/2005 09:22	
Toluene-d8	103.5	75-116	%	1.00	06/17/2005 09:22	

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

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Project: Consultant Project #SJ31-8LI-1
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Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@20	Lab ID: 2005-06-0162 - 20
Sampled: 06/03/2005 11:11	Extracted: 6/17/2005 09:40
Matrix: Soil	QC Batch#: 2005/06/17-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/17/2005 09:40	
Benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:40	
Toluene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:40	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:40	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/17/2005 09:40	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/17/2005 09:40	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:40	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/17/2005 09:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:40	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/17/2005 09:40	
Surrogate(s)						
1,2-Dichloroethane-d4	110.0	76-124	%	1.00	06/17/2005 09:40	
Toluene-d8	103.9	75-116	%	1.00	06/17/2005 09:40	

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

Delta Env. Consultants San Jose

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@25	Lab ID: 2005-06-0162 - 21
Sampled: 06/03/2005 11:17	Extracted: 6/17/2005 09:58
Matrix: Soil	QC Batch#: 2005/06/17-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/17/2005 09:58	
Benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:58	
Toluene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:58	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 09:58	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/17/2005 09:58	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/17/2005 09:58	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:58	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/17/2005 09:58	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:58	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/17/2005 09:58	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/17/2005 09:58	
Surrogate(s)						
1,2-Dichloroethane-d4	108.9	76-124	%	1.00	06/17/2005 09:58	
Toluene-d8	105.8	75-116	%	1.00	06/17/2005 09:58	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@30	Lab ID: 2005-06-0162 - 22
Sampled: 06/03/2005 12:24	Extracted: 6/17/2005 11:11
Matrix: Soil	QC Batch#: 2005/06/17-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/17/2005 11:11	
Benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 11:11	
Toluene	ND	0.0050	mg/Kg	1.00	06/17/2005 11:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 11:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/17/2005 11:11	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/17/2005 11:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 11:11	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/17/2005 11:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 11:11	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/17/2005 11:11	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/17/2005 11:11	
Surrogate(s)						
1,2-Dichloroethane-d4	109.5	76-124	%	1.00	06/17/2005 11:11	
Toluene-d8	106.2	75-116	%	1.00	06/17/2005 11:11	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@35	Lab ID: 2005-06-0162 - 23
Sampled: 06/03/2005 12:32	Extracted: 6/17/2005 13:56
Matrix: Soil	QC Batch#: 2005/06/17-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/17/2005 13:56	
Benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 13:56	
Toluene	ND	0.0050	mg/Kg	1.00	06/17/2005 13:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 13:56	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/17/2005 13:56	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/17/2005 13:56	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 13:56	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/17/2005 13:56	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 13:56	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/17/2005 13:56	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/17/2005 13:56	
Surrogate(s)						
1,2-Dichloroethane-d4	102.2	76-124	%	1.00	06/17/2005 13:56	
Toluene-d8	101.3	75-116	%	1.00	06/17/2005 13:56	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@40	Lab ID: 2005-06-0162 - 24
Sampled: 06/03/2005 12:39	Extracted: 6/17/2005 11:48
Matrix: Soil	QC Batch#: 2005/06/17-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/17/2005 11:48	
Benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 11:48	
Toluene	ND	0.0050	mg/Kg	1.00	06/17/2005 11:48	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 11:48	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/17/2005 11:48	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/17/2005 11:48	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 11:48	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/17/2005 11:48	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 11:48	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/17/2005 11:48	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/17/2005 11:48	
Surrogate(s)						
1,2-Dichloroethane-d4	108.6	76-124	%	1.00	06/17/2005 11:48	
Toluene-d8	106.6	75-116	%	1.00	06/17/2005 11:48	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@45	Lab ID: 2005-06-0162 - 25
Sampled: 06/03/2005 12:46	Extracted: 6/17/2005 12:06
Matrix: Soil	QC Batch#: 2005/06/17-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	06/17/2005 12:06	
Benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 12:06	
Toluene	ND	0.0050	mg/Kg	1.00	06/17/2005 12:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	06/17/2005 12:06	
Total xylenes	ND	0.0050	mg/Kg	1.00	06/17/2005 12:06	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	06/17/2005 12:06	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 12:06	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	06/17/2005 12:06	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	06/17/2005 12:06	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	06/17/2005 12:06	
1,2-DCA	ND	0.0050	mg/Kg	1.00	06/17/2005 12:06	
Surrogate(s)						
1,2-Dichloroethane-d4	113.3	76-124	%	1.00	06/17/2005 12:06	
Toluene-d8	105.7	75-116	%	1.00	06/17/2005 12:06	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Soil		QC Batch # 2005/06/16-1A.66
MB: 2005/06/16-1A.66-030			Date Extracted: 06/16/2005 13:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	06/16/2005 13:30	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	06/16/2005 13:30	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	06/16/2005 13:30	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	06/16/2005 13:30	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	06/16/2005 13:30	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	06/16/2005 13:30	
1,2-DCA	ND	0.0050	mg/Kg	06/16/2005 13:30	
Benzene	ND	0.0050	mg/Kg	06/16/2005 13:30	
Toluene	ND	0.0050	mg/Kg	06/16/2005 13:30	
Ethyl benzene	ND	0.0050	mg/Kg	06/16/2005 13:30	
Total xylenes	ND	0.0050	mg/Kg	06/16/2005 13:30	
Surrogates(s)					
1,2-Dichloroethane-d4	103.6	76-124	%	06/16/2005 13:30	
Toluene-d8	99.0	75-116	%	06/16/2005 13:30	

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) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/06/17-1A.69-058

Soil

Test(s): 8260B

QC Batch # 2005/06/17-1A.69

Date Extracted: 06/17/2005 07:58

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	06/17/2005 07:58	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	06/17/2005 07:58	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	06/17/2005 07:58	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	06/17/2005 07:58	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	06/17/2005 07:58	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	06/17/2005 07:58	
1,2-DCA	ND	0.0050	mg/Kg	06/17/2005 07:58	
Benzene	ND	0.0050	mg/Kg	06/17/2005 07:58	
Toluene	ND	0.0050	mg/Kg	06/17/2005 07:58	
Ethyl benzene	ND	0.0050	mg/Kg	06/17/2005 07:58	
Total xylenes	ND	0.0050	mg/Kg	06/17/2005 07:58	
Surrogates(s)					
1,2-Dichloroethane-d4	111.8	76-124	%	06/17/2005 07:58	
Toluene-d8	105.4	75-116	%	06/17/2005 07:58	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Soil		QC Batch # 2005/06/19-1A.62
MB: 2005/06/19-1A.62-039			Date Extracted: 06/19/2005 16:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	06/19/2005 16:39	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	06/19/2005 16:39	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	06/19/2005 16:39	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	06/19/2005 16:39	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	06/19/2005 16:39	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	06/19/2005 16:39	
1,2-DCA	ND	0.0050	mg/Kg	06/19/2005 16:39	
Benzene	ND	0.0050	mg/Kg	06/19/2005 16:39	
Toluene	ND	0.0050	mg/Kg	06/19/2005 16:39	
Ethyl benzene	ND	0.0050	mg/Kg	06/19/2005 16:39	
Total xylenes	ND	0.0050	mg/Kg	06/19/2005 16:39	
Surrogates(s)					
1,2-Dichloroethane-d4	109.8	76-124	%	06/19/2005 16:39	
Toluene-d8	105.2	75-116	%	06/19/2005 16:39	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Soil		QC Batch # 2005/06/21-1A.69
MB: 2005/06/21-1A.69-021			Date Extracted: 06/21/2005 11:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	06/21/2005 11:21	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	06/21/2005 11:21	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	06/21/2005 11:21	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	06/21/2005 11:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	06/21/2005 11:21	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	06/21/2005 11:21	
1,2-DCA	ND	0.0050	mg/Kg	06/21/2005 11:21	
Benzene	ND	0.0050	mg/Kg	06/21/2005 11:21	
Toluene	ND	0.0050	mg/Kg	06/21/2005 11:21	
Ethyl benzene	ND	0.0050	mg/Kg	06/21/2005 11:21	
Total xylenes	ND	0.0050	mg/Kg	06/21/2005 11:21	
Surrogates(s)					
1,2-Dichloroethane-d4	96.6	76-124	%	06/21/2005 11:21	
Toluene-d8	103.8	75-116	%	06/21/2005 11:21	

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil		QC Batch # 2005/06/16-1A.66				
LCS		2005/06/16-1A.66-005		Extracted: 06/16/2005		Analyzed: 06/16/2005 13:05			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0456		0.05	91.2			65-165	20		
Benzene	0.0478		0.05	95.6			69-129	20		
Toluene	0.0576		0.05	115.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	498		500	99.6			76-124			
Toluene-d8	536		500	107.2			75-116			

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil		QC Batch # 2005/06/17-1A.69				
LCS	2005/06/17-1A.69-039			Extracted: 06/17/2005		Analyzed: 06/17/2005 07:39			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0345		0.05	69.0			65-165	20		
Benzene	0.0366		0.05	73.2			69-129	20		
Toluene	0.0360		0.05	72.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	540		500	108.0			76-124			
Toluene-d8	525		500	105.0			75-116			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/23/2005 14:01

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
Laboratory Control Spike		Soil	QC Batch # 2005/06/19-1A.62
LCS	2005/06/19-1A.62-012	Extracted: 06/19/2005	Analyzed: 06/19/2005 16:12
LCSD			

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0454		0.05	90.8			65-165	20		
Benzene	0.0502		0.05	100.4			69-129	20		
Toluene	0.0514		0.05	102.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	487		500	97.4			76-124			
Toluene-d8	515		500	103.0			75-116			

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil		QC Batch # 2005/06/21-1A.69				
LCS	2005/06/21-1A.69-002		Extracted: 06/21/2005		Analyzed: 06/21/2005 11:02				
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0551		0.049212	112.0			65-165	20		
Benzene	0.0489		0.049212	99.4			69-129	20		
Toluene	0.0497		0.049212	101.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	472		500	94.4			76-124			
Toluene-d8	492		500	98.4			75-116			

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
Matrix Spike (MS / MSD)	Soil	QC Batch # 2005/06/16-1A.66	
MS/MSD		Lab ID:	2005-06-0384 - 001
MS: 2005/06/16-1A.66-031	Extracted: 06/16/2005	Analyzed:	06/16/2005 14:31
		Dilution:	1.00
MSD: 2005/06/16-1A.66-056	Extracted: 06/16/2005	Analyzed:	06/16/2005 14:56
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk. Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0454	0.0574	ND	0.049603	91.5	115.7	23.4	65-165	20		R1
Benzene	0.0502	0.0491	ND	0.049603	101.2	99.0	2.2	69-129	20		
Toluene	0.0535	0.0548	ND	0.049603	107.9	110.5	2.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	505	493		500	101.0	98.6		76-124			
Toluene-d8	482	512		500	96.4	102.4		75-116			

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Soil	QC Batch # 2005/06/17-1A.69
MS/MSD			Lab ID: 2005-06-0224 - 002
MS:	2005/06/17-1A.69-027	Extracted: 06/17/2005	Analyzed: 06/17/2005 15:27
			Dilution: 1.00
MSD:	2005/06/17-1A.69-045	Extracted: 06/17/2005	Analyzed: 06/17/2005 15:45
			Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0566	0.0547	ND	0.049407	114.6	111.0	3.2	65-165	20		
Benzene	0.0527	0.0519	ND	0.049407	106.7	105.3	1.3	69-129	20		
Toluene	0.0531	0.0533	ND	0.049407	107.5	108.1	0.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	566	550		500	113.1	110.0		76-124			
Toluene-d8	540	527		500	108.0	105.4		75-116			

