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Alameda County  
Environmental Health



**Shell Oil Products US**

January 18, 2006

Re: **Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, California**

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document(s) or report are 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 light gray rectangular background.

Denis L. Brown  
Sr. Environmental Engineer



Solving environment-related business problems worldwide

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San Jose, California 95119 USA  
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January 18, 2006  
Project SJ65-70S-1

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

Re: **Site Conceptual Model/Soil and Groundwater Investigation**  
**Shell Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, California**

Dear Mr. Wickham,

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the attached electronic submittal of the requested *Site Conceptual Model/Soil and Groundwater Investigation* for the above-referenced site.

#### REMARKS

The recommendations and conclusions contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

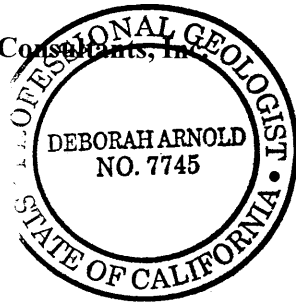
If you have any questions regarding this site, please contact Debbie Arnold (Delta) at (408) 826-1873.

Sincerely,

Delta Environmental Consultants, Inc.



Debbie Arnold  
Project Geologist  
PG 7745



ATTACHMENTS:

CD – Site Conceptual Model/ Soil and Groundwater Investigation, January 18, 2006

cc: Denis Brown, Shell Oil Products US, Carson  
Isabel Mejia, Shell Oil Products US, Carson (hard copy)

Shell Oil Products US  
Updated Site Conceptual Model (January 2006)  
Shell-branded Service Station  
6750 Santa Rita Road, Pleasanton, California

Explanation of abbreviations at bottom of table.

	DESCRIPTION and DISCUSSION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
<b>Regional Setting</b>	<p><b>Geology/Stratigraphy</b>  The site is located within the north-western portion of the Livermore Valley. A <a href="#">geologic map</a> and <a href="#">geologic cross section</a> covering the site area are included in California DWR Bulletin 118-2. The site is located on what is mapped as <a href="#">Younger Fluvial Deposits (Qyfo)</a>. Qyfo deposits are described as unconsolidated, mainly fine grained sand, silt, and silty clay deposits. Qyfo deposits grade south of the site into interfluvial basin deposits (Ob), described as poorly sorted, organic-rich clays.</p>		<p><a href="#">Surficial geology map</a>  <a href="#">Geologic Cross Section</a>  <a href="#">USGS topographic map</a></p>	DWR Bulletin 118-2 (June 1974)			
	<p><b>Hydrogeology</b>  The site is located on the southern edge of the <a href="#">Camp Subbasin</a> of the Livermore Valley Groundwater Basin. The Camp Subbasin is bounded on the north by the Tassajara Formation. The overall permeability of the Tassajara Formation is primarily reduced by the presence of clay in the coarser-grained beds. Groundwater does not flow from the Tassajara Formation to the Camp Subbasin due to a lack of hydraulic continuity between the Tassajara Formation and the overlying water-bearing units.</p> <p>The Camp Subbasin is bounded on the west by the Pleasanton Fault and on the east by the Mocho Fault. Groundwater flows parallel to these faults.</p> <p>Groundwater in the Camp Subbasin is approximately 25 feet below grade (bg) in the site area, and has a potentiometric surface which <a href="#">slopes to the southeast</a>, towards the central portion of the Livermore Valley.</p>		<p><a href="#">Zone 7 groundwater contour map</a>  <a href="#">Subbasin Map</a></p>	Zone 7 DWR Bulletin 118-2 (June 1974)			
	<p><b>Nearby Release Sites</b>  <a href="#">Avis Rent A Car System Inc. (Pleasanton)</a>  Avis Rent A Car approximately 2,000 feet west of the Shell site is the closest LUFT site identified. Leak confirmation on 9/28/04. No analytical data available in Geotracker.</p> <p>Two other LUFT sites located approximately ½ mile cross-gradient or downgradient of the Shell site, per Geotracker. Geotracker shows no upgradient LUFT sites.</p>		<p><a href="#">Data from Geotracker</a></p>	SWRCB Geotracker website			

	DESCRIPTION and DISCUSSION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
Site Setting	<p><b>Site Geology</b> The site area is underlain by clays and silts to a depth of approximately 40 feet bg, based on fifteen exploratory soil borings and three cone penetrometer test (CPT) borings. Two separate medium grained clayey sand layers are commonly encountered within the surficial fine-grained soils at depths between 22 and 28 feet bg and 30 and 33 feet bg. A clayey sand to coarse grained sand layer is invariably encountered between approximately 38 and 53 feet bg ("50-foot sand") in most site area borings, underlain by predominately silty and clayey soils to a depth of at least 100 feet bg.</p>		<p><a href="#">Boring Logs for Wells MW-1 through MW-7 and Borings B-1 through B-11</a></p> <p><a href="#">Revised Site Geologic Cross Section</a></p> <p><a href="#">CPT-1 through CPT-3 Boring Logs</a></p>	Gregg In-Situ, (January 2004)			
	<p><b>Groundwater Conditions</b> <i>On-site Well Installations</i> On October 8 and 9, 2002, Delta supervised the drilling and installation of four groundwater monitoring wells (<a href="#">MW-1</a>, <a href="#">MW-2</a>, <a href="#">MW-3</a>, and <a href="#">MW-4</a>) as part of Shell's GRoundwater Assessment Program (GRASP). GRASP is a voluntary initiative by SHELL to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more sensitive receptors. The well locations are shown on the <a href="#">site map</a>.</p> <p>Wells MW-1 through MW-4 vary in total depth from 42 to 44 feet bg. All of the wells, except Well MW-1, are screened within the "50-foot sand" unit. <a href="#">Well construction details</a> are provided on the attached table. Depth to water beneath the site varies annually between approximately 25 and 30 feet bg.</p> <p><i>CPT Investigation</i> In December 2003, Delta supervised the advancement of three CPT borings on-site and off-site (<a href="#">site map</a>). The CPT borings predominantly encountered fine-grained clayey and silty soils to the total depths explored. Interbedded, thin (&lt; 5 ft thick) sandy units were encountered below a depth of approximately 45 feet in all three borings. Most sand layers were encountered at depths between approximately 45 feet and 55 feet bg ("50-foot sand"). A thin, but pervasive silty bed (&lt; 3 feet thick) underlies the sand (<a href="#">Site Geologic Cross Section</a>).</p> <p>In Boring CPT-1 (on-site) two groundwater samples were collected at the apparent sandy intervals of 56 to 59 feet bg, and 70 to 75 feet bg. Three groundwater samples were collected from Boring CPT-2 at the intervals of 47 to 51 feet bg, 80 to 85 feet bg and 98 to 103 feet bg. Three groundwater samples were also collected from Boring CPT-3 at the intervals of 46 to 51 feet bg, 72 to 75 feet bg and 97 to 100 feet bg.</p> <p><i>Off-site Well MW-5 Installation</i> Based on the MTBE detection in one downgradient water sample collected during the CPT investigation, Delta installed off-site down gradient <a href="#">Well MW-5</a> on January 26, 2005 (<a href="#">site map</a>). Well MW-5 is screened across a silty sand located between 27 and 32 feet bg.</p> <p><i>Hydro-Punch Borings B-1, B-4, B-7, &amp; B-11</i> In order to collect groundwater samples form within the "50-foot sand" unit, Delta supervised the advancement of four hydro-punch</p>	<p><a href="#">MW Construction Details</a></p> <p><a href="#">Well Surveys: (11/25/02, 2/2/05, 12/20/05)</a></p>	<p>Boring Logs: <a href="#">MW-1</a>, <a href="#">MW-2</a>, <a href="#">MW-3</a>, and <a href="#">MW-4</a></p> <p><a href="#">CPT-1 through CPT-3 Boring Logs</a></p> <p><a href="#">Site Map</a></p> <p><a href="#">Site Geologic Cross Section</a></p> <p>Boring Log: <a href="#">MW-5</a></p> <p>Boring Logs: <a href="#">B-1</a>, <a href="#">B-4</a>, <a href="#">B-7</a>, and <a href="#">B-11</a></p>	<p><a href="#">Site Assessment Report</a> KHM (March 2003)</p> <p><a href="#">Cone Penetration Test (CPT) Groundwater Investigation</a> Delta (Feb. 2004)</p> <p>Delta (Feb. 2004)</p> <p><a href="#">Quarterly Groundwater Monitoring and Remediation Status Report- First Quarter 2005</a> Delta (April 2005)</p>			

	DESCRIPTION and DISCUSSION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	<p>borings on-site in November 2005. Boring locations are shown on the <a href="#">boring location map</a>. Groundwater in Borings B-1, B-4, B-7, and B-11 was first encountered at depths between approximately 27 feet and 33 feet bg to the total depth in each boring (approximately 50 feet). Hydro-punch groundwater samples were collected between the depths of 47 and 50 feet bg in all four borings.</p> <p><i>Off-site Well MW-6 and MW-7 Installation</i> Due to variant groundwater flow direction ranging between the south-southeast and south-southwest, Delta installed two additional off-site Wells MW-6 and MW-7, on November 22, 2005. Wells MW-6 and MW-7, west and east of Well MW-5, respectively, will further monitor plume stability.</p> <p><i>Fourth Quarter 2005 Groundwater Monitoring</i> Depth to groundwater in the five monitoring wells ranged between 25.91 to 27.72 feet below top of casing. A groundwater elevation contour map based on data from the October 20, 2005 monitoring event indicates a consistent flow direction towards the south at a horizontal gradient of 0.01 feet/feet. The <a href="#">groundwater elevation contour map</a> for fourth quarter 2005 is included. A rose diagram of historic groundwater flow directions is also included on the map.</p>		<p>Boring Logs: <a href="#">MW-6</a> and <a href="#">MW-7</a></p> <p><a href="#">Boring Location Map</a></p> <p><a href="#">Groundwater Elevation Contour Map - October 20, 2005</a></p>	<p><a href="#">Quarterly Groundwater Monitoring and Remediation Status Report - Fourth Quarter 2005</a> Delta (Jan. 2006)</p>			<p>No groundwater was encountered in Borings B-2, B-3, B-5, B-6, B-8, B-9, and B-10. Borings B-2 and B-5 were left open for approximately 2.5 hrs at depths of 25 feet and 16 feet bg, respectively, and remained dry.</p>
	<p><b>Source Area</b> <i>On-Site Well Installation Analytical Results</i> Soil samples collected at a depth of 20 feet bg from the borings for Wells MW-2 and MW-3 in October 2002 (located adjacent to the east and west of the UST complex) did not contain detectable concentrations of TPH-G, BTEX compounds, or the five fuel oxygenates. These two samples were the only soil samples collected for analysis from borings for site wells, based on elevated photoionization detector (PID) readings. Per GRASP protocol, only samples exhibiting a PID reading &gt; 10 ppmV were submitted for laboratory testing.</p> <p><i>UST, Product Piping, and Dispenser Removals</i> In November and December 2002, KHM (now Delta) performed soil sampling and analyses associated with UST, Product Piping and Dispenser removals. Out of eight soil samples collected from the base of the UST pit (14 feet bg), MTBE was detected in all but one soil sample (T-1DF, located in the northwestern corner of the UST complex). TBA was detected in all but two of the UST soil samples, T-1DF and T-2F (also located towards the north western corner).</p> <p>Out of twenty-six soil samples collected beneath dispensers and product piping, MTBE was only detected in soil Sample P-6@6.5' (0.9 ug/l), located approximately 35 feet from the south eastern corner of the UST complex in the piping trench adjacent to dispenser D-4. TBA was not detected in any of the twenty-six samples.</p> <p>Low levels of TPH (&lt; 20 mg/kg) and BTEX (&lt; 1 mg/kg) compounds were detected in a total of seven sampling locations from beneath USTs, piping, and dispensers. These seven locations, along with the locations of oxygenate detections, are indicated in red on the <a href="#">Soil Impacts Map</a>.</p>	<p><a href="#">Summary of Soil Analytical Data</a></p>	<p><a href="#">Tank Pull Sampling Concentrations Map</a></p>	<p><a href="#">Site Assessment Report</a> KHM (March 2003)</p> <p><a href="#">Tank Pull Report</a> KHM (Dec. 2002)</p>			<p>No over-excavation conducted within tank complex following petroleum hydrocarbon and oxygenate detections (due to saturated soils, standing water, and proximity of UST complex sidewall to station building).</p>

	DESCRIPTION and DISCUSSION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	<p>Based on the soil analytical data collected during the fuel system upgrade, the primary source area appears to be beneath the UST complex, and, in particular, the southeastern portion of the UST complex (maximum soil concentration (MTBE) = 2.5 mg/kg).</p> <p><i>Site Soil Investigation</i>  In order to define the lateral and vertical extent of soil impacts detected during fuel system removal activities, Delta advanced 11 borings in the vicinity of the UST complex and fuel dispensers (<a href="#">boring location map</a>) on November 14 through 16, 2005. Soil samples collected below the water table (from 30 to 45 feet bg) are considered to be saturated, and therefore may not actually represent soil impacts.</p> <p><u>Soil Analytical Results in the Vicinity of the UST complex:</u>  Borings B-1 through B-4 located in the vicinity of the UST complex contained low-level (&lt; 86 mg/kg) concentrations of TPH-D, xylenes, MTBE, and TBA. Borings B-2 and B-3 were advanced to a total depth of 25 feet bg. Borings B-1 and B-4 were advanced to a total depth of 45 feet bg in order to collect a groundwater sample from the "50-foot sand" unit. TPH-D was detected in Borings B-2, B-3, and B-4 at concentrations ranging from 1.3 mg/kg (Sample B-2@25') to 86 mg/kg (Sample B-2@10'). TPH-D detections did not match the laboratory's standard chromatographic pattern. Xylenes were detected only in Boring B-4 at a depth of 35 feet bg (0.0062 mg/kg). MTBE was detected in Borings B-1, B-2, and B-4 at concentrations ranging from 0.0065 mg/kg (Sample B-1@45') to 0.27 mg/kg (Sample B-4@35'). TBA was detected in Borings B-2 and B-4 at concentrations ranging from 0.014 mg/kg (Sample B-4@40') to 0.076 mg/kg (Sample B-4@45'). With the exception of the MTBE and TBA detections in Boring B-2 and the non-matching TPH-D detections, all other soil concentrations were detected in saturated soils from beneath the water table.</p> <p><u>Soil Analytical Results in the Vicinity of the dispensers:</u>  Borings B-5 through B-11 located in the vicinity of fuel dispensers and product piping contained concentrations of TPH-D, xylenes, MTBE, and TBA. Borings B-5, B-6, B-8, B-9, and B-10 were advanced to a total depth of 15 feet bg. Boring B-7 and B-11 were advanced to a total depth of 45 feet bg in order to collect groundwater samples from the "50-foot sand" unit. TPH-D was detected in Borings B-5, B-10, and B-11 at concentrations ranging from 1.9 mg/kg (Sample B-11@5') to 320 mg/kg (Sample B-10@10'). TPH-D detections did not match the laboratory's standard chromatographic pattern. Xylenes were detected in only one sample from Boring B-11 at a concentration of 0.0062 mg/kg (Sample B-11@35'). MTBE was detected in Borings B-9, B-10, and B-11 at concentrations ranging from 0.0051 mg/kg (Boring B-10@5') to 0.27 mg/kg (Boring B-11@35'). TBA was detected in Borings B-9 and B-11 at concentrations ranging from 0.011 mg/kg (Sample B-9@10') to 0.39 mg/kg (Sample B-11@45').</p> <p>Soil analytical data from the site soil investigation indicates a presence of minor soil impacts within the vadose zone along the northern edge of the UST complex to a depth of 25 feet bg (max. MTBE concentration = 0.068 mg/kg). Oxygenate impacted soils were</p>		<p><a href="#">Boring Location Map</a></p> <p>Boring Logs: <a href="#">B-1</a>, <a href="#">B-2</a>, <a href="#">B-3</a>, and <a href="#">B-4</a></p> <p><a href="#">Concentrations of TPH-D/MTBE/TBA in Vadose Zone Map</a></p> <p>Boring Logs: <a href="#">B-5</a>, <a href="#">B-6</a>, <a href="#">B-7</a>, <a href="#">B-8</a>, <a href="#">B-9</a>, <a href="#">B-10</a>, and <a href="#">B-11</a></p>	<p>Delta (January 2006)</p>			<p>Eleven out of the sixty samples collected during November 2005 contained concentrations of MTBE above the SF RWQCB ESL's. Five of these samples were collected within the saturated zone and may represent groundwater concentrations from the dissolved plume, rather than a residual source area in the vadose zone.</p>

	DESCRIPTION and DISCUSSION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	<p>not observed immediately east, west, or south of the UST complex. Fuel oxygenates were detected in two borings advanced adjacent to the western fuel dispenser island at depths ranging from 5 to 15 feet bg. The non-matching TPH-D detections are predominantly located in soils in the east and southeast vicinity of the UST complex, as well as adjacent to the western fuel dispenser island (B-10) and adjacent to one of the fuel dispensers situated in front of the service station building (B-11). TPH-D detections may represent weathered petroleum hydrocarbons (See <a href="#">Laboratory Reports</a>).</p> <p>It appears that there are two residual source areas on-site (the UST complex and the western fuel dispenser island).</p>						
	<p><b>Dissolved plume</b>  During the fuel system upgrade activities in late 2002, groundwater was encountered at the base of the UST pit at a depth of approximately 13 feet bg. Groundwater samples collected from the UST pit contained historical maximum concentrations: TPH-D (55,000 ug/l) and MTBE (11,000 ug/l) = Sample T-2P-W. Concentrations of TPH-G and BTEX compounds were also detected in the UST pit groundwater samples.</p> <p>GRASP well installation activities first detected the dissolved plume downgradient. Based on the detection of MTBE (8,000 ug/l) and TBA (1,500 ug/l) in groundwater samples collected during the initial on-site well sampling event on December 22, 2002, Shell submitted an <a href="#">URR</a> to the Livermore-Pleasanton Fire Department, dated January 6, 2003.</p> <p><i>Hydro-punch Groundwater Sampling of Borings B-1, B-4, B-7, &amp; B-11</i>  On November 14 and 15, 2005, Delta supervised the collection of groundwater samples using hydro-punch technology from Borings B-1, B-4, B-7, and B-11 (site map). Each boring was advanced to a total depth of 45 feet bg. Hydro-punch sampling rods were subsequently pushed to a total depth of 50 feet bg and 2 to 3 feet of screen was exposed between the depths of approximately 47 to 50 feet bg.</p> <p>Boring B-1 was advanced adjacent to Well MW-1 in order to collect a groundwater sample from the "50-foot sand," below the MW-1 screened interval. All analytes tested were below the laboratory detection limit in the groundwater sample collected from B-1.</p> <p>Borings B-4, B-7, and B-11 were advanced downgradient of site USTs in order to laterally define the dissolved phase plume. MTBE was detected in Borings B-4, B-7, and B-11 at concentrations of 0.6 ug/l, 140 ug/l, and 4.5 ug/l, respectively. TBA was only detected in Boring B-7 at a concentration of 12 ug/l (See <a href="#">Laboratory Reports</a>).</p> <p><i>Initial Groundwater Sampling of Off-Site Wells MW-6 and MW-7</i>  Initial groundwater samples were collected from Wells MW-6 and MW-7 on December 7, 2005. TPH-D was detected in both Wells at concentrations of 130 ug/l (Well MW-6) and 190 ug/l (Well MW-7). TPH-D detections did not match the laboratory's standard chromatographic pattern (<a href="#">Well MW-6 and MW-7 Laboratory Report</a>). All other analytes tested were below the laboratory's reporting limit.</p>	<p><a href="#">Summary of Grab Groundwater Analytical Results</a></p> <p><a href="#">Historic Groundwater Analytical Data</a></p>					