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

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Project: Consultant Project #SJ31-8LI-1
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Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Soil	QC Batch # 2005/06/19-1A.62	
MS/MSD			Lab ID: 2005-06-0392 - 019
MS: 2005/06/19-1A.62-031	Extracted: 06/19/2005	Analyzed:	06/19/2005 17:31
		Dilution:	1.00
MSD: 2005/06/19-1A.62-058	Extracted: 06/19/2005	Analyzed:	06/19/2005 17:58
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.201	0.260	ND	0.25	80.4	104.0	25.6	65-165	20		R1
Benzene	0.200	0.249	ND	0.25	80.0	99.6	21.8	69-129	20		R1
Toluene	0.203	0.264	ND	0.25	81.2	105.6	26.1	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	524	513		500	104.8	102.6		76-124			
Toluene-d8	506	520		500	101.2	104.0		75-116			

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

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97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Soil	QC Batch # 2005/06/21-1A.69	
MS/MSD	Lab ID:		2005-06-0291 - 001
MS: 2005/06/21-1A.69-001	Extracted: 06/21/2005	Analyzed:	06/21/2005 13:01
		Dilution:	1.00
MSD: 2005/06/21-1A.69-019	Extracted: 06/21/2005	Analyzed:	06/21/2005 13:19
		Dilution:	1.00
Sample / Analysis Flag(s): MS: N1MSD: N1 (See Legend and Note Section)			

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0825	0.0802	ND	0.048828	169.0	166.2	1.7	65-165	20	M4	M4
Benzene	0.0639	0.0603	ND	0.048828	130.9	124.9	4.7	69-129	20	M4	
Toluene	0.0505	0.0508	ND	0.048828	103.4	105.3	1.8	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	730	702		500	146.0	140.4		76-124		S7	S7
Toluene-d8	407	409		500	81.4	81.8		75-116			

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

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Site: 318 S. Livermore Avenue, Livermore

Legend and Notes

Analysis Flag

N1

Internal standard out of range.

Result Flag

H2

Analyzed out of holding time.

M4

MS/MSD spike recoveries were above acceptance limits.
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Total Lead

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97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B-3@40'	06/03/2005 12:39	Soil	24
B-3@45'	06/03/2005 12:46	Soil	25

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-3@40	Lab ID: 2005-06-0162-24
Sampled: 06/03/2005 12:39	Extracted: 6/24/2005 15:23
Matrix: Soil	QC Batch#: 2005/06/24-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.0	1.0	mg/Kg	1.00	06/24/2005 19:34	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-3@45	Lab ID: 2005-06-0162 - 25
Sampled: 06/03/2005 12:46	Extracted: 6/24/2005 15:23
Matrix: Soil	QC Batch#: 2005/06/24-03-15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.5	1.0	mg/Kg	1.00	06/24/2005 19:44	

Total Lead

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97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 3050B			Test(s): 6010B
Method Blank		Soil	QC Batch # 2005/06/24-03.15
MB: 2005/06/24-03.15-087			Date Extracted: 06/24/2005 15:23

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	06/24/2005 19:23	

Total Lead

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Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report

Prep(s): 3050B Test(s): 6010B

Laboratory Control Spike **Soil** **QC Batch # 2005/06/24-03.15**

LCS 2005/06/24-03.15-088 Extracted: 06/24/2005 Analyzed: 06/24/2005 19:26

LCSD 2005/06/24-03.15-089 Extracted: 06/24/2005 Analyzed: 06/24/2005 19:30

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	96.9	94.3	100.0	96.9	94.3	2.7	80-120	20		

Total Lead

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97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B-2@5'	06/02/2005 09:31	Soil	1
B-2@10'	06/02/2005 11:05	Soil	2
B-2@15'	06/02/2005 11:20	Soil	3
B-2@20'	06/02/2005 11:28	Soil	4
B-2@25'	06/02/2005 11:34	Soil	5
B-2@30'	06/02/2005 12:01	Soil	6
B-2@25'	06/02/2005 12:00	Water	7
B-1@5'	06/02/2005 11:14	Soil	8
B-1@10'	06/02/2005 13:11	Soil	9
B-1@15'	06/02/2005 13:20	Soil	10
B-1@20'	06/02/2005 13:23	Soil	11
B-1@25'	06/02/2005 13:56	Soil	12
B-1@30'	06/02/2005 15:04	Soil	13
B-1@35'	06/02/2005 15:15	Soil	14
B-1@30'	06/02/2005 15:10	Water	15
B-1@40.5'	06/03/2005 11:50	Water	16
B-3@5'	06/02/2005 12:11	Soil	17
B-3@10'	06/03/2005 10:50	Soil	18
B-3@15'	06/03/2005 10:59	Soil	19
B-3@20'	06/03/2005 11:11	Soil	20
B-3@25'	06/03/2005 11:17	Soil	21
B-3@30'	06/03/2005 12:24	Soil	22
B-3@35'	06/03/2005 12:32	Soil	23
GRAB B-3@31'	06/03/2005 12:00	Water	27
HYDROPUNCH B-3@31'	06/03/2005 11:50	Water	28
B-3@51'	06/03/2005 14:55	Water	29

Total Lead

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Attn.: Debbie Arnold

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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-2@5	Lab ID: 2005-06-0162 - 1
Sampled: 06/02/2005 09:31	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.9	1.0	mg/Kg	1.00	06/09/2005 12:33	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-2@10	Lab ID: 2005-06-0162 - 2
Sampled: 06/02/2005 11:05	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.4	1.0	mg/Kg	1.00	06/09/2005 12:43	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	B-2@15	Lab ID:	2005-06-0162 - 3
Sampled:	06/02/2005 11:20	Extracted:	6/8/2005 09:01
Matrix:	Soil	QC Batch#:	2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.8	1.0	mg/Kg	1.00	06/09/2005 12:47	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-2@20	Lab ID: 2005-06-0162 - 4
Sampled: 06/02/2005 11:28	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.8	1.0	mg/Kg	1.00	06/09/2005 12:50	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-2@25	Lab ID: 2005-06-0162 - 5
Sampled: 06/02/2005 11:34	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01-15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.7	1.0	mg/Kg	1.00	06/09/2005 13:00	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-2@30	Lab ID: 2005-06-0162 - 6
Sampled: 06/02/2005 12:01	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.7	1.0	mg/Kg	1.00	06/09/2005 13:04	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3010A	Test(s): 6010B
Sample ID: B-2@25	Lab ID: 2005-06-0162 - 7
Sampled: 06/02/2005 12:00	Extracted: 6/7/2005 14:10
Matrix: Water	QC Batch#: 2005/06/07-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.56	0.0050	mg/L	1.00	06/09/2005 11:58	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-1@5	Lab ID: 2005-06-0162 - 8
Sampled: 06/02/2005 11:14	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.8	1.0	mg/Kg	1.00	06/09/2005 13:07	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-1@10	Lab ID: 2005-06-0162 - 9
Sampled: 06/02/2005 13:11	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.9	1.0	mg/Kg	1.00	06/09/2005 13:10	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-1@15	Lab ID: 2005-06-0162 - 10
Sampled: 06/02/2005 13:20	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.9	1.0	mg/Kg	1.00	06/09/2005 13:14	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-1@20	Lab ID: 2005-06-0162 - 11
Sampled: 06/02/2005 13:23	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01:15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	8.2	1.0	mg/Kg	1.00	06/09/2005 13:17	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-1@25	Lab ID: 2005-06-0162 - 12
Sampled: 06/02/2005 13:56	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.1	1.0	mg/Kg	1.00	06/09/2005 13:21	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-1@30	Lab ID: 2005-06-0162 - 13
Sampled: 06/02/2005 15:04	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.4	1.0	mg/Kg	1.00	06/09/2005 13:24	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	B-1@35	Lab ID:	2005-06-0162 - 14
Sampled:	06/02/2005 15:15	Extracted:	6/8/2005 09:01
Matrix:	Soil	QC Batch#:	2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.0	1.0	mg/Kg	1.00	06/09/2005 13:28	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3010A	Test(s): 6010B
Sample ID: B-1@30	Lab ID: 2005-06-0162 - 15
Sampled: 06/02/2005 15:10	Extracted: 6/7/2005 14:10
Matrix: Water	QC Batch#: 2005/06/07-03 15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.21	0.0050	mg/L	1.00	06/09/2005 12:02	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3010A	Test(s): 6010B
Sample ID: B-1@40.5	Lab ID: 2005-06-0162 - 16
Sampled: 06/03/2005 11:50	Extracted: 6/7/2005 14:10
Matrix: Water	QC Batch#: 2005/06/07-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.12	0.0050	mg/L	1.00	06/09/2005 12:06	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-3@5	Lab ID: 2005-06-0162 - 17
Sampled: 06/02/2005 12:11	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.4	1.0	mg/Kg	1.00	06/09/2005 13:31	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s):	3050B	Test(s):	6010B
Sample ID:	B-3@10	Lab ID:	2005-06-0162 - 18
Sampled:	06/03/2005 10:50	Extracted:	6/8/2005 09:01
Matrix:	Soil	QC Batch#:	2005/06/08-01:15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	17	1.0	mg/Kg	1.00	06/09/2005 13:41	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-3@15	Lab ID: 2005-06-0162 - 19
Sampled: 06/03/2005 10:59	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01 15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.7	1.0	mg/Kg	1.00	06/09/2005 13:44	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-3@20	Lab ID: 2005-06-0162 -20
Sampled: 06/03/2005 11:11	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.4	1.0	mg/Kg	1.00	06/09/2005 13:48	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-3@25	Lab ID: 2005-06-0162 - 21
Sampled: 06/03/2005 11:17	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.5	1.0	mg/Kg	1.00	06/09/2005 13:51	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-3@30	Lab ID: 2005-06-0162-22
Sampled: 06/03/2005 12:24	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.3	1.0	mg/Kg	1.00	06/09/2005 13:55	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3050B	Test(s): 6010B
Sample ID: B-3@35	Lab ID: 2005-06-0162 - 23
Sampled: 06/03/2005 12:32	Extracted: 6/8/2005 09:01
Matrix: Soil	QC Batch#: 2005/06/08-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.0	1.0	mg/Kg	1.00	06/09/2005 13:58	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3010A	Test(s): 6010B
Sample ID: GRAB B-3@31	Lab ID: 2005-06-0162 - 27
Sampled: 06/03/2005 12:00	Extracted: 6/7/2005 14:10
Matrix: Water	QC Batch#: 2005/06/07-03-15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.094	0.0050	mg/L	1.00	06/09/2005 12:09	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3010A	Test(s): 6010B
Sample ID: HYDROPUNCH B-3@31	Lab ID: 2005-06-0162 - 28
Sampled: 06/03/2005 11:50	Extracted: 6/7/2005 14:10
Matrix: Water	QC Batch#: 2005/06/07-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.22	0.0050	mg/L	1.00	06/09/2005 12:19	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Prep(s): 3010A	Test(s): 6010B
Sample ID: B-3@51	Lab ID: 2005-06-0162 - 29
Sampled: 06/03/2005 14:55	Extracted: 6/9/2005 15:09
Matrix: Water	QC Batch#: 2005/06/09-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	0.032	0.0050	mg/L	1.00	06/10/2005 12:13	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report					
Prep(s): 3010A					Test(s): 6010B
Method Blank		Water			QC Batch # 2005/06/07-03.15
MB: 2005/06/07-03.15-047					Date Extracted: 06/07/2005 14:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.0050	mg/L	06/09/2005 10:33	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report					
Prep(s): 3050B				Test(s): 6010B	
Method Blank		Soil		QC Batch # 2005/06/08-01-15	
MB: 2005/06/08-01-15-072				Date Extracted: 06/08/2005 09:01	