	DESCRIPTION and DISCUSSION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	<p><u><i>Batch Groundwater Extraction Events</i></u>  Monthly batch extraction on Wells MW-2 and MW-3 was initiated during third quarter 2003, and continued through fourth quarter 2003. Over the course of six months, the MTBE concentration in Well MW-3 was lowered from a historic high of 15,000 micrograms per liter (ug/l) to 9,800 ug/l. However, on average, less than 40 gallons of water could be extracted from each well during a two-hour period, and Delta/Shell did not continue monthly groundwater batch extractions during first quarter 2004.</p> <p>During third quarter 2004, Delta/Shell initiated an extended groundwater batch extraction event utilizing Wells MW-1, MW-2 and MW-3 due to increasing MTBE groundwater concentrations during first and second quarter 2004. Approximately 4,705 gallons of groundwater were extracted during a six-week period, and an overall decrease in concentrations was observed in site wells during the extraction activities indicating the successful mass removal of oxygenates.</p> <p>During first quarter 2005, Delta/Shell initiated a second extended groundwater batch extraction event utilizing Well MW-2 due to increasing MTBE groundwater concentrations again during fourth quarter 2004. Approximately 2,950 gallons of groundwater were extracted during a two week period, and the concentration of MTBE in Well MW-2 decreased from 5,200 ug/l to 1,300 ug/l. The total mass of MTBE removed from groundwater beneath the site through January 2005 was approximately 0.274 pounds.</p> <p><u><i>Most-recent Groundwater Batch Extraction Event</i></u>  During fourth quarter 2005, Delta/Shell completed a third extended groundwater batch extraction event utilizing Well MW-2. Per ACHCSA letter dated September 9, 2005, groundwater batch extractions are scheduled to continue on a quarterly basis in order to mitigate periodic increases in MTBE concentrations. Approximately 1,118 gallons of groundwater were extracted during a 10-day period in October 2005, and the concentration of MTBE in Well MW-2 decreased from 2,600 ug/l to 1,300 ug/l. However, the mass of MTBE removed from groundwater beneath the site during this extraction event was approximately 0.011 pounds.</p>	<p><a href="#">Summary of Groundwater Extraction Results</a></p> <p><a href="#">Groundwater Extraction - Mass Removal Data</a></p>		<p>Delta (Jan. 2006)</p> <p>Delta (Jan. 2006)</p>			<p>The first quarter 2006 extraction event will be performed during February.</p>
	<p><b>Evaluation of potential impacts to water supply wells</b>  The nearest drinking water supply well was field verified by Delta to be approximately 3,000 feet southeast of the site, and is identified as Well 3S/1E 9B 1 (Stoneridge Well) by Zone 7. According to Mr. Wyman Hong of Zone 7, the depth to the top of the first well screen is 250 feet bg.</p> <p>Additionally, a private well located approximately 2,200 feet west-southwest of the site at 3744 Old Santa Rita Road was previously identified by Delta in 2003. According to Mr. Hong, this well (identified as Well 3S/1E 5R1) was destroyed on June 7, 2004.</p> <p>Migration of petroleum hydrocarbons and fuel oxygenates through the site's primarily clay deposits is anticipated to be slow. Site data indicates that the vertical migration of MTBE and TBA has been limited. The potential for shallow groundwater containing MTBE and</p>		<p><a href="#">Zone 7 Well Survey Map</a>  <a href="#">(Zone 7 Well Survey Map Legend)</a></p>	<p>Zone 7 (2005)</p>			

	DESCRIPTION and DISCUSSION	Data Tables	Graphics	Reference	Data Gaps	Work Necessary to fill data gap	Comments
	TBA to impact a nearby water supply well appears to be low.						

Abbreviations  
DWR = California Department of Water Resources  
Zone 7 = Zone 7 Water District  
LUFT = Leaking Underground Fuel Tank  
MTBE = methyl tert-butyl ether  
TBA = tert-butanol  
bg = below grade  
mg/kg = milligram per kilogram  
ug/l = micrograms per liter  
SF RWQCB = San Francisco Regional Water Quality Control Board  
ESL = Environmental Screening Level from the document "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final – February 2005)," prepared by the SF RWQCB

# Delta

Environmental Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-1
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/14/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	2-3"	Please see site map	
Sampling Method:	Geoprobe	Hole Depth:	45'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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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	[Scale]	damp	0.1	Hand Augered	1		AF	~8" of concrete; ~3-4" base rock
					2			
					3		CL	<b>Sandy Lean CLAY:</b> dark grey, 30-40% medium grained sand; low plasticity
					4			
					5		CL	<b>Lean CLAY with sand:</b> medium brown, 10-15% fine grained sand; low to moderate plasticity
					6			
					7			
					8		CL	<b>Sandy Lean CLAY:</b> same as above, traces of coarse grained sand
					9			
					10	0.8		
					11			
					12			
					13		CL	<b>Sandy Lean CLAY:</b> dark brown with grey mottling, moderate plasticity, 20-30% fine grained sand
					14			
					15	0.1		
					16		CL	<b>Lean CLAY with sand:</b> same as above, orange mottling
					17			
					18		CL	<b>Sandy Lean CLAY:</b> same as above, 25-35% sand
					19			
					20	0.1		
					21			
					22			

# Delta

Environmental Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-1
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 2 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/14/2005	Location Map  Please see site map	
Drilling Method:	HSA	Hole Diameter:	2-3"		
Sampling Method:	Geoprobe	Hole Depth:	45'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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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	
Grout		moist wet moist	0.1		23			CL	<b>Lean CLAY:</b> tan with orange mottling, trace coarse grained sand	
	24									
	25									
	26						SP	<b>Poorly graded medium grained SAND:</b> medium brown, 10% fines		
	27						CL	<b>Lean CLAY:</b> same as above. trace coarse grained sand		
	28						CL	<b>Sandy Lean CLAY:</b> tan, 45-50% fine grained sand; low to moderate plasticity		
			wet	0.1		29				
	30						SP	<b>Poorly graded medium grained SAND:</b> same as above		
	31						CL	<b>Sandy lean CLAY:</b> same as above		
	32						SC	<b>Clayey SAND:</b> tan, ~20-30% clay; fine grained poorly graded sand, slight plasticity		
	33						CL	<b>Lean CLAY:</b> same as above		
	34						CL	<b>Sandy Lean CLAY:</b> same as above, medium grained sand, poorly graded		
				0.1		35			SP	<b>Poorly graded medium grained SAND:</b> same as above
	36						SC	<b>Clayey SAND:</b> same as above		
	37						CL	<b>Sandy Lean CLAY:</b> same as above		
	38						CL	<b>Lean CLAY:</b> same as above		
	39									
	40									
				0.1		41			SP	<b>Fine to Medium Grained SAND:</b> poorly graded, medium brown, 10-20% clay
	42									
	43									
	44									
	45									

Boring terminated @ 45 feet below grade

# Delta

**Environmental Consultants, Inc.**

Project No:	SJ67-50S-1	Client:	Shell Oil Products US
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton
Driller:	Gregg Drilling	Date Drilled:	11/16/2005
Drilling Method:	Direct Push	Hole Diameter:	2-3"
Sampling Method:	Geoprobe	Hole Depth:	25'
Casing Type:	N/A	Well Diameter:	N/A
Slot Size:	N/A	Well Depth:	N/A
Gravel Pack:	N/A	Casing Stickup:	N/A

Well No: B-2  
Page 1 of 2

Location Map

Please see site map

Well Completion		Static Water Level	Elevation			Northing			Easting			LITHOLOGY / DESCRIPTION
Backfill	Casing		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery	Sample Interval	Soil Type			
Grout					Hand Augered				AF	~8" of concrete; 2-3" base rock		
		damp				1						
						2						
						3				CL	<b>Lean CLAY with gravels:</b> medium brown, ~15-20% gravel 3/4" in size, moderate plasticity	
		damp	0.1			4						
						5						
						6				CL		
						7					<b>Lean CLAY:</b> dark brown, trace fine grained sand, moderate to high plasticity	
		moist				8						
						9					(same as above, color change to dark grey)	
		damp	0.1			10				CL	<b>Lean CLAY with sand:</b> medium brown with orange mottling; 15-25% fine grained sand, moderate plasticity	
						11						
						12						
						13				CL	<b>Lean CLAY:</b> same as above, brownish grey with light grey mottling	
						14						
			0.1			15						
						16						
						17						
						18						
						19						
						20						
						21				SW	<b>Fine grained poorly graded SAND:</b> tan, ≤10% fines	
				22				CL	<b>Lean CLAY:</b> same as above, tan			

# Delta

**Environmental Consultants, Inc.**

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-2
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 2 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/16/2005	Location Map  Please see site map	
Drilling Method:	HSA	Hole Diameter:	2-3"		
Sampling Method:	Geoprobe	Hole Depth:	25'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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		Soil Type	LITHOLOGY / DESCRIPTION						
						Recovery	Interval								
Grout		wet	0.1		23			CL	Lean CLAY (Continued)						
					24										
					25										
					26										
					27										
					28										
					29										
					30										
					31										
					32										
					33										
					34										
					35										
					36										
					37										
					38										
					39										
					40										
					41										
					42										
					43										
					44										
					45										
														Boring terminated @ 25 feet below grade	

# Delta

Environmental Consultants, Inc.

Project No: SJ67-50S-1	Client: Shell Oil Products US	Well No: B-3	
Logged By: Heather Buckingham	Location: 6750 Santa Rita Rd, Pleasanton	Page 1 of 1	
Driller: Gregg Drilling	Date Drilled: 11/15/2005	Location Map  Please see site map	
Drilling Method: Direct Push	Hole Diameter: 2-3"		
Sampling Method: Geoprobe	Hole Depth: 20'		
Casing Type: N/A	Well Diameter: N/A		
Slot Size: N/A	Well Depth: N/A		
Gravel Pack: N/A	Casing Stickup: N/A		
Elevation		Northing	Easting

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout		dry	0.1	Hand Augered	1		AF	~8" of concrete; 2-3" base rock
					2			
					3		CL	<b>Sandy Lean CLAY:</b> medium brown, 30-40% sand (medium grained), low plasticity
					4			
					5			(same as above, moderate plasticity)
					6			
					7			
					8		CL	<b>Lean CLAY:</b> dark grey, moderate to high plasticity, trace fine grained sand.
					9			
					10			
					11			
					12		CL	<b>Lean CLAY with sand:</b> dark grey with light grey mottling, 15-25% fine grained sand, moderate to high plasticity
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			



# Delta

**Environmental Consultants, Inc.**

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-3
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 2 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/16/2005	Location Map  Please see site map	
Drilling Method:	HSA	Hole Diameter:	2-3"		
Sampling Method:	Geoprobe	Hole Depth:	25'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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		Soil Type	LITHOLOGY / DESCRIPTION						
						Recovery	Interval								
Grout		wet	0.1		23			CL	Continued						
					24										
					25										
					26										
					27										
					28										
					29										
					30										
					31										
					32										
					33										
					34										
					35										
					36										
					37										
					38										
					39										
					40										
					41										
					42										
					43										
					44										
					45										
															Boring terminated @ 25 feet below grade

# Delta

Environmental Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-4
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/14/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	2-3"	Please see site map	
Sampling Method:	Geoprobe	Hole Depth:	45'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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	~7" of concrete; 2-3" base rock
		dry			1			
					2		CL	<b>Sandy Lean CLAY:</b> medium brown, low plasticity, 30-40% medium grained sand
					3			
		dry	0.1	A/K Hand Augered	4			
					5		CL	<b>Lean CLAY:</b> medium brown, low to medium plasticity, trace fine grained sand
		moist wet			6			
					7			(Same as above, dark brown)
					8			
					9			
					10			
					11			
		damp			12			
					13			
					14			
			0.1		15			
					16			
					17			(Same as above, trace coarse grained sand)
					18			
					19			
					20			
		moist	0.1		21		CL	<b>Lean CLAY with sand:</b> light brown, 15-25% fine grained sand, moderate plasticity
					22		CL	

# Delta

**Environmental Consultants, Inc.**

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-4
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 2 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/14/2005	Location Map  Please see site map	
Drilling Method:	HSA	Hole Diameter:	2-3"		
Sampling Method:	Geoprobe	Hole Depth:	45'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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
Grout	-	damp	0.1		23		CL	<b>Lean CLAY:</b> as above; trace snads, moderate to high plasticity
		24						
		25						
		26					(same as above, tan)	
		27						
		moist	0.1		28		CL	<b>Clayey SAND:</b> tan, poorly graded, very fine grained, 30-40% clay, slight plasticity
		29				SC		
		30				CL	<b>Sandy CLAY:</b> tan, 25-35% fine grained sand moderate plasticity	
		wet	0.1		31		SC	<b>Clayey SAND:</b> same as above
		32						
		33						
		34						
		35						
			0.1		36			
		37				SP	<b>Poorly graded medium grained SAND</b>	
		38						
		39						
		40						
			0.1		41			
		42						
		43						
44								
45					Boring terminated @ 45 feet below grade			

# Delta

Environmental  
Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-5
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 1	
Driller:	Gregg Drilling	Date Drilled:	11/16/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	2-3"	Please see site map	
Sampling Method:	Geoprobe	Hole Depth:	16'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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		damp	0.1	A/K & Hand Auger	1		AF	~7" of concrete; 2-3" base rock
					2		CL	<b>Sandy Lean CLAY:</b> medium brown, slight to low plasticity, 30-40% medium grained sand
					3			
					4			
					5		SC	<b>Clayey SAND:</b> tannish, slight plasticity, 40-45% clay, 55-60% fine grained poorly graded sand
					6			
					7			
					8		CL	<b>Lean CLAY:</b> dark brown, trace fine grained sands, moderate to high plasticity
					9			
					10		0.1	
					11			
					12			
					13			
					14			
					15		0.1	
					16			
					17			
					18			
					19			
					20			
					21			
					22			

Boring terminated @ 16 feet below grade

# Delta

Environmental  
Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-6
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 1	
Driller:	Gregg Drilling	Date Drilled:	11/15/2005	Location Map  Please see site map	
Drilling Method:	Direct Push	Hole Diameter:	2-3"		
Sampling Method:	Geoprobe	Hole Depth:	15'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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					A/K & Hand Auger	1		AF	~8" of concrete; 2-3" base rock
						2		CL	<b>Sandy Lean CLAY:</b> medium brown, 30-40% medium grained sand, low plasticity
						3			
						4			
				0.1		5		CL	<b>Lean CLAY with sand:</b> tannish brown, 15-25% fine grained sand, moderate plasticity
						6			
						7			
						8			
						9			
				0.1		10			
						11			
						12			
						13			
						14		CL	<b>Lean CLAY:</b> dark brown, trace coarse sand, moderate to high plasticity
						15			Boring terminated @ 15 feet below grade
				0.1		16			
						17			
						18			
						19			
						20			
						21			
						22			

# Delta

Environmental  
Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-7
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/15/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	2-3"	Please see site map	
Sampling Method:	Geoprobe	Hole Depth:	45'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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	~8" of concrete; 2-3" base rock
		moist		Hand Augered	1			
					2		CL	<b>Sandy Lean CLAY:</b> dark brownish grey, 25-30% medium grained sand, low to moderate plasticity
					3			
		damp	0.1		4			
					5		CL	<b>Lean CLAY:</b> dark brownish grey, trace fine grained sand, moderate plasticity
					6			
					7			
					8			
					9			
		moist	0.4		10			
					11		CL	(same as above, medium brown)
		damp			12			
					13			
					14			
			0.1		15			
					16			
					17		CL	<b>Lean CLAY with sand:</b> dark brown, 10-20% fine to medium grained sand, moderate plasticity
					18			
					19			
			0.1		20			
					21			
					22		CL	<b>Sandy Lean CLAY:</b> dark brown, 25-35% medium grained sand, moderate plasticity

Grout

# Delta

**Environmental Consultants, Inc.**

Project No: SJ67-50S-1 Client: Shell Oil Products US  
 Logged By: Heather Buckingham Location: 6750 Santa Rita Rd, Pleasanton  
 Driller: Gregg Drilling Date Drilled: 11/15/2005  
 Drilling Method: HSA Hole Diameter: 2-3"  
 Sampling Method: Geoprobe Hole Depth: 45'  
 Casing Type: N/A Well Diameter: N/A  
 Slot Size: N/A Well Depth: N/A  
 Gravel Pack: N/A Casing Stickup: N/A

Well No: B-7  
 Page 2 of 2

Location Map

Please see site map

Elevation Northing Easting

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout		damp	0.1		23		CL	<b>Sandy Lean CLAY:</b> (Continued) same as above, tan
		24						
		25						
		26				CL	<b>Lean CLAY:</b> same as above, tan, moderate plasticity, trace coarse grained sand	
		27						
		28						
		29						
		30				CL	<b>Sandy CLAY:</b> tan, 35-45% sand, low plasticity	
		31						
		32				SC	<b>Clayey SAND:</b> 20-30% clay, fine grained sand poorly graded, slight plasticity	
		33				CL	<b>Lean CLAY:</b> same as above	
		34				SW	<b>Well Graded SAND:</b> tan, medium grained, trace fines	
		35						
		36				CL	<b>Lean CLAY with sand:</b> tan, 15-20% clay, low to moderate plasticity	
		37						
		38						
		39				SC	<b>Clayey SAND:</b> light brown, fine grained poorly graded, slight plasticity	
		40						
		41				CL	<b>Sandy CLAY:</b> light brown, 25-35% fine grained sand, low to moderate plasticity	
		42						
		43				SC	<b>Fine grained SAND with clay:</b> tan, 10-20% clay, poorly graded, slight plasticity, fine grained sand	
		44						
		45						