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	06/09/2005 12:22	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report		
Prep(s): 3010A		Test(s): 6010B
Method Blank	Water	QC Batch # 2005/06/09-03.15
MB: 2005/06/09-03.15-039		Date Extracted: 06/09/2005 15:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.0050	mg/L	06/10/2005 11:05	

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report

Prep(s): 3010A Test(s): 6010B
Laboratory Control Spike **Water** **QC Batch # 2005/06/07-03:15**
 LCS 2005/06/07-03:15-048 Extracted: 06/07/2005 Analyzed: 06/09/2005 10:36
 LCSD 2005/06/07-03:15-049 Extracted: 06/07/2005 Analyzed: 06/09/2005 10:39

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	0.491	0.483	0.500	98.2	96.6	1.6	80-120	20		

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report										
Prep(s): 3050B					Test(s): 6010B					
Laboratory Control Spike			Soil			QC Batch # 2005/06/08-01-15				
LCS	2005/06/08-01-15-073		Extracted: 06/08/2005			Analyzed: 06/09/2005 12:25				
LCSD	2005/06/08-01-15-074		Extracted: 06/08/2005			Analyzed: 06/09/2005 12:29				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	94.9	94.1	100.0	94.9	94.1	0.8	80-120	20		

Total Lead

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 3010A		Test(s): 6010B	
Laboratory Control Spike		Water	QC Batch # 2005/06/09-03.15
LCS	2005/06/09-03.15-040	Extracted: 06/09/2005	Analyzed: 06/10/2005 11:08
LCSD	2005/06/09-03.15-041	Extracted: 06/09/2005	Analyzed: 06/10/2005 11:18

Compound	Conc. mg/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	0.510	0.505	0.500	102.0	101.0	1.0	80-120	20		

Total Lead

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Batch QC Report			
Prep(s): 3050B			Test(s): 6010B
Matrix Spike (MS / MSD)	Soil	QC Batch # 2005/06/08-01.15	
B-2@5: >> MS			Lab ID: 2005-06-0162 - 001
MS: 2005/06/08-01.15-076	Extracted: 06/08/2005	Analyzed:	06/09/2005 12:36
		Dilution:	1.00
MSD: 2005/06/08-01.15-077	Extracted: 06/08/2005	Analyzed:	06/09/2005 12:40
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Lead	94.8	89.1	3.87	100.0	90.9	87.8	3.5	75-125	20		

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

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Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
B-2@25'	06/02/2005 12:00	Water	7
B-1@30'	06/02/2005 15:10	Water	15
B-1@40.5'	06/03/2005 11:50	Water	16
B-3@31'	06/03/2005 11:50	Water	26
B-3@51'	06/03/2005 14:55	Water	29

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

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Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-2@25	Lab ID: 2005-06-0162 - 7
Sampled: 06/02/2005 12:00	Extracted: 6/14/2005 01:13
Matrix: Water	QC Batch#: 2005/06/13-2B.64
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	06/14/2005 01:13	
Benzene	ND	0.50	ug/L	1.00	06/14/2005 01:13	
Toluene	ND	0.50	ug/L	1.00	06/14/2005 01:13	
Ethylbenzene	ND	0.50	ug/L	1.00	06/14/2005 01:13	
Total xylenes	ND	1.0	ug/L	1.00	06/14/2005 01:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/14/2005 01:13	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/14/2005 01:13	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	06/14/2005 01:13	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	06/14/2005 01:13	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	06/14/2005 01:13	
1,2-DCA	ND	0.50	ug/L	1.00	06/14/2005 01:13	
Surrogate(s)						
1,2-Dichloroethane-d4	143.8	73-130	%	1.00	06/14/2005 01:13	S5
Toluene-d8	119.5	81-114	%	1.00	06/14/2005 01:13	S5

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

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Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@30	Lab ID: 2005-06-0162 - 15
Sampled: 06/02/2005 15:10	Extracted: 6/16/2005 15:44
Matrix: Water	QC Batch#: 2005/06/16-1B.64
Analysis Flag: H1, pH: <2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	83	50	ug/L	1.00	06/16/2005 15:44	
Benzene	8.4	0.50	ug/L	1.00	06/16/2005 15:44	
Toluene	1.1	0.50	ug/L	1.00	06/16/2005 15:44	
Ethylbenzene	1.1	0.50	ug/L	1.00	06/16/2005 15:44	
Total xylenes	2.9	1.0	ug/L	1.00	06/16/2005 15:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/16/2005 15:44	
Methyl tert-butyl ether (MTBE)	1.5	0.50	ug/L	1.00	06/16/2005 15:44	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	06/16/2005 15:44	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	06/16/2005 15:44	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	06/16/2005 15:44	
1,2-DCA	ND	0.50	ug/L	1.00	06/16/2005 15:44	
Surrogate(s)						
1,2-Dichloroethane-d4	96.5	73-130	%	1.00	06/16/2005 15:44	
Toluene-d8	100.0	81-114	%	1.00	06/16/2005 15:44	

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

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Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@40.5'	Lab ID: 2005-06-0162 - 16
Sampled: 06/03/2005 11:50	Extracted: 6/17/2005 08:42 6/17/2005 20:14
Matrix: Water	QC Batch#: 2005/06/17-1A.64 2005/06/17-4A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	130	50	ug/L	1.00	06/17/2005 08:42	
Benzene	ND	0.50	ug/L	1.00	06/17/2005 08:42	
Toluene	ND	0.50	ug/L	1.00	06/17/2005 08:42	
Ethylbenzene	ND	0.50	ug/L	1.00	06/17/2005 08:42	
Total xylenes	ND	1.0	ug/L	1.00	06/17/2005 08:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/17/2005 08:42	
Methyl tert-butyl ether (MTBE)	5.0	0.50	ug/L	1.00	06/17/2005 08:42	
Di-isopropyl Ether (DIPE)	3.9	2.0	ug/L	1.00	06/17/2005 20:14	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	06/17/2005 08:42	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	06/17/2005 08:42	
1,2-DCA	81	0.50	ug/L	1.00	06/17/2005 08:42	
Surrogate(s)						
1,2-Dichloroethane-d4	116.4	73-130	%	1.00	06/17/2005 20:14	
1,2-Dichloroethane-d4	104.9	73-130	%	1.00	06/17/2005 08:42	
Toluene-d8	97.8	81-114	%	1.00	06/17/2005 08:42	
Toluene-d8	106.4	81-114	%	1.00	06/17/2005 20:14	

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

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Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@31	Lab ID: 2005-06-0162 - 26
Sampled: 06/03/2005 11:50	Extracted: 6/17/2005 20:33
Matrix: Water	QC Batch#: 2005/06/17-4A.69
Analysis Flag: H1, pH: <2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	240	50	ug/L	1.00	06/17/2005 20:33	
Benzene	2.4	0.50	ug/L	1.00	06/17/2005 20:33	
Toluene	ND	0.50	ug/L	1.00	06/17/2005 20:33	
Ethylbenzene	0.73	0.50	ug/L	1.00	06/17/2005 20:33	
Total xylenes	ND	1.0	ug/L	1.00	06/17/2005 20:33	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/17/2005 20:33	
Methyl tert-butyl ether (MTBE)	2.0	0.50	ug/L	1.00	06/17/2005 20:33	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	06/17/2005 20:33	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	06/17/2005 20:33	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	06/17/2005 20:33	
1,2-DCA	0.64	0.50	ug/L	1.00	06/17/2005 20:33	
Surrogate(s)						
1,2-Dichloroethane-d4	119.9	73-130	%	1.00	06/17/2005 20:33	
Toluene-d8	108.9	81-114	%	1.00	06/17/2005 20:33	

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

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Site: 318 S. Livermore Avenue, Livermore

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@51	Lab ID: 2005-06-0162 - 29
Sampled: 06/03/2005 14:55	Extracted: 6/16/2005 19:56
Matrix: Water	QC Batch#: 2005/06/16-1A.69
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	06/16/2005 19:56	
Benzene	ND	0.50	ug/L	1.00	06/16/2005 19:56	
Toluene	ND	0.50	ug/L	1.00	06/16/2005 19:56	
Ethylbenzene	ND	0.50	ug/L	1.00	06/16/2005 19:56	
Total xylenes	ND	1.0	ug/L	1.00	06/16/2005 19:56	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/16/2005 19:56	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/16/2005 19:56	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	06/16/2005 19:56	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	06/16/2005 19:56	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	06/16/2005 19:56	
1,2-DCA	ND	0.50	ug/L	1.00	06/16/2005 19:56	
Surrogate(s)						
1,2-Dichloroethane-d4	112.3	73-130	%	1.00	06/16/2005 19:56	
Toluene-d8	104.6	81-114	%	1.00	06/16/2005 19:56	

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

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Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2005/06/13-2B.64
MB: 2005/06/13-2B.64-044			Date Extracted: 06/13/2005 18:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	06/13/2005 18:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/13/2005 18:44	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/13/2005 18:44	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	06/13/2005 18:44	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	06/13/2005 18:44	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	06/13/2005 18:44	
1,2-DCA	ND	0.5	ug/L	06/13/2005 18:44	
Benzene	ND	0.5	ug/L	06/13/2005 18:44	
Toluene	ND	0.5	ug/L	06/13/2005 18:44	
Ethylbenzene	ND	0.5	ug/L	06/13/2005 18:44	
Total xylenes	ND	1.0	ug/L	06/13/2005 18:44	
Surrogates(s)					
1,2-Dichloroethane-d4	115.0	73-130	%	06/13/2005 18:44	
Toluene-d8	107.0	81-114	%	06/13/2005 18:44	

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

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Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2005/06/16-1A.69
MB: 2005/06/16-1A.69-024			Date Extracted: 06/16/2005 19:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	06/16/2005 19:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/16/2005 19:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/16/2005 19:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	06/16/2005 19:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	06/16/2005 19:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	06/16/2005 19:24	
1,2-DCA	ND	0.5	ug/L	06/16/2005 19:24	
Benzene	ND	0.5	ug/L	06/16/2005 19:24	
Toluene	ND	0.5	ug/L	06/16/2005 19:24	
Ethylbenzene	ND	0.5	ug/L	06/16/2005 19:24	
Total xylenes	ND	1.0	ug/L	06/16/2005 19:24	
Surrogates(s)					
1,2-Dichloroethane-d4	105.0	73-130	%	06/16/2005 19:24	
Toluene-d8	108.4	81-114	%	06/16/2005 19:24	

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

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Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank	Water		QC Batch # 2005/06/16-1B.64
MB: 2005/06/16-1B.64-026			Date Extracted: 06/16/2005 07:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	06/16/2005 07:26	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/16/2005 07:26	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/16/2005 07:26	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	06/16/2005 07:26	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	06/16/2005 07:26	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	06/16/2005 07:26	
1,2-DCA	ND	0.5	ug/L	06/16/2005 07:26	
Benzene	ND	0.5	ug/L	06/16/2005 07:26	
Toluene	ND	0.5	ug/L	06/16/2005 07:26	
Ethylbenzene	ND	0.5	ug/L	06/16/2005 07:26	
Total xylenes	ND	1.0	ug/L	06/16/2005 07:26	
Surrogates(s)					
1,2-Dichloroethane-d4	95.4	73-130	%	06/16/2005 07:26	
Toluene-d8	98.8	81-114	%	06/16/2005 07:26	

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

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Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/06/17-1A.64-015

Water

Test(s): 8260B

QC Batch # 2005/06/17-1A.64

Date Extracted: 06/17/2005 07:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	06/17/2005 07:15	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/17/2005 07:15	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/17/2005 07:15	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	06/17/2005 07:15	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	06/17/2005 07:15	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	06/17/2005 07:15	
1,2-DCA	ND	0.5	ug/L	06/17/2005 07:15	
Benzene	ND	0.5	ug/L	06/17/2005 07:15	
Toluene	ND	0.5	ug/L	06/17/2005 07:15	
Ethylbenzene	ND	0.5	ug/L	06/17/2005 07:15	
Total xylenes	ND	1.0	ug/L	06/17/2005 07:15	
Surrogates(s)					
1,2-Dichloroethane-d4	99.2	73-130	%	06/17/2005 07:15	
Toluene-d8	99.6	81-114	%	06/17/2005 07:15	

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

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Project: Consultant Project #SJ31-8LI-1
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Site: 318 S. Livermore Avenue, Livermore

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2005/06/17-4A.69
MB: 2005/06/17-4A.69-028		Date Extracted: 06/17/2005 19:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	06/17/2005 19:28	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/17/2005 19:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/17/2005 19:28	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	06/17/2005 19:28	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	06/17/2005 19:28	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	06/17/2005 19:28	
1,2-DCA	ND	0.5	ug/L	06/17/2005 19:28	
Benzene	ND	0.5	ug/L	06/17/2005 19:28	
Toluene	ND	0.5	ug/L	06/17/2005 19:28	
Ethylbenzene	ND	0.5	ug/L	06/17/2005 19:28	
Total xylenes	ND	1.0	ug/L	06/17/2005 19:28	
Surrogates(s)					
1,2-Dichloroethane-d4	100.2	73-130	%	06/17/2005 19:28	
Toluene-d8	105.2	81-114	%	06/17/2005 19:28	

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

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Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water	QC Batch # 2005/06/13-2B.64	
LCS 2005/06/13-2B.64-020	Extracted: 06/13/2005	Analyzed: 06/13/2005 18:20	
LCSD			

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	29.5		25	118.0			65-165	20		
Benzene	25.5		25	102.0			69-129	20		
Toluene	27.6		25	110.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	562		500	112.4			73-130			
Toluene-d8	556		500	111.2			81-114			

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

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Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/06/16-1A.69			
LCS		2005/06/16-1A.69-005			Extracted: 06/16/2005		Analyzed: 06/16/2005 19:05		
LCSD									

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.9		25	99.6			65-165	20		
Benzene	25.1		25	100.4			69-129	20		
Toluene	25.8		25	103.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	498		500	99.6			73-130			
Toluene-d8	540		500	108.0			81-114			

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) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/06/16-1B.64			
LCS		2005/06/16-1B.64-002		Extracted: 06/16/2005		Analyzed: 06/16/2005 07:02			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.8		25	99.2			65-165	20		
Benzene	22.4		25	89.6			69-129	20		
Toluene	25.6		25	102.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492		500	98.4			73-130			
Toluene-d8	510		500	102.0			81-114			

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/06/17-1A.64			
LCS	2005/06/17-1A.64-004		Extracted: 06/17/2005			Analyzed: 06/17/2005 08:04			
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	29.6		25	118.4			65-165	20		
Benzene	26.7		25	106.8			69-129	20		
Toluene	30.1		25	120.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	487		500	97.4			73-130			
Toluene-d8	493		500	98.6			81-114			

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

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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2005/06/17-4A.69			
LCS		2005/06/17-4A.69-010			Extracted: 06/17/2005		Analyzed: 06/17/2005 19:10		
LCSD									

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.2		25	96.8			65-165	20		
Benzene	23.8		25	95.2			69-129	20		
Toluene	23.2		25	92.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	474		500	94.8			73-130			
Toluene-d8	524		500	104.8			81-114			

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

Delta Env. Consultants San Jose

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San Jose, CA 95119
Phone: (408) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/06/13-2B.64	
MS/MSD			Lab ID: 2005-06-0082 - 002
MS: 2005/06/13-2B.64-037	Extracted: 06/13/2005	Analyzed:	06/13/2005 19:37
		Dilution:	1.00
MSD: 2005/06/13-2B.64-001	Extracted: 06/13/2005	Analyzed:	06/13/2005 20:01
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	29.5	28.2	1.36	25	112.6	107.4	4.7	65-165	20		
Benzene	25.3	24.8	ND	25	101.2	99.2	2.0	69-129	20		
Toluene	27.8	26.5	ND	25	111.2	106.0	4.8	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	541	561		500	108.2	112.2		73-130			
Toluene-d8	540	565		500	108.0	113.0		81-114			

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

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San Jose, CA 95119

Phone: (408) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water		QC Batch # 2005/06/16-1A.69
B-3@51' >> MS			Lab ID: 2005-06-0162 - 029
MS: 2005/06/16-1A.69-014	Extracted: 06/16/2005	Analyzed: 06/16/2005 20:14	Dilution: 1.00
MSD: 2005/06/16-1A.69-032	Extracted: 06/16/2005	Analyzed: 06/16/2005 20:32	Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	20.0	19.7	ND	25	80.0	78.8	1.5	65-165	20		
Benzene	21.0	19.1	ND	25	84.0	76.4	9.5	69-129	20		
Toluene	21.3	19.3	ND	25	85.2	77.2	9.9	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	501	509		500	100.2	101.8		73-130			
Toluene-d8	521	517		500	104.2	103.4		81-114			

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

Delta Env. Consultants San Jose

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San Jose, CA 95119
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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Matrix Spike (MS / MSD)	Water		QC Batch # 2005/06/16-1B.64
MS/MSD			Lab ID: 2005-06-0111 - 004
MS: 2005/06/16-1B.64-019	Extracted: 06/16/2005	Analyzed:	06/16/2005 09:19
		Dilution:	1.00
MSD: 2005/06/16-1B.64-043	Extracted: 06/16/2005	Analyzed:	06/16/2005 09:43
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	23.6	24.7	2.08	25	86.1	90.5	5.0	65-165	20		
Benzene	21.8	23.7	ND	25	87.2	94.8	8.4	69-129	20		
Toluene	23.4	25.2	ND	25	93.6	100.8	7.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	482	476		500	96.4	95.2		73-130			
Toluene-d8	511	510		500	102.2	102.0		81-114			

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) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s):	5030B	Test(s):	8260B
Matrix Spike (MS / MSD)	Water	QC Batch # 2005/06/17-1A.64	
B-1@40.5' >> MS		Lab ID:	2005-06-0162 - 016
MS: 2005/06/17-1A.64-006	Extracted: 06/17/2005	Analyzed:	06/17/2005 09:06
		Dilution:	1.00
MSD: 2005/06/17-1A.64-030	Extracted: 06/17/2005	Analyzed:	06/17/2005 09:30
		Dilution:	1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	33.8	27.6	4.96	25	115.4	90.6	24.1	65-165	20		R1
Benzene	27.9	22.0	ND	25	111.6	88.0	23.6	69-129	20		R1
Toluene	28.8	22.2	ND	25	115.2	88.8	25.9	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	489	514		500	97.8	102.8		73-130			
Toluene-d8	490	494		500	98.0	98.8		81-114			

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

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San Jose, CA 95119
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Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2005/06/17-4A.69
MS/MSD			Lab ID: 2005-06-0204 - 001
MS:	2005/06/17-4A.69-027	Extracted: 06/17/2005	Analyzed: 06/17/2005 21:27
			Dilution: 1.00
MSD:	2005/06/17-4A.69-046	Extracted: 06/17/2005	Analyzed: 06/17/2005 21:46
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	49.0	43.8	24.8	25	96.8	76.0	24.1	65-165	20		R1
Benzene	20.6	19.0	ND	25	82.4	76.0	8.1	69-129	20		
Toluene	19.8	18.7	ND	25	79.2	74.8	5.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	523	508		500	104.7	101.6		73-130			
Toluene-d8	509	524		500	101.7	104.9		81-114			

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

Delta Env. Consultants San Jose

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175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 224-4724 Fax: (408) 224-4518

Project: Consultant Project #SJ31-8LI-1
97464709

Received: 06/06/2005 12:30

Site: 318 S. Livermore Avenue, Livermore

Legend and Notes

Analysis Flag

H1

Extracted out of holding time.

Result Flag

R1

Analyte RPD was out of QC limits.

S5

Surrogate recoveries higher than acceptance limits.
Matrix interference suspected

ANALYTICAL REPORT

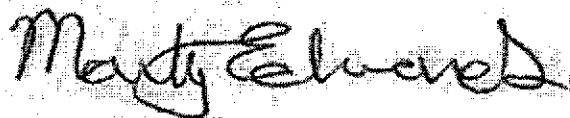
Job Number: 400-3011-1

Job Description: 2005-06-0162

For:

Severn Trent Laboratories, Inc.
1220 Quarry Lane
Pleasanton, CA 94566

Attention: Melissa Brewer



Marty Edwards
Project Manager I
medwards@stl-inc.com
06/24/2005

The test results in this report meet all NELAP requirements for accredited parameters. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced except in full with written approval from the laboratory.