Boring terminated @ 45 feet below grade





# Delta

Environmental  
Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-9
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 1	
Driller:	Gregg Drilling	Date Drilled:	11/16/2005	Location Map  Please see site map	
Drilling Method:	Direct Push	Hole Diameter:	2-3"		
Sampling Method:	Geoprobe	Hole Depth:	16'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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	~8" of concrete; 2-3" base rock
			dry		Hand Augered	1			
						2		SC	<b>Clayey SAND:</b> tan, slight plasticity, well graded sand, trace gravels up to 1"
						3			
						4			
				0.1		5		CL	<b>Lean CLAY:</b> dark grey, low to moderate plasticity, trace gravels up to 3/4"
						6			
						7			
			damp			8			
						9			
				0.1		10			
						11			(same as above, no trace gravels, moderate to high plasticity)
			damp			12			
						13		CL	<b>Lean CLAY:</b> medium brown, moderate plasticity, ≤10% fine grained sand
						14			
				0.1		15			
						16			Boring terminated @ 16 feet below grade
					17				
					18				
					19				
					20				
					21				
					22				

Grout

# Delta

Environmental Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-10
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 1	
Driller:	Gregg Drilling	Date Drilled:	11/16/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	2-3"	Please see site map	
Sampling Method:	Geoprobe	Hole Depth:	16'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		

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		damp		Hand Augered	1		AF	~8" of concrete; 2-3" base rock
					2		CL	Lean CLAY with sand: medium brown, moderate plasticity, 15-20% medium grained sand, trace gravels ~3/4"
					3			
			0.1		4			
					5			(same as above, dark grey)
					6			
					7			
					8			
			0.1		9			
					10			(same as above, mottled with light grey)
					11			
					12			
					13			
					14			
			0.1		15			
					16			Boring terminated @ 16 feet below grade
					17			
					18			
					19			
					20			
					21			
					22			

# Delta

Environmental Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	B-11
Logged By:	Heather Buckingham	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/14/2005	Location Map  Please see site map	
Drilling Method:	Direct Push	Hole Diameter:	2-3"		
Sampling Method:	Geoprobe	Hole Depth:	45'		
Casing Type:	N/A	Well Diameter:	N/A		
Slot Size:	N/A	Well Depth:	N/A		
Gravel Pack:	N/A	Casing Stickup:	N/A		
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			damp	0.1	A/K Hand Augered	1		AF	~8" of concrete; 2-3" base rock	
						2		CL	<b>Sandy Lean CLAY:</b> dark brown, low plasticity, 30-40% medium grained sand	
						3				
						4				
						5		CL	<b>Lean CLAY:</b> grey, moderate to high plasticity, trace fine grained sand	
						6				
						7				
						8				
						9				
					0.1		10			
				damp moist damp			11			
							12		CL	<b>Lean CLAY:</b> brown, trace gravles, moderate plasticity
							13			
							14			
					0.1		15			
							16		CL	<b>Sandy CLAY:</b> brown mottled with light grey, 25-35% medium grained sand, moderate plasticity
							17		CL	<b>Lean CLAY with sand:</b> 15-25% fine to medium grained sand, moderate plasticity
							18			
							19			
					0.1		20			
							21			
							22			

# Delta

**Environmental Consultants, Inc.**

Project No: SJ67-50S-1 Client: Shell Oil Products US  
 Logged By: Heather Buckingham Location: 6750 Santa Rita Rd, Pleasanton  
 Driller: Gregg Drilling Date Drilled: 11/14/2005  
 Drilling Method: HSA Hole Diameter: 2-3"  
 Sampling Method: Geoprobe Hole Depth: 45'  
 Casing Type: N/A Well Diameter: N/A  
 Slot Size: N/A Well Depth: N/A  
 Gravel Pack: N/A Casing Stickup: N/A

Well No: B-11  
 Page 2 of 2  
 Location Map  
 Please see site map

Elevation Northing Easting

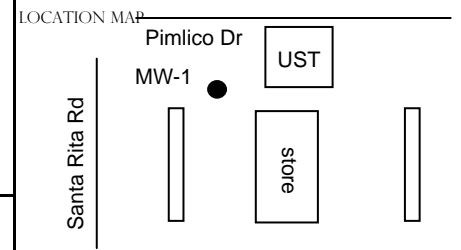
Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout		moist	1.3		23		SC	<b>Clayey SAND:</b> tan, fine grained poorly graded, 25-35% clay, slight plasticity
					24		CL	<b>Sandy CLAY:</b> tan, 35-45% fine grained sand, moderate plasticity
					25		SP	<b>Medium grained poorly graded SAND:</b> trace fines 5-15%
					26		CL	<b>Sandy CLAY:</b> same as above
					26		SP	<b>Medium grained poorly graded SAND:</b> same as above
					27		CL	<b>Sandy CLAY:</b> same as above
					28			
					29			
					30		SP	<b>Poorly graded very fine grained SAND:</b> 10-15% fines
					31			
					32		CL	<b>Sandy CLAY:</b> same as above
					33			
					34		SP	<b>Poorly graded medium grained SAND:</b> tan to medium brown, 10-15% fines
		35		CL	<b>Lean CLAY:</b> same as above			
		36						
		37		SP	<b>Poorly graded medium grained SAND:</b> tan, trace gravels			
		38						
		39						
		40		0.1				
		41						
		42						
		43						
		44						
45		0.1		CL	<b>Sandy CLAY:</b> same as above			

Boring terminated @ 45 feet below grade



PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd  
 DRILLER: Gregg DATE DRILLED: 10/8/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 42.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 42'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-1  
PAGE 2 OF 2



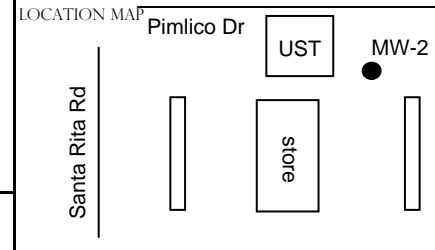
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						23		CH	continued
			damp	4.2	5	24		SP	Poorly Graded SAND; medium brown, very fine grained, loose
					7	25		CH	Fat CLAY; light brown, soft, high plasticity
					9	26			
						27			
						28			
			damp	1.6	4	29			
					5	30		SP	Poorly Graded SAND; medium brown, fine grained
					6	31			
						32			
						33			
			wet		4	34		SC/CH	Clayey SAND and Fat CLAY; alternating 6" layers, (Clayey Sand is medium brown, 60% sand, 40% clay, fine to medium grained sand, moderate plasticity)
					6	35			(Fat Clay is medium brown, stiff, high plasticity)
					7	36			
					13	37			
					7	38		CH	Fat CLAY; medium brown, stiff, high plasticity
					12	39			
					15	40			(grades coarser, 5% fine grained sand)
					5	41			(soft)
			wet		9	42			(stiff)
					10	43			
					5	44			
					6				<b>BOTTOM OF BORING @ 42.5 ft</b>
					8				
					6				
					8				
					11				



PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd  
 DRILLER: Gregg DATE DRILLED: 10/8/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 42.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 42'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-2  
PAGE 2 OF 2



ELEVATION NORTHING EASTING

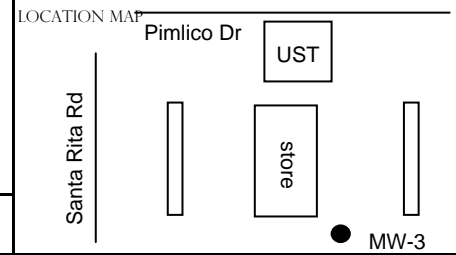
Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						23		CH	cont.
			damp	3.6	2 4 6	24 25			
			damp	4.3	5 8 9	29 30		CH	<b>Fat CLAY</b> ; medium to light brown, 70% clay, 30% silt, soft, friable, high plasticity
		▽	wet		7 12 14	34 35		CH	<b>Gravelly Fat CLAY</b> ; greenish brown, 70% clay, 30% 1/4" gravel
			wet		6 8 9	35 36 37			(grades finer, 10% 1/2" gravel, soft)
			wet		6 8 13 9 11 15 11 17 20	38 39 40 41 42		SP	<b>Clayey SAND</b> ; medium brown with trace black and reddish grains, 70% sand, 30% clay, fine grained sand
						43			<b>BOTTOM OF BORING @ 42.5 ft</b>
						44			





PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd, Pleasanton, CA  
 DRILLER: Gregg DATE DRILLED: 10/9/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 44.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 44'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-3  
 PAGE 1 OF 2

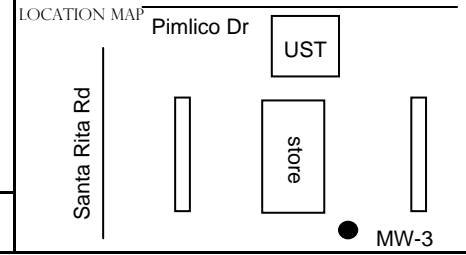


ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill	Casing									
Cement Grout			moist		↑ Air Knifed ↓	1		AF	Concrete 6" thick	
						2		CL	Baserock 2": coarse rounded gravel <b>Sandy Lean CLAY</b> ; dark gray to olive gray, 10-20% fine sand, 10-15% fine gravel, medium plasticity	
						3			(alternating sandy clay and clayey sand)	
						4				
						5			(clay becomes stiffer below 5')	
						6				
				damp			7			
							8			
				damp	2.2		9		CH	<b>Fat CLAY</b> ; uniform dark brown, soft, high plasticity
							10			
							11			
							12			
							13			
				damp	4.6	3	14			(stiff)
						6	15			
						8	16			
							17			
							18			
				damp	20.1	3	19			(10% grey-white coarse sand)
						4	20			
						6	21			
							22			

PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd, Pleasanton, CA  
 DRILLER: Gregg DATE DRILLED: 10/9/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 44.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 44'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-3  
PAGE 2 OF 2



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								
						23		CH	cont.
			damp	2.0	4 6 11	24		SC	<b>Clayey SAND</b> ; medium brown, 75% sand, 25% clay, fine grained, loose
						25			
						26			
						27			
						28		CH	<b>Sandy CLAY</b> ; medium brown, 75% clay, 25% sand, fine grained, soft
			damp	2.0	4 7 8	29			
						30			
						31			
						32			
						33		CH	<b>Fat CLAY</b> ; medium brown, soft, high plasticity
			damp		5 6 7	34			
			damp		4	35			(trace greenish tint to clay)
						36			
			wet damp		4 8	37			(stiff)
						38			
			wet		5 6 8	39			
						40			
			wet		4 6 7	41			(soft, no sand)
						42		SC	<b>Clayey SAND</b> ; brown to orange brown with black grains, 80% sand, 20% clay, fine grained
					7 11	43			(grades coarser, medium to coarse grained sand)
						44			
									<b>BOTTOM OF BORING @ 44.5 ft</b>

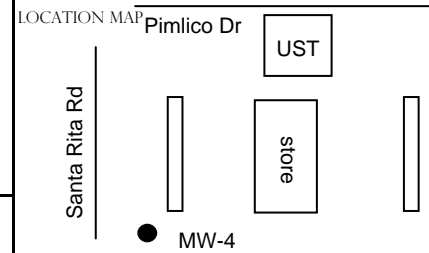


PROJECT NO: C81-6750 Santa Rita	CLIENT: Shell OPUS	BORING/WELL NO: MW-4
LOGGED BY: J. Pearson	LOCATION: 6750 Santa Rita Rd, Pleasanton, CA	PAGE 1 OF 2
DRILLER: Gregg	DATE DRILLED: 10/9/2002	LOCATION MAP 
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: Split Spoon	HOLE DEPTH: 44.5'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010	WELL DEPTH: 44'	
GRAVEL PACK: 2-12	CASING STICKUP: NA	
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
Cement Grout		damp		Air Knifed	1		AF	Concrete ~2" thick
					2		SW	Fill ~8", well graded sand and gravel
		moist		3				<b>Well Graded SAND with Gravel</b> ; brown, fine to coarse sand, ~30% gravel, up to 1.5"
		moist		4			CL	<b>Lean CLAY with Gravel</b> ; dark brown, ~30% gravel, moderate plasticity
				5				(grades finer, <10% gravel)
		damp		6			CH	<b>Fat CLAY</b> ; dark brown, soft, high plasticity
				7				
		damp		8				
				9				
		damp	1.6	10				(stiff)
				11				
				12				
				13				
		dry/damp	1.5	14				(moderate plasticity)
				15				
				16				
				17				
				18				
		damp	2.6	19				(stiff, high plasticity)
				20				
				21				
				22				

PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd, Pleasonton, CA  
 DRILLER: Gregg DATE DRILLED: 10/9/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 44.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 44'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-4  
PAGE 2 OF 2



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								
			damp	0.6	4 6 7	23 24 25		CH	cont. (color change from light brown to dark brown at 24')
			damp	0.1	4 5 10	29 30		SC	<b>Clayey SAND</b> ; medium brown, 70% sand, 30% clay fine grained, loose
		▽	wet		3 4 4 3 4 6 3 3 5 3 4 6 6 8 8 3 5 6 5 7 14	34 35 36 37 38 39 40 41 42 43 44		CH/ SC	<b>Fat CLAY and Clayey SAND</b> ; alternating 18" layers, (Fat clay is brown with greenish mottling and slight FeO staining, soft, high plasticity) (Clayey sand is medium brown, 70% sand, 30% clay, fine grained, dense)  (grades stiffer)
									<b>BOTTOM OF BORING @ 44.5 ft</b>

# Delta

Environmental Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	MW-5
Logged By:	Rebecca Wolff	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 2	
Driller:	Gregg Drilling	Date Drilled:	1/26/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8"	Please see site map	
Sampling Method:	Split Spoon	Hole Depth:	35'		
Casing Type:	Sch. 40 PVC	Well Diameter:	2"		
Slot Size:	0.02	Well Depth:	32'		
Gravel Pack:	#3 Sand	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
				↑ Air Knifed ↓	1		AF	Asphalt and base rock
					1		CL	Lean CLAY; gray, moderate plasticity
					2		CL	Sandy Lean CLAY; gray-brown, 25-35% medium grained sand
					3			
					4			
					5			
					6		CL	Lean CLAY; dark gray, high plasticity, trace coarse grained sand, no dilatancy
					7			
					8			
					9			
					10			(trace caliche, trace gravel, trace red mottling
		damp	0.2	7				small shells in clay)
					8			
					11			
					12			
					13			
					14			(root holes, <5% coarse grained sand,
		damp	0.2	5				trace 1/4" gravel, increased caliche)
					9			
					12			
					15			
					16			
					17			
					18			
					19			(dark brown, trace caliche, root holes, trace
		damp	0.6	4				gravel, trace sand, dark brown mottling
					5			
					10			
					20			
					21			
					22			

Grout

# Delta

**Environmental Consultants, Inc.**

Project No: SJ67-50S-1	Client: Shell Oil Products US	Well No: MW-5
Logged By: Rebecca Wolff	Location: 6750 Santa Rita Rd, Pleasanton	Page 2 of 2
Driller: Gregg Drilling	Date Drilled: 1/26/2005	Location Map  Please see site map
Drilling Method: HSA	Hole Diameter: 8"	
Sampling Method: Split Spoon	Hole Depth: 35'	
Casing Type: Sch. 40 PVC	Well Diameter: 2"	
Slot Size: 0.02	Well Depth: 32'	
Gravel Pack: #3 Sand	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						23		CL	continued (tan)
Bentonite			damp	0.3	4	24		SP-SM	<b>SAND with Silt</b> ; brown, coarse to very coarse sand, 5-15% silty fines
					5	25		CL	
					9	26			
						27			
						28			
		▼	moist wet damp	0.1	10	29		SM	<b>Silty SAND</b> ; brown, medium to fine grained sand (fining downward), 20-30% silt
					17	30			
					20	31			
						32			
						33			
			damp	0.1	3	34		CL	<b>Lean CLAY</b> ; tan, 5-10% fine grained sand, medium plasticity
					4	35			
					5	36			
						37			
						38			
						39			
						40			
						41			
						42			
						43			
						44			
									Bottom of Boring at 35 ft

# Delta

Environmental Consultants, Inc.

Project No: SJ67-50S-1	Client: Shell Oil Products US	Well No: MW-6
Logged By: Heather Buckingham	Location: 6700 Santa Rita Rd, Pleasanton	Page 1 of 2
Driller: Gregg Drilling	Date Drilled: 11/22/2005	Location Map  Please see site map
Drilling Method: HSA	Hole Diameter: 8"	
Sampling Method: Geoprobe	Hole Depth: 29'	
Casing Type: Sch. 40 PVC	Well Diameter: 2"	
Slot Size: 0.001	Well Depth: 29'	
Gravel Pack: #2/12	Casing Stickup: N/A	

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		
Grout		dry	2.5	A/K + hand	1		CL	Lean CLAY: dark grey mottled with light grey; low to moderate plasticity; trace coarse grains of sand		
					2					
					3					
					4					
					5					
					6					
					7				CH	Fat CLAY: dark grey; high plasticity; trace coarse grains of sand
					8					
					9				CL	Lean CLAY: light brown mottled with orange; moderate plasticity
					10					
					11				CL	(darker brown mottled with light grey)
					12					
					13				CL	Sandy lean CLAY: medium brown; 30-40% very fine grained sand
					14					
					15				CL	(darker grey with light grey mottling)
					16					
					17				CL	(lighter brown with orange mottling)
					18					
					19				CL	
					20					
					21				CL	
					22					

# Delta

**Environmental Consultants, Inc.**

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	MW-6
Logged By:	Heather Buckingham	Location:	6700 Santa Rita Rd, Pleasanton	Page 2 of 2	
Driller:	Gregg Drilling	Date Drilled:	11/22/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8"	Please see site map	
Sampling Method:	Geoprobe	Hole Depth:	29'		
Casing Type:	Sch. 40 PVC	Well Diameter:	2"		
Slot Size:	0.001	Well Depth:	29'		
Gravel Pack:	#2/12	Casing Stickup:	N/A		

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
Bentonit					23		CL	continued
			4.3		24		SP	Poorly graded fine grained SAND
					25			
					26		CL	Lean CLAY: light brown; moderate plasticity; trace coarse grained sand
					27			
					28		CL	Sandy CLAY: dark grey; 25-35% fine grained sand; moderate plasticity
			1.4		29			
					30		SC	Clayey SAND: tan; slight plasticity; ranges from 20 to 40% clay
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			



# Delta

Environmental Consultants, Inc.