METHOD SUMMARY

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Description	Method	Preparation Method
Matrix: Solid		
EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography	SW846 8011	
Preparation of soil samples for method 8011		SW846 8011
Matrix: Water		
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography	EPA-01 504.1	
EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography		EPA-DW 504.1

REFERENCES

EPA-01 - "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-3011-1	B-2@5'	Solid	06/02/2005 0931	06/10/2005 0935
400-3011-2	B-2@10'	Solid	06/02/2005 1105	06/10/2005 0935
400-3011-3	B-2@15'	Solid	06/02/2005 1120	06/10/2005 0935
400-3011-4	B-2@20'	Solid	06/02/2005 1128	06/10/2005 0935
400-3011-5	B-2@25'	Solid	06/02/2005 1134	06/10/2005 0935
400-3011-6	B-2@30'	Solid	06/02/2005 1201	06/10/2005 0935
400-3011-7	B-1@5'	Solid	06/02/2005 1114	06/10/2005 0935
400-3011-8	B-1@10'	Solid	06/02/2005 1311	06/10/2005 0935
400-3011-9	B-1@15'	Solid	06/02/2005 1320	06/10/2005 0935
400-3011-10	B-1@20'	Solid	06/02/2005 1323	06/10/2005 0935
400-3011-11	B-1@25'	Solid	06/02/2005 1356	06/10/2005 0935
400-3011-12	B-1@30'	Solid	06/02/2005 1504	06/10/2005 0935
400-3011-13	B-1@35'	Solid	06/02/2005 1515	06/10/2005 0935
400-3011-14	B-3@5'	Solid	06/02/2005 1211	06/10/2005 0935
400-3011-15	B-3@10'	Solid	06/03/2005 1050	06/10/2005 0935
400-3011-16	B-3@15'	Solid	06/03/2005 1059	06/10/2005 0935
400-3011-17	B-3@20'	Solid	06/03/2005 1111	06/10/2005 0935
400-3011-18	B-3@25'	Solid	06/03/2005 1117	06/10/2005 0935
400-3011-19	B-2@30'	Solid	06/03/2005 1224	06/10/2005 0935
400-3011-20	B-3@35'	Solid	06/03/2005 1232	06/10/2005 0935
400-3011-21	B-3@40'	Solid	06/03/2005 1239	06/10/2005 0935
400-3011-22	B-3@45'	Solid	06/03/2005 1246	06/10/2005 0935
400-3011-23	B-2@25	Water	06/02/2005 1200	06/10/2005 0935
400-3011-24	B-1@30	Water	06/02/2005 1510	06/10/2005 0935
400-3011-25	B-1@40.5	Water	06/03/2005 1150	06/10/2005 0935
400-3011-26	B-3@31'	Water	06/03/2005 0909	06/10/2005 0935
400-3011-27	B-3@51'	Water	06/03/2005 1455	06/10/2005 0935

SAMPLE RESULTS

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-2@5'

Lab Sample ID: 400-3011-1

Date Sampled: 06/02/2005 0931

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch:	400-7784	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch:	400-7595	Lab File ID:	4801050.D
Dilution:	1.0			Initial Weight/Volume:	10.22 g
Date Analyzed:	06/17/2005 0725			Final Weight/Volume:	35 mL
Date Prepared:	06/14/2005 1533			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.068	U	0.014	0.068

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-2@10'

Lab Sample ID: 400-3011-2

Client Matrix: Solid

Date Sampled: 06/02/2005 1105

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 4901051.D

Dilution: 1.0

Initial Weight/Volume: 10.17 g

Date Analyzed: 06/17/2005 0744

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.069	U	0.014	0.069

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-2@15'

Lab Sample ID: 400-3011-3

Client Matrix: Solid

Date Sampled: 06/02/2005 1120

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 5001052.D

Dilution: 1.0

Initial Weight/Volume: 10.16 g

Date Analyzed: 06/17/2005 0804

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.069	U	0.014	0.069
Surrogate		%Rec			Acceptance Limits
4-Bromofluorobenzene		96			70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-2@20'

Lab Sample ID: 400-3011-4

Date Sampled: 06/02/2005 1128

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch: 400-7784	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch: 400-7595	Lab File ID:	5101053.D
Dilution:	1.0		Initial Weight/Volume:	10.03 g
Date Analyzed:	06/17/2005 0823		Final Weight/Volume:	35 mL
Date Prepared:	06/14/2005 1533		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.070	U	0.015	0.070

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-2@25'

Lab Sample ID: 400-3011-5

Client Matrix: Solid

Date Sampled: 06/02/2005 1134

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch:	400-7784	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch:	400-7595	Lab File ID:	5201054.D
Dilution:	1.0			Initial Weight/Volume:	10.11 g
Date Analyzed:	06/17/2005 0842			Final Weight/Volume:	35 mL
Date Prepared:	06/14/2005 1533			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.069	U	0.015	0.069

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-2@30'

Lab Sample ID: 400-3011-6

Client Matrix: Solid

Date Sampled: 06/02/2005 1201

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 5301055.D

Dilution: 1.0

Initial Weight/Volume: 10.38 g

Date Analyzed: 06/17/2005 0901

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.067	U	0.014	0.067

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-1@5'

Lab Sample ID: 400-3011-7

Client Matrix: Solid

Date Sampled: 06/02/2005 1114

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 5401056.D

Dilution: 1.0

Initial Weight/Volume: 10.06 g

Date Analyzed: 06/17/2005 0921

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.070	U	0.015	0.070

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: **B-1@10'**

Lab Sample ID: 400-3011-8

Date Sampled: 06/02/2005 1311

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 5501057.D

Dilution: 1.0

Initial Weight/Volume: 10.25 g

Date Analyzed: 06/17/2005 0940

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.068	U	0.014	0.068

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-1@15'

Lab Sample ID: 400-3011-9

Client Matrix: Solid

Date Sampled: 06/02/2005 1320

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 5601058.D

Dilution: 1.0

Initial Weight/Volume: 10.06 g

Date Analyzed: 06/17/2005 0959

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.070	U	0.015	0.070

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-1@20'

Lab Sample ID: 400-3011-10
Client Matrix: Solid

Date Sampled: 06/02/2005 1323
Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011 Analysis Batch: 400-7784 Instrument ID: GC/ECD/ECD
Preparation: 8011 Prep Batch: 400-7595 Lab File ID: 5701059.D
Dilution: 1.0 Initial Weight/Volume: 10.43 g
Date Analyzed: 06/17/2005 1018 Final Weight/Volume: 35 mL
Date Prepared: 06/14/2005 1533 Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.067	U	0.014	0.067
Surrogate		%Rec			Acceptance Limits
4-Bromofluorobenzene		93			70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-1@25'

Lab Sample ID: 400-3011-11

Client Matrix: Solid

Date Sampled: 06/02/2005 1356

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011 Analysis Batch: 400-7784 Instrument ID: GC/ECD/ECD
Preparation: 8011 Prep Batch: 400-7595 Lab File ID: 5801060.D
Dilution: 1.0 Initial Weight/Volume: 10.32 g
Date Analyzed: 06/17/2005 1037 Final Weight/Volume: 35 mL
Date Prepared: 06/14/2005 1533 Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.068	U	0.014	0.068

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-1@30'

Lab Sample ID: 400-3011-12

Date Sampled: 06/02/2005 1504

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch: 400-7784	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch: 400-7595	Lab File ID:	5901061.D
Dilution:	1.0		Initial Weight/Volume:	10.20 g
Date Analyzed:	06/17/2005 1056		Final Weight/Volume:	35 mL
Date Prepared:	06/14/2005 1533		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.069	U	0.014	0.069

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-1@35'

Lab Sample ID: 400-3011-13

Client Matrix: Solid

Date Sampled: 06/02/2005 1515

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 6001062.D

Dilution: 1.0

Initial Weight/Volume: 9.98 g

Date Analyzed: 06/17/2005 1115

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.070	U	0.015	0.070
Surrogate		%Rec			Acceptance Limits
4-Bromofluorobenzene		103			70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: **B-3@5'**

Lab Sample ID: 400-3011-14

Date Sampled: 06/02/2005 1211

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch:	400-7784	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch:	400-7595	Lab File ID:	6101063.D
Dilution:	1.0			Initial Weight/Volume:	10.08 g
Date Analyzed:	06/17/2005 1135			Final Weight/Volume:	35 mL
Date Prepared:	06/14/2005 1533			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.069	U	0.015	0.069
Surrogate		%Rec			Acceptance Limits
4-Bromofluorobenzene		98			70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-3@10'

Lab Sample ID: 400-3011-15

Client Matrix: Solid

Date Sampled: 06/03/2005 1050

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch:	400-7784	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch:	400-7595	Lab File ID:	6201064.D
Dilution:	1.0			Initial Weight/Volume:	10.39 g
Date Analyzed:	06/17/2005 1154			Final Weight/Volume:	35 mL
Date Prepared:	06/14/2005 1533			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.067	U	0.014	0.067

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-3@15'

Lab Sample ID: 400-3011-16

Date Sampled: 06/03/2005 1059

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 6301065.D

Dilution: 1.0

Initial Weight/Volume: 10.21 g

Date Analyzed: 06/17/2005 1214

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.069	U	0.014	0.069

Surrogate

%Rec

Acceptance Limits

4-Bromofluorobenzene

99

70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-3@20'

Lab Sample ID: 400-3011-17

Date Sampled: 06/03/2005 1111

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch: 400-7784	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch: 400-7595	Lab File ID:	6401066.D
Dilution:	1.0		Initial Weight/Volume:	10.02 g
Date Analyzed:	06/17/2005 1233		Final Weight/Volume:	35 mL
Date Prepared:	06/14/2005 1533		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.070	U	0.015	0.070

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-3@25'

Lab Sample ID: 400-3011-18

Date Sampled: 06/03/2005 1117

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch:	400-7784	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch:	400-7595	Lab File ID:	6501067.D
Dilution:	1.0			Initial Weight/Volume:	10.00 g
Date Analyzed:	06/17/2005 1252			Final Weight/Volume:	35 mL
Date Prepared:	06/14/2005 1533			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.070	U	0.015	0.070

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: **B-2@30'**

Lab Sample ID: 400-3011-19

Date Sampled: 06/03/2005 1224

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7784

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7595

Lab File ID: 6601068.D

Dilution: 1.0

Initial Weight/Volume: 10.35 g

Date Analyzed: 06/17/2005 1311

Final Weight/Volume: 35 mL

Date Prepared: 06/14/2005 1533

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.068	U	0.014	0.068

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-3@35'

Lab Sample ID: 400-3011-20

Date Sampled: 06/03/2005 1232

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011 Analysis Batch: 400-7784 Instrument ID: GC/ECD/ECD
Preparation: 8011 Prep Batch: 400-7595 Lab File ID: 6701069.D
Dilution: 1.0 Initial Weight/Volume: 10.01 g
Date Analyzed: 06/17/2005 1330 Final Weight/Volume: 35 mL
Date Prepared: 06/14/2005 1533 Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.070	U	0.015	0.070

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: **B-3@40'**

Lab Sample ID: 400-3011-21

Date Sampled: 06/03/2005 1239

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method:	8011	Analysis Batch:	400-7785	Instrument ID:	GC/ECD/ECD
Preparation:	8011	Prep Batch:	400-7651	Lab File ID:	7301075.D
Dilution:	1.0			Initial Weight/Volume:	10.26 g
Date Analyzed:	06/17/2005 1526			Final Weight/Volume:	35 mL
Date Prepared:	06/15/2005 1049			Injection Volume:	
				Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.068	U	0.014	0.068

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: **B-3@45'**

Lab Sample ID: 400-3011-22

Date Sampled: 06/03/2005 1246

Client Matrix: Solid

Date Received: 06/10/2005 0935

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method: 8011

Analysis Batch: 400-7785

Instrument ID: GC/ECD/ECD

Preparation: 8011

Prep Batch: 400-7651

Lab File ID: 7401076.D

Dilution: 1.0

Initial Weight/Volume: 10.01 g

Date Analyzed: 06/17/2005 1546

Final Weight/Volume: 35 mL

Date Prepared: 06/15/2005 1049

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Ethylene Dibromide		0.070	U	0.015	0.070
Surrogate		%Rec			Acceptance Limits
4-Bromofluorobenzene		97			70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-1@30

Lab Sample ID: 400-3011-24

Date Sampled: 06/02/2005 1510

Client Matrix: Water

Date Received: 06/10/2005 0935

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1

Analysis Batch: 400-7734

Instrument ID: GC/ECD/ECD

Preparation: 504.1

Prep Batch: 400-7656

Lab File ID: 1501017.D

Dilution: 1.0

Initial Weight/Volume: 35 mL

Date Analyzed: 06/16/2005 2049

Final Weight/Volume: 35 mL

Date Prepared: 06/15/2005 1119

Injection Volume:

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene Dibromide	0.020	U	0.0024	0.020
Surrogate	%Rec		Acceptance Limits	
4-Bromofluorobenzene	142	*	70 - 130	

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: **B-1@40.5**

Lab Sample ID: 400-3011-25

Date Sampled: 06/03/2005 1150

Client Matrix: Water

Date Received: 06/10/2005 0935

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method:	504.1	Analysis Batch:	400-7734	Instrument ID:	GC/ECD/ECD
Preparation:	504.1	Prep Batch:	400-7656	Lab File ID:	1601018.D
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	06/16/2005 2108			Final Weight/Volume:	35 mL
Date Prepared:	06/15/2005 1119			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene Dibromide	0.020	U	0.0024	0.020

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: **B-2@25**

Lab Sample ID: 400-3011-23

Date Sampled: 06/02/2005 1200

Client Matrix: Water

Date Received: 06/10/2005 0935

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1

Analysis Batch: 400-7734

Instrument ID: GC/ECD/ECD

Preparation: 504.1

Prep Batch: 400-7656

Lab File ID: 1401016.D

Dilution: 1.0

Initial Weight/Volume: 35 mL

Date Analyzed: 06/16/2005 2029

Final Weight/Volume: 35 mL

Date Prepared: 06/15/2005 1119

Injection Volume:

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene Dibromide	0.020	U	0.0024	0.020
Surrogate	%Rec			Acceptance Limits
4-Bromofluorobenzene	121			70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-3@31'

Lab Sample ID: 400-3011-26

Date Sampled: 06/03/2005 0909

Client Matrix: Water

Date Received: 06/10/2005 0935

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method: 504.1

Analysis Batch: 400-7734

Instrument ID: GC/ECD/ECD

Preparation: 504.1

Prep Batch: 400-7656

Lab File ID: 1701019.D

Dilution: 1.0

Initial Weight/Volume: 35 mL

Date Analyzed: 06/16/2005 2127

Final Weight/Volume: 35 mL

Date Prepared: 06/15/2005 1119

Injection Volume:

Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene Dibromide	0.020	U	0.0024	0.020

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	82	70 - 130

Analytical Data

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Client Sample ID: B-3@51'

Lab Sample ID: 400-3011-27

Date Sampled: 06/03/2005 1455

Client Matrix: Water

Date Received: 06/10/2005 0935

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method:	504.1	Analysis Batch:	400-7734	Instrument ID:	GC/ECD/ECD
Preparation:	504.1	Prep Batch:	400-7656	Lab File ID:	1801020.D
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	06/16/2005 2147			Final Weight/Volume:	35 mL
Date Prepared:	06/15/2005 1119			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylene Dibromide	0.020	U	0.0024	0.020

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	70 - 130

QUALITY CONTROL RESULTS

Quality Control Results

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 400-7595				
LCS 400-7595/2-A	Lab Control Spike	Solid	8011	
MB 400-7595/1-A	Method Blank	Solid	8011	
400-3011-A-1-A	B-2@5'	Solid	8011	
400-3011-A-2-A	B-2@10'	Solid	8011	
400-3011-A-3-A	B-2@15'	Solid	8011	
400-3011-A-4-A	B-2@20'	Solid	8011	
400-3011-A-5-A	B-2@25'	Solid	8011	
400-3011-A-6-A	B-2@30'	Solid	8011	
400-3011-A-7-A	B-1@5'	Solid	8011	
400-3011-A-8-A	B-1@10'	Solid	8011	
400-3011-A-9-A	B-1@15'	Solid	8011	
400-3011-A-10-A	B-1@20'	Solid	8011	
400-3011-A-11-A	B-1@25'	Solid	8011	
400-3011-A-12-A	B-1@30'	Solid	8011	
400-3011-A-13-A	B-1@35'	Solid	8011	
400-3011-A-14-A	B-3@5'	Solid	8011	
400-3011-A-15-A	B-3@10'	Solid	8011	
400-3011-A-16-A	B-3@15'	Solid	8011	
400-3011-A-17-A	B-3@20'	Solid	8011	
400-3011-A-18-A	B-3@25'	Solid	8011	
400-3011-A-19-A	B-2@30'	Solid	8011	
400-3011-A-20-A	B-3@35'	Solid	8011	
Prep Batch: 400-7651				
LCS 400-7651/2-A	Lab Control Spike	Solid	8011	
MB 400-7651/1-A	Method Blank	Solid	8011	
400-3011-A-21-A	B-3@40'	Solid	8011	
400-3011-A-22-A	B-3@45'	Solid	8011	
400-3072-B-1-A MS	Matrix Spike	Solid	8011	
400-3072-B-1-A MSD	Matrix Spike Duplicate	Solid	8011	
Prep Batch: 400-7656				
LCS 400-7656/2-A	Lab Control Spike	Water	504.1	
MB 400-7656/1-A	Method Blank	Water	504.1	
400-2993-P-1-A MSD	Matrix Spike Duplicate	Water	504.1	
400-2993-Q-1-A MS	Matrix Spike	Water	504.1	
400-3011-A-23-A	B-2@25'	Water	504.1	
400-3011-A-24-A	B-1@30'	Water	504.1	
400-3011-A-25-A	B-1@40.5'	Water	504.1	
400-3011-A-26-A	B-3@31'	Water	504.1	
400-3011-A-27-A	B-3@51'	Water	504.1	

Quality Control Results

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Analysis Batch:400-7784				
LCS 400-7595/2-A	Lab Control Spike	Solid	8011	400-7595
MB 400-7595/1-A	Method Blank	Solid	8011	400-7595
400-3011-A-1-A	B-2@5'	Solid	8011	400-7595
400-3011-A-2-A	B-2@10'	Solid	8011	400-7595
400-3011-A-3-A	B-2@15'	Solid	8011	400-7595
400-3011-A-4-A	B-2@20'	Solid	8011	400-7595
400-3011-A-5-A	B-2@25'	Solid	8011	400-7595
400-3011-A-6-A	B-2@30'	Solid	8011	400-7595
400-3011-A-7-A	B-1@5'	Solid	8011	400-7595
400-3011-A-8-A	B-1@10'	Solid	8011	400-7595
400-3011-A-9-A	B-1@15'	Solid	8011	400-7595
400-3011-A-10-A	B-1@20'	Solid	8011	400-7595
400-3011-A-11-A	B-1@25'	Solid	8011	400-7595
400-3011-A-12-A	B-1@30'	Solid	8011	400-7595
400-3011-A-13-A	B-1@35'	Solid	8011	400-7595
400-3011-A-14-A	B-3@5'	Solid	8011	400-7595
400-3011-A-15-A	B-3@10'	Solid	8011	400-7595
400-3011-A-16-A	B-3@15'	Solid	8011	400-7595
400-3011-A-17-A	B-3@20'	Solid	8011	400-7595
400-3011-A-18-A	B-3@25'	Solid	8011	400-7595
400-3011-A-19-A	B-2@30'	Solid	8011	400-7595
400-3011-A-20-A	B-3@35'	Solid	8011	400-7595
Analysis Batch:400-7785				
LCS 400-7651/2-A	Lab Control Spike	Solid	8011	400-7651
MB 400-7651/1-A	Method Blank	Solid	8011	400-7651
400-3011-A-21-A	B-3@40'	Solid	8011	400-7651
400-3011-A-22-A	B-3@45'	Solid	8011	400-7651
400-3072-B-1-A MS	Matrix Spike	Solid	8011	400-7651
400-3072-B-1-A MSD	Matrix Spike Duplicate	Solid	8011	400-7651
Analysis Batch:400-7734				
LCS 400-7656/2-A	Lab Control Spike	Water	504.1	400-7656
MB 400-7656/1-A	Method Blank	Water	504.1	400-7656
400-2993-P-1-A MSD	Matrix Spike Duplicate	Water	504.1	400-7656
400-2993-Q-1-A MS	Matrix Spike	Water	504.1	400-7656
400-3011-A-23-A	B-2@25'	Water	504.1	400-7656
400-3011-A-24-A	B-1@30'	Water	504.1	400-7656
400-3011-A-25-A	B-1@40.5'	Water	504.1	400-7656
400-3011-A-26-A	B-3@31'	Water	504.1	400-7656
400-3011-A-27-A	B-3@51'	Water	504.1	400-7656

Quality Control Results

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Surrogate Recovery Report

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Client Matrix: Water

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>(BFB) (%Rec)</u>
400-3011-23	B-2@25	121
400-3011-24	B-1@30	142 *
400-3011-25	B-1@40.5	101
400-3011-26	B-3@31'	82
400-3011-27	B-3@51'	106
400-2993-P-1-A	MSD	113
400-2993-Q-1-A	MS	104
LCS 400-7656/2-A	LCS	97
MB 400-7656/1-A	MB	101

<u>Surrogate</u>	<u>Acceptance Limits</u>
(BFB) 4-Bromofluorobenzene	70 - 130

Quality Control Results

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

Surrogate Recovery Report

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Client Matrix: Solid

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	(BFB) (%Rec)
400-3011-1	B-2@5'	98
400-3011-2	B-2@10'	98
400-3011-3	B-2@15'	96
400-3011-4	B-2@20'	98
400-3011-5	B-2@25'	96
400-3011-6	B-2@30'	94
400-3011-7	B-1@5'	97
400-3011-8	B-1@10'	96
400-3011-9	B-1@15'	98
400-3011-10	B-1@20'	93
400-3011-11	B-1@25'	98
400-3011-12	B-1@30'	98
400-3011-13	B-1@35'	103
400-3011-14	B-3@5'	98
400-3011-15	B-3@10'	95
400-3011-16	B-3@15'	99
400-3011-17	B-3@20'	98
400-3011-18	B-3@25'	101
400-3011-19	B-2@30'	99
400-3011-20	B-3@35'	98
400-3011-21	B-3@40'	94
400-3011-22	B-3@45'	97
400-3072-B-1-A	MS	98
400-3072-B-1-A	MSD	97
LCS 400-7595/2-A	LCS	96

Quality Control Results

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

(BFB)
(%Rec)

LCS 400-7651/2-A	LCS	98
MB 400-7595/1-A	MB	92
MB 400-7651/1-A	MB	99

Surrogate

Acceptance Limits

(BFB)	4-Bromofluorobenzene	70 - 130
-------	----------------------	----------

Quality Control Results

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

504.1 EDB, DBCP, and 123TCP in Water by Microextraction and Gas Chromatography

Method Blank - Batch: 400-7656

Lab ID: MB 400-7656/1-A Date Analyzed: 06/16/2005 1852 Dilution: 1.0
 Matrix: Water Units: ug/L

Analyte	Result	Qualifier	MDL	RL
Ethylene Dibromide	0.020	U	0.0024	0.020

Laboratory Control Sample - Batch: 400-7656

Lab ID: LCS 400-7656/2-A Date Analyzed: 06/16/2005 1912 Dilution: 1.0
 Matrix: Water Units: ug/L

Analyte	Spike Amount	Result	% Rec.	Recovery Limits	Qualifier
Ethylene Dibromide	0.250	0.26	102	88 - 117	

Matrix Spike/Spike Duplicate - Batch: 400-7656

MS Lab ID: 400-2993-Q-1-A MS Date Analyzed: 06/16/2005 1951 Dilution: 1.0
 MSD Lab ID: 400-2993-P-1-A MSD Date Analyzed: 06/16/2005 2010 Dilution: 1.0
 Matrix: Water