Project No: SJ67-50S-1	Client: Shell Oil Products US	Well No: MW-7
Logged By: Heather Buckingham	Location: 6700 Santa Rita Rd, Pleasanton	Page 1 of 2
Driller: Gregg Drilling	Date Drilled: 11/22/2005	Location Map  Please see site map
Drilling Method: HSA	Hole Diameter: 8"	
Sampling Method: Geoprobe	Hole Depth: 29'	
Casing Type: Sch. 40 PVC	Well Diameter: 2"	
Slot Size: 0.001	Well Depth: 29'	
Gravel Pack: #2/12	Casing Stickup: N/A	

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
							AF	2-3" of asphalt
		dry			1			
					2		CL	<b>Lean CLAY with sand:</b> dark grey; low plasticity 15-25% fine grained sand
					3			
					4			
		damp	2.3		5			(same as above, low to moderate plasticity; roots)
					6			
					7			(same as above, light grey mottling; mod. plasticity)
					8			
					9			
			1.4		10			(same as above, brown mottling, ~10% fine grained sand)
					11			
					12			
					13			
					14			
			1.8		15			
					16		CL	<b>Sandy Lean CLAY,</b> medium brown, moderate plasticity, 25-35% very fine grained sand
					17		CL	<b>Lean CLAY with sand,</b> same as above, medium brown mottled with light grey
					18			
					19			
			1.4		20			
					21			
					22			

Grout

Bentonite

# Delta






**Environmental Consultants, Inc.**

Project No: SJ67-50S-1	Client: Shell Oil Products US	Well No: MW-7
Logged By: Heather Buckingham	Location: 6700 Santa Rita Rd, Pleasanton	Page 2 of 2
Driller: Gregg Drilling	Date Drilled: 11/22/2005	Location Map  Please see site map
Drilling Method: HSA	Hole Diameter: 8"	
Sampling Method: Geoprobe	Hole Depth: 29'	
Casing Type: Sch. 40 PVC	Well Diameter: 2"	
Slot Size: 0.001	Well Depth: 29'	
Gravel Pack: #2/12	Casing Stickup: N/A	

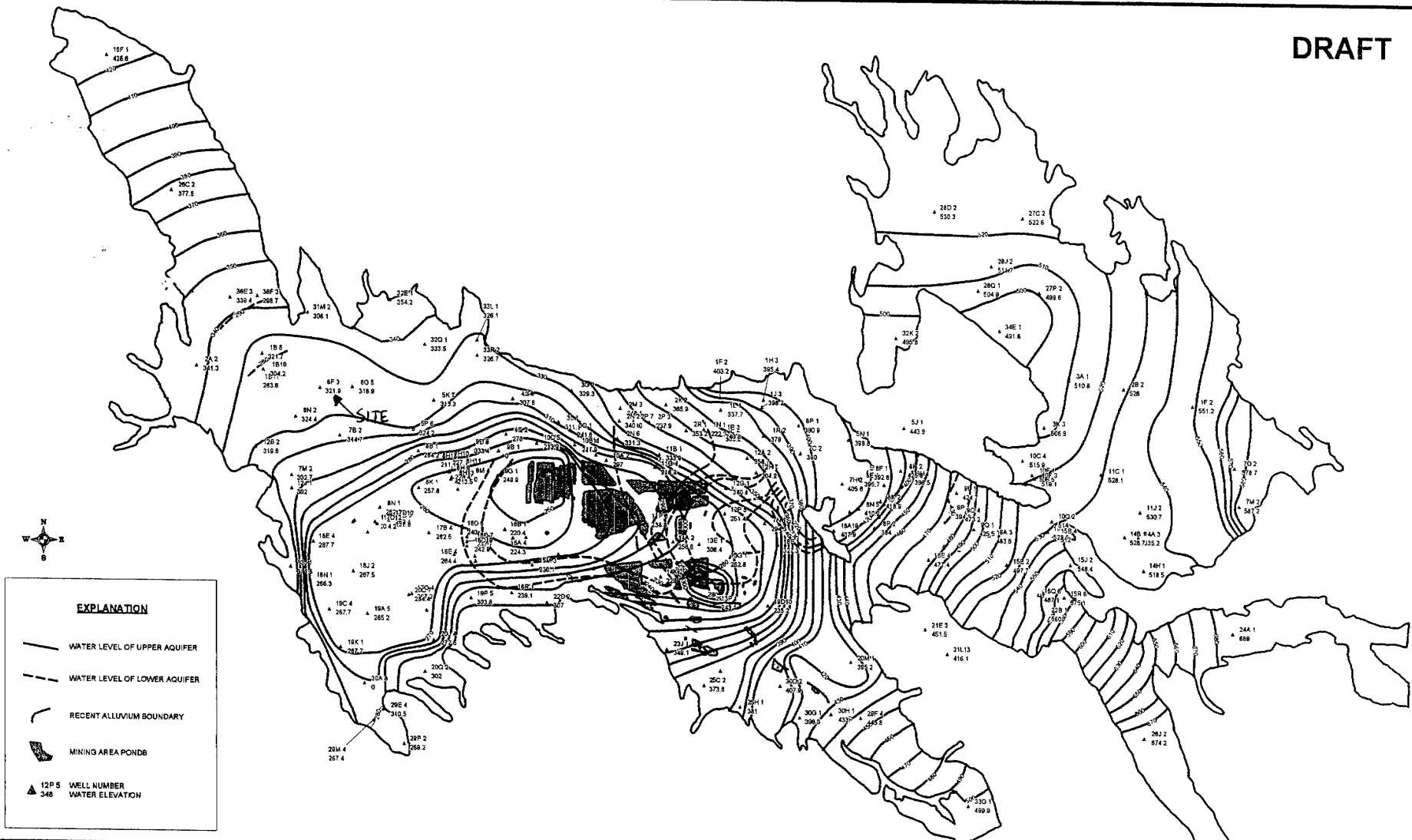
Elevation	Northing	Easting
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
					23				Same as above
			1.6		24			SC	<b>Clayey SAND</b> , medium brown, slight plasticity; 25-35% clay; very fine grained sand
					25				
		moist			26			CL	<b>Sandy CLAY</b> , light brown; 30-40% fine grained sand, moderate plasticity
					27				
			1.8		28				
					29				
					30			CL	<b>Lean CLAY</b> as above
					31				
					32				Terminate GeoProbe boring
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

## WELLGEOG MAP LEGEND

-  **Supply Well**
-  **Destroyed Supply Well**
-  **Monitoring Well**
-  **Destroyed Monitoring Well**
-  **Other Designated Well**
-  **Destroyed Other Designated Well**
-  **Injection Well**
-  **Destroyed Injection Well**
-  **Abandoned or Unlocatable Well**
-  **Unknown Use or Undesignated Well**
-  **Destroyed Unknown Use or Undesignated Well**
-  **Borehole**
-  **Stream Gaging Station**
-  **Climatological Station**
-  **Septic Tank Permit**

DRAFT



**EXPLANATION**

- WATER LEVEL OF UPPER AQUIFER
- - - WATER LEVEL OF LOWER AQUIFER
- - - RECENT ALLUVIUM BOUNDARY
- MINING AREA PONDS
- ▲ 12P5 WELL NUMBER
- ▲ 346 WATER ELEVATION