Analyte	% Recovery		Recovery Limits	RPD	RPD Limit	Qualifier
	MS	MSD				
Ethylene Dibromide	99	103	77 - 157	4	16	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method Blank - Batch: 400-7595

Lab ID: MB 400-7595/1-A
Matrix: Solid

Date Analyzed: 06/17/2005 0627
Units: ug/Kg

Dilution: 1.0

Analyte	Result	Qualifier	MDL	RL
Ethylene Dibromide	0.070	U	0.015	0.070

Laboratory Control Sample - Batch: 400-7595

Lab ID: LCS 400-7595/2-A
Matrix: Solid

Date Analyzed: 06/17/2005 0647
Units: ug/Kg

Dilution: 1.0

Analyte	Spike Amount	Result	% Rec.	Recovery Limits	Qualifier
Ethylene Dibromide	0.875	0.96	109	70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

8011 EDB, DBCP, and 123TCP by Microextraction and Gas Chromatography

Method Blank - Batch: 400-7651

Lab ID: MB 400-7651/1-A Date Analyzed: 06/17/2005 1350 Dilution: 1.0
 Matrix: Solid Units: ug/Kg

Analyte	Result	Qualifier	MDL	RL
Ethylene Dibromide	0.070	U	0.015	0.070

Laboratory Control Sample - Batch: 400-7651

Lab ID: LCS 400-7651/2-A Date Analyzed: 06/17/2005 1409 Dilution: 1.0
 Matrix: Solid Units: ug/Kg

Analyte	Spike Amount	Result	% Rec.	Recovery Limits	Qualifier
Ethylene Dibromide	0.875	0.96	109	70 - 130	

Matrix Spike/Spike Duplicate - Batch: 400-7651

MS Lab ID: 400-3072-B-1-A MS Date Analyzed: 06/17/2005 1447 Dilution: 1.0
 MSD Lab ID: 400-3072-B-1-A MSD Date Analyzed: 06/17/2005 1507 Dilution: 1.0
 Matrix: Solid

Analyte	% Recovery		Recovery Limits	RPD	RPD Limit	Qualifier
	MS	MSD				
Ethylene Dibromide	104	106	70 - 130	2	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Severn Trent Laboratories, Inc.

Job Number: 400-3011-1

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
GC Semi VOA	U	Analyte was not detected at or above the reporting limit.
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits

From: **STL San Francisco (CL)**
1220 Quarry Lane
Pleasanton, CA 94566-4756

To: **STL Pensacola**
11 East Olive Road
Pensacola, FL 32514

Project Manager: **Melissa Brewer** Phone: **(850) 474-1001** Ext:

Phone: Ext: **(850) 478-2671**

Fax: **(925) 484-1096** Contact: **Sample** Receiving

Email: **mbrewer@stl-inc.com** Phone: **(850) 474-1001** Ext:

CL Submission #: **2005-06-0162** Project #: **Consultant Project #SJ31-8LI-1**

CL PO #: Project Name: **97464709**

EDF Global ID: **T0600156427**

Client Sample ID	Analysis	Sampled	Matrix	Method
B-2@5'		1 6/2/2005 9:31:00AM	Soil	
EDF Field ID: B-2@5'				
Subcontract - EDB by EPA 504			504	5 Day
B-2@10'		2 6/2/2005 11:05:00AM	Soil	
EDF Field ID: B-2@10'				
Subcontract - EDB by EPA 504			504	5 Day
B-2@15'		3 6/2/2005 11:20:00AM	Soil	
EDF Field ID: B-2@15'				
Subcontract - EDB by EPA 504			504	5 Day
B-2@20'		4 6/2/2005 11:28:00AM	Soil	
EDF Field ID: B-2@20'				
Subcontract - EDB by EPA 504			504	5 Day
B-2@25'		5 6/2/2005 11:34:00AM	Soil	
EDF Field ID: B-2@25'				
Subcontract - EDB by EPA 504			504	5 Day
B-2@30'		6 6/2/2005 12:01:00PM	Soil	
EDF Field ID: B-2@30'				
Subcontract - EDB by EPA 504			504	5 Day

RELINQUISHED BY: 1.

Bryan Thomas 15:00
Signature Time

Bryan Thomas 6/9/05
Printed Name Date

STL-SF
Company

RELINQUISHED BY: 2.

Signature Time

Printed Name Date

Company

RELINQUISHED BY: 3.

Signature Time

Printed Name Date

Company

RECEIVED BY: 1.

Linda L. Kitt 09:35
Signature Time

Linda L. Kitt 6/10/05
Printed Name Date

STL-FI
Company

RECEIVED BY: 2.

Signature Time

Printed Name Date

Company

RECEIVED BY: 3.

Signature Time

Printed Name Date

Company

From:
STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To:
STL Pensacola
11 East Olive Road
Pensacola, FL 32514

Project Manager: Melissa Brewer
Phone: Ext:
Fax: (925) 484-1096
Email: mbrewer@stl-inc.com

Phone: (850) 474-1001 Ext:
Fax: (850) 478-2671
Contact: Sample Receiving
Phone: (850) 474-1001 Ext:

CL Submission #: 2005-06-0162
CL PO #:

Project #: Consultant Project #SJ31-8LI-1
Project Name: 97464709
EDF Global ID: T0600156427

Client Sample ID	Analysis	Sampled	Matrix	Method
B-2@25'		7	6/2/2005 12:00:00PM	Water
EDF Field ID: B-2@25'				
Subcontract - EDB by EPA 504				504 5 Day
B-1@5'		8	6/2/2005 11:14:00AM	Soil
EDF Field ID: B-1@5'				
Subcontract - EDB by EPA 504				504 5 Day
B-1@10'		9	6/2/2005 1:11:00PM	Soil
EDF Field ID: B-1@10'				
Subcontract - EDB by EPA 504				504 5 Day
B-1@15'		10	6/2/2005 1:20:00PM	Soil
EDF Field ID: B-1@15'				
Subcontract - EDB by EPA 504				504 5 Day
B-1@20'		11	6/2/2005 1:23:00PM	Soil
EDF Field ID: B-1@20'				
Subcontract - EDB by EPA 504				504 5 Day
B-1@25'		12	6/2/2005 1:56:00PM	Soil
EDF Field ID: B-1@25'				
Subcontract - EDB by EPA 504				504 5 Day

RELINQUISHED BY: 1.
 Signature: *[Signature]* Time: 1500
 Printed Name: Bryan Thomas Date: 6/9/05
 Company: STL-SF

RECEIVED BY: 1.
 Signature: *[Signature]* Time: 0935
 Printed Name: Linda L. K. H. Date: 6/10/05
 Company: STL-F1

RELINQUISHED BY: 2.
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

RECEIVED BY: 2.
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

RELINQUISHED BY: 3.
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

RECEIVED BY: 3.
 Signature: _____ Time: _____
 Printed Name: _____ Date: _____
 Company: _____

SEVERN

TRENT

STL

Date Shipped: 6/9/2005

Chain of Custody

2005-06-0162 - 1

From: STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To: STL Pensacola
11 East Olive Road
Pensacola, FL 32514

Project Manager: Melissa Brewer
Phone: Ext:
Fax: (925) 484-1096
Email: mbrewer@stl-inc.com

Phone: (850) 474-1001 Ext:
Fax: (850) 478-2671
Contact: Sample Receiving
Phone: (850) 474-1001 Ext:

CL Submission #: 2005-06-0162
CL PO #:

Project #: Consultant Project #SJ31-8LI-1
Project Name: 97464709
EDF Global ID: T0600156427

Table with columns: Client Sample ID, Analysis, Samples, Date/Time, Matrix, Method. Contains 8 rows of sample data including B-1@30, B-1@35, B-1@40.5, B-3@5, and B-3@10.

RELINQUISHED BY: 1. Signature: [Signature], Time: 1500, Printed Name: Bryan Thomas, Date: 6/9/05, Company: STL-SF

RELINQUISHED BY: 2. Signature: _____, Time: _____, Printed Name: _____, Date: _____, Company: _____

RELINQUISHED BY: 3. Signature: _____, Time: _____, Printed Name: _____, Date: _____, Company: _____

RECEIVED BY: 1. Signature: [Signature], Time: 0935, Printed Name: Linda L. Kitt, Date: 6/10/05, Company: STL-FI

RECEIVED BY: 2. Signature: _____, Time: _____, Printed Name: _____, Date: _____, Company: _____

RECEIVED BY: 3. Signature: _____, Time: _____, Printed Name: _____, Date: _____, Company: _____

SEVERN

TRENT

STL

Chain of Custody

Date Shipped: 6/9/2005

2005-06-0162 - 1

From: STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To: STL Pensacola
11 East Olive Road
Pensacola, FL 32514

Project Manager: Melissa Brewer
Phone: Ext:
Fax: (925) 484-1096
Email: mbrewer@stl-inc.com

Phone: (850) 474-1001 Ext:
Fax: (850) 478-2671
Contact: Sample Receiving
Phone: (850) 474-1001 Ext:

CL Submission #: 2005-06-0162
CL PO #:

Project #: Consultant Project #SJ31-8LI-1
Project Name: 97464709
EDF Global ID: T0600156427

Table with columns: Client Sample ID, Analysis, Date, Time, Material, and Duration. Contains 7 rows of sample data (B-3@15' to B-3@40').

RELINQUISHED BY: 1. Signature: Bryan Thomas, Time: 1500, Date: 6/9/05, Company: STL-SF

RELINQUISHED BY: 2. Signature: _____, Time: _____, Date: _____, Company: _____

RELINQUISHED BY: 3. Signature: _____, Time: _____, Date: _____, Company: _____

RECEIVED BY: 1. Signature: Kinde L. Kitt, Time: 0935, Date: 6/10/05, Company: STL-FI

RECEIVED BY: 2. Signature: _____, Time: _____, Date: _____, Company: _____

RECEIVED BY: 3. Signature: _____, Time: _____, Date: _____, Company: _____

SEVERN

TRENT

STL

Chain of Custody

Date Shipped: 6/9/2005

2005-06-0162 - 1

From: STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To: STL Pensacola
11 East Olive Road
Pensacola, FL 32514

Project Manager: Melissa Brewer
Phone: Ext
Fax: (925) 484-1096
Email: mbrewer@stl-inc.com

Phone: (850) 474-1001 Ext
Fax: (850) 478-2671
Contact: Sample Receiving
Phone: (850) 474-1001 Ext

CL Submission #: 2005-06-0162
CL PO #:

Project #: Consultant Project #SJ31-8LI-1
Project Name: 97464709
EDF Global ID: T0600156427

Table with columns: Client Sample ID, Analysis, Matrix, Method, Date/Time. Rows include B-3@45', B-3@31', and B-3@51' with associated EDF Field IDs and subcontract information.

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1. Signature: [Signature], Time: 1500, Printed Name: Bryan Thomas, Date: 6/9/05, Company: STL-SF

RELINQUISHED BY: 2. Signature: _____, Time: _____, Printed Name: _____, Date: _____, Company: _____

RELINQUISHED BY: 3. Signature: _____, Time: _____, Printed Name: _____, Date: _____, Company: _____

RECEIVED BY: 1. Signature: [Signature], Time: 0935, Printed Name: Linda L. Kitt, Date: 6/10/05, Company: STL-F1

RECEIVED BY: 2. Signature: _____, Time: _____, Printed Name: _____, Date: _____, Company: _____

RECEIVED BY: 3. Signature: _____, Time: _____, Printed Name: _____, Date: _____, Company: _____

STL PENSACOLA Certifications, Memberships & Affiliations

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/05

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/11/05

Arkansas Department of Pollution Control and Ecology, (88-0689) (Environmental), expires 07/01/05

California Department of Health Services, ELAP Laboratory ID No. 2510 (Hazardous Waste and Wastewater), expires 03/31/06

Connecticut Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/05

Florida DOH, NELAP Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/05

Florida DEP/DOH CompQAP # 980156

Illinois Environmental Laboratory Accreditation Program (ELAP), NELAP Laboratory ID No. 200041 (Wastewater and Hazardous Waste), expires 10/09/04

Iowa Department of Natural Resources, Laboratory ID No. 367 (Wastewater, UST, Solid Waste, & Contaminated Sites), expires 08/01/06

Kansas Department of Health & Environment, NELAP Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/04

Kentucky NR&EPC, Laboratory ID No. 90043 (Drinking Water), expires 12/31/04

Kentucky Petroleum Storage Tank Env Assurance Fund, Laboratory ID No. 0053 (UST), expires 11/7/05

Louisiana DEQ, LELAP, NELAP Laboratory ID No. 02075, Agency Interest ID 30748. Environmental, expires 6/30/05

Maryland DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/05

Massachusetts DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/05

Michigan Bureau of E&Occh, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/05

New Hampshire DES ELAP, NELAP Laboratory ID No. 250502 (Drinking Water & Wastewater), expires 08/16/05

New Jersey DEP&E, NELAP Laboratory ID No. FL006 (Wastewater and Hazardous Waster), expires 06/30/05

North Carolina DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/05

North Dakota DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Arizona), expires 06/30/04

Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/05

Pennsylvania Department of Environmental Resources, NELAP Laboratory ID No. 68-467 (Drinking Water & Wastewater), expires 12/01/04

South Carolina DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/05

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 10/15/07

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/05

West Virginia DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater), expires 04/30/05

EPA ICR (Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031

NFESC (Naval Facilities Engineering Services Center), expires September 7, 2004

USACE (United States Army Corps. of Engineers), MRD, expires July 16, 2005

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

cert\lst\condcert.lst revised 05/04/05

1220 Quarry Lane
Pleasanton, CA 94600

Shell Project Manager to be involved:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CHMT HOUSTON

Denis Brown

2005-06-0162

INCIDENT NUMBER (SEE ONLY)

9 7 4 6 4 7 0 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 6/6/05

PAGE: 1 of 3

SAMPLES CONTRACT: Delta Environmental Consultants, Inc. ADDRESS: 175 Bernal Rd, Suite 200, San Jose CA, 95119 PROJECT CONTACT (Name/Title): Debbie Arnold TELEPHONE: (408) 224-4724 FAX: (408) 225-8506 EMAIL: darnold@dellaenv.com		LOG CODE: KHMS SITE ADDRESS (Street and City): 318 S. Livermore Avenue, Livermore EOP DELIVERABLE TO (Person/Company): Heather Buckingham (408) 224-4724 EMAIL: hbuckingham@dellaenv.com CONSULTANT PROJECT NO.: S.J31-811-1	GLOBAL ID NO.: T0600156427 LAB USE ONLY:
--	--	--	--

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

LA - RWY/CB REPORT FORMAT UST AGENCY

DCMS MISE CONFIRMATION: HIGHEST _____ HIGHEST per DORNS _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EOD IS NOT NEEDED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (M015m)	BTEX	MTBE	BBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Arsenic <input type="checkbox"/> STC <input type="checkbox"/> TSP	LUPIS <input type="checkbox"/> TML <input type="checkbox"/> STC <input type="checkbox"/> TSP	CAMEX <input type="checkbox"/> TML <input type="checkbox"/> STC <input type="checkbox"/> TSP	Test for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT	
		DATE	TIME																				
	B-2@5'	6/2/05	9:31	soil	1	X		X			X	X					X					EDB by EPA Method 504	2
	B-2@10'	6/2/05	11:05	soil	1	X		X			X	X					X					EDB by EPA Method 504	
	B-2@15'	6/2/05	11:20	soil	1	X		X			X	X					X					EDB by EPA Method 504	
	B-2@20'	6/2/05	11:28	soil	1	X		X			X	X					X					EDB by EPA Method 504	
	B-2@25'	6/2/05	11:34	soil	1	X		X			X	X					X					EDB by EPA Method 504	
	B-2@30'	6/2/05	12:01	soil	1	X		X			X	X					X					EDB by EPA Method 504	
	B-2@25'	6/2/05 & 6/3/05	12:00 & 9:33	p.w.	6	X		X			X	X					X					EDB by EPA Method 504	
	B-1@5'	6/2/05	11:14	soil	1	X		X			X	X					X					EDB by EPA Method 504	
	B-1@10'	6/2/05	13:11	soil	1	X		X			X	X					X					EDB by EPA Method 504	
	B-1@15'	6/2/05	13:20	soil	1	X		X			X	X					X					EDB by EPA Method 504	

Requested by (Signature): Heather Buckingham Date: 6-6-05 Time: 1230	Received by (Signature): [Signature] Date: 6-6-05 Time: 1630
---	---

1220 Quarry Lane
Pleasanton, CA 94506

Shell Project Manager to be Invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CIVIL HOUSTON

Denis Brown

2005-06-0162

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 0 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 6/6/05

PAGE: 2 of 3

SAMPLING COMPANY: Delta Environmental Consultants, Inc.
ADDRESS: 175 Bernal Rd, Suite 200, San Jose CA, 95119
PROJECT CONTACT (Company or POF Representative): Debbie Arnold
TELEPHONE: (408) 224-4724
FAX: (408) 225-0606
E-MAIL: darndel@deltaenv.com

LOG CODE: KHMS

SHIP ADDRESS (State and City): 318 S. Livermore Avenue, Livermore

GLOBAL ID #: T0600156427

SHIP DELIVERABLE TO (Preservative Party or Designer): Heather Buckingham
PHONE NO.: (408) 224-4724
E-MAIL: hbuckingham@deltaenv.com
CONSULTANT PROJECT ID.: SJ31-81-1

SHIP LOT NUMBER (if any): Heather Buckingham

LAB USE ONLY:

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

IA - INVOICED REPORT FORMAT UST AGENCY

GCMMS MDS CONFIRMATION: HIGHEST _____ HIGHEST PER BORING _____ ALL _____

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (EOTPH)	BTEX	MTBE	SBA	# Oxygenates	1,2-DCA and EDB	Ethanol	Methanol	VOCs by #280B	Semi-Volatiles by #270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TSP	LUFTS <input type="checkbox"/> Total <input type="checkbox"/> STS <input type="checkbox"/> TSP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STS <input type="checkbox"/> TSP	Test for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT °C	
		DATE	TIME																				
	B-1@20'	6/2/05	13:23	soil	1	X	X				X	X					X					EDB by EPA Method 504	2
	B-1@25'	6/2/05	13:56	soil	1	X	X				X	X					X					EDB by EPA Method 504	
	B-1@30'	6/2/05	15:04	soil	1	X	X				X	X					X					EDB by EPA Method 504	
	B-1@35'	6/2/05	15:15	soil	1	X	X				X	X					X					EDB by EPA Method 504	
	B-1@30'	6/2/05	15:18	g.vl.	4	X	X				X	X					X					EDB by EPA Method 504	
	B-1@40.5'	6/3/05	9:09	g.w.	4	X	X				X	X					X					EDB by EPA Method 504	
	B-3@5'	6/2/05	12:11	soil	1	X	X				X	X					X					EDB by EPA Method 504	
	B-3@10'	6/3/05	10:50	soil	1	X	X				X	X					X					EDB by EPA Method 504	
	B-3@15'	6/3/05	10:59	soil	1	X	X				X	X					X					EDB by EPA Method 504	
	B-3@20'	6/3/05	11:11	soil	1	X	X				X	X					X					EDB by EPA Method 504	

Released by (Signature): Heather Buckingham
Received by (Signature): [Signature]
Date: 6-6-05
Time: 1230

Released by (Signature): [Signature]
Received by (Signature): [Signature]
Date: 6-6-05
Time: 1630

1220 Quarry Lane
Pleasanton, CA 94588

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

2005-06-0162

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 0 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 6/6/05

PAGE: 3 of 3

AMPLIFY COMPANY: Delta Environmental Consultants, Inc. ADDRESS: 175 Bernal Rd, Suite 200, San Jose CA, 95110 PROJECT CONTACT (Name/Title/Phone/Fax): Debbie Arnold TELEPHONE: (408) 224-4724 FAX: (408) 225-0600 E-MAIL: darnold@delaeny.com		LOG CODE: KHMS	SITE ADDRESS (Street and City): 318 S. Livermore Avenue, Livermore	SPECIAL ID#: T06DD156427
DELIVERABLE TO (Name/Title/Phone/Fax): Heather Buckingham (408) 224-4724 SUPPLIER/USER'S POC: Heather Buckingham		PHONE NO.: (408) 224-4724	E-MAIL: hbuckingham@delaeny.com	CONTRACT NUMBER: 5J31-9L1-1

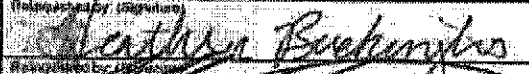



TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQC REPORT FORMAT USE AGENCY

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDB IS NOT NEEDED

REQUESTED ANALYSIS

LUB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Ringable	TPH - Extractable (E01&02)	BTEX	MTBE	BBA	6 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> TEL <input type="checkbox"/> ATLC <input type="checkbox"/> TCLP	LUFTS <input type="checkbox"/> TEL <input type="checkbox"/> ATLC <input type="checkbox"/> TCLP	CAMP17 <input type="checkbox"/> TEL <input type="checkbox"/> ATLC <input type="checkbox"/> TCLP	Test for Disposal	TEMPERATURE ON RECEIPT °C	FIELD NOTES: Containers/Preservative or PID Readings or Laboratory Notes
		DATE	TIME																			
	B-3@25'	6/3/05	11:17	soil	1	X		X			X	X					X					EDB by EPA Method 504
	B-3@30'	6/3/05	12:24	soil	1	X		X			X	X					X					EDB by EPA Method 504
	B-3@35'	6/3/05	12:32	soil	4	X		X			X	X					X					EDB by EPA Method 504
	B-3@40'	6/3/05	12:39	soil	1	X		X			X	X					X					EDB by EPA Method 504
	B-3@45'	6/3/05	12:46	soil	1	X		X			X	X					X					EDB by EPA Method 504
	B-3@31'	6/3/05	11:50	g.w.	2	X		X			X	X										EDB by EPA Method 504
	grab B-3@31'	6/3/05	12:00	g.w.	1												X					EDB by EPA Method 504
	hydropunch B-3@31'	6/3/05	11:50	g.w.	1												X					EDB by EPA Method 504
	B-3@51'	6/3/05	14:55	g.w.	4	X		X			X	X					X					EDB by EPA Method 504

Released by (Signature): 	Received by (Signature): 	Date: 6-6-05 Time: 1230
Released by (Signature): 	Received by (Signature): 	Date: 6-6-05 Time: 1630