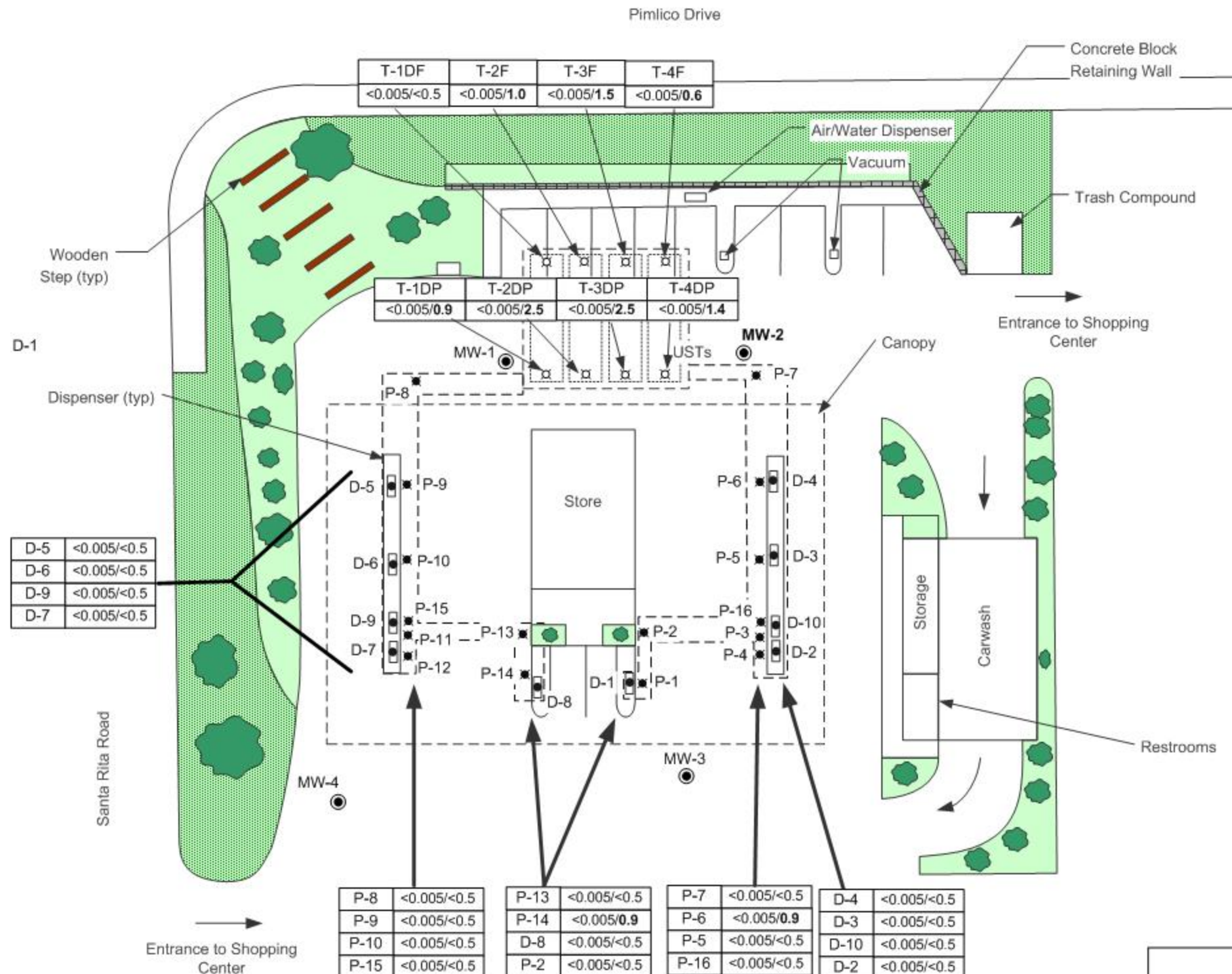


**ZONE 7 WATER AGENCY**  
 5997 PARKSIDE DRIVE, PLEASANTON CA 94588

DRAWN BY: GERALD GATES  
 DESIGNED BY: G.GATES/D.LUNN  
 CHECKED BY:  
 APPROVED BY:

WATER RESOURCES ENGINEERING  
**FALL GROUNDWATER CONTOUR MAP**  
 2001 WATER YEAR

SCALE: 1" = 6000'  
 DATE: 5 February 2002  
 FILE NO.: E:\MOW\TORG\2001\WY02\F01.WOR



SAMPLE	DEPTH (ft)
T-1DP	14
T-1DF	14
T-2DP	14
T-2DF	14
T-3DP	14
T-3DF	14
T-4DP	14
T-4DF	14
D-1	3
D-2	5
D-3	4
D-4	4
D-5	5
D-6	4.5
D-7	4.5
D-8	3.5
D-9	3.5
D-10	4
P-1	3
P-2	3
P-3	5
P-4	4.5
P-5	55.5
P-6	6.05
P-7	6.5
P-8	7.5
P-9	7
P-10	5.5
P-11	5.5
P-12	5
P-13	4
P-14	3.5
P-15	5.5
P-16	5

D-5	<0.005/<0.5
D-6	<0.005/<0.5
D-9	<0.005/<0.5
D-7	<0.005/<0.5

P-8	<0.005/<0.5
P-9	<0.005/<0.5
P-10	<0.005/<0.5
P-15	<0.005/<0.5
P-11	<0.005/<0.5
P-12	<0.005/<0.5

P-13	<0.005/<0.5
P-14	<0.005/0.9
D-8	<0.005/<0.5
P-2	<0.005/<0.5
P-1	<0.005/<0.5
D-1	<0.005/<0.5

P-7	<0.005/<0.5
P-6	<0.005/0.9
P-5	<0.005/<0.5
P-16	<0.005/<0.5
P-3	<0.005/<0.5
P-4	<0.005/<0.5

D-4	<0.005/<0.5
D-3	<0.005/<0.5
D-10	<0.005/<0.5
D-2	<0.005/<0.5

**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- T-2F α **TANK PIT SOIL SAMPLE LOCATION AND DESIGNATION**
- P-12 ■ **PRODUCT LINE SOIL SAMPLE LOCATION AND DESIGNATION**
- D-1 ● **DISPENSER SOIL SAMPLE LOCATION AND DESIGNATION**

T-4DP	<b>SAMPLE ID</b>
<0.005/1.4	<b>BENZENE/MTBE CONCENTRATIONS (MG/KG)</b>

- PLANTER**
- GRASS**
- SHRUB**

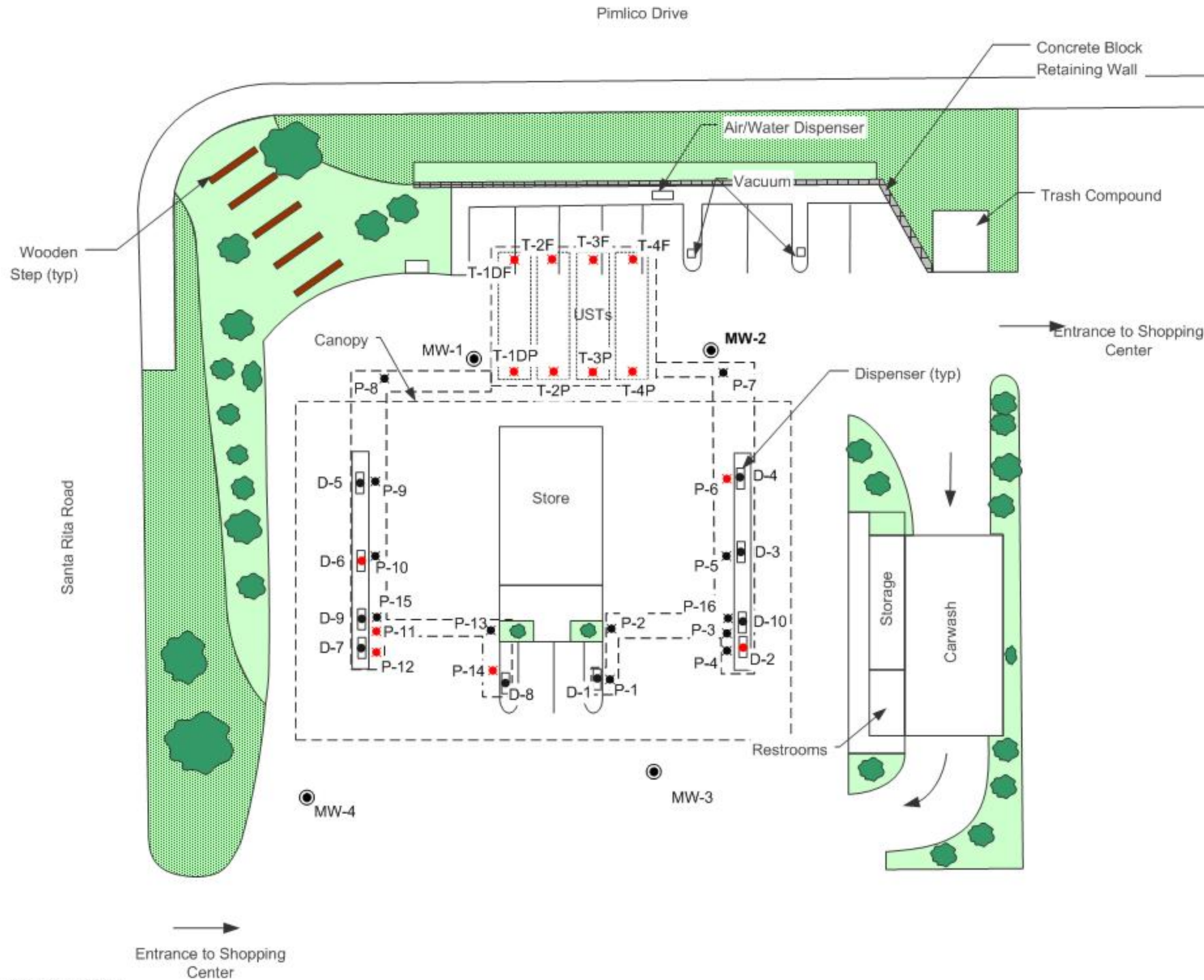


**TANK PULL SAMPLE CONCENTRATIONS MAP**  
NOVEMBER 2002

SHELL BRANDED SERVICE STATION  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 08/04/05
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY





**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- T-2F ✕ **TANK PIT SOIL SAMPLE LOCATION AND DESIGNATION**
- P-12 ✖ **PRODUCT LINE SOIL SAMPLE LOCATION AND DESIGNATION**
- D-1 ● **DISPENSER SOIL SAMPLE LOCATION AND DESIGNATION**
- **SOIL SAMPLE WITH PETROLEUM HYDROCARBON AND/OR FUEL OXYGENATE DETECTIONS**
- **PLANTER**
- **GRASS**



<b>KHM</b> ENVIRONMENTAL MANAGEMENT, INC.	<b>SOIL SAMPLING LOCATION MAP</b>	
	<b>Shell-branded Service Station</b> 6750 Santa Rita Road Pleasanton, California	
	DATE 12/18/02	PROJECT C85-6750 Santa Rita - PP

Pimlico Drive

North

Santa Rita Road

Nearest LUFT site 2,100 ft.: East Bay BMW

Domestic Well 1870 feet Well 3S/1E 5R1

Entrance to Shopping Center

Water Supply Well 3,000 feet Zone 7 Water Agency Stoneridge Well 01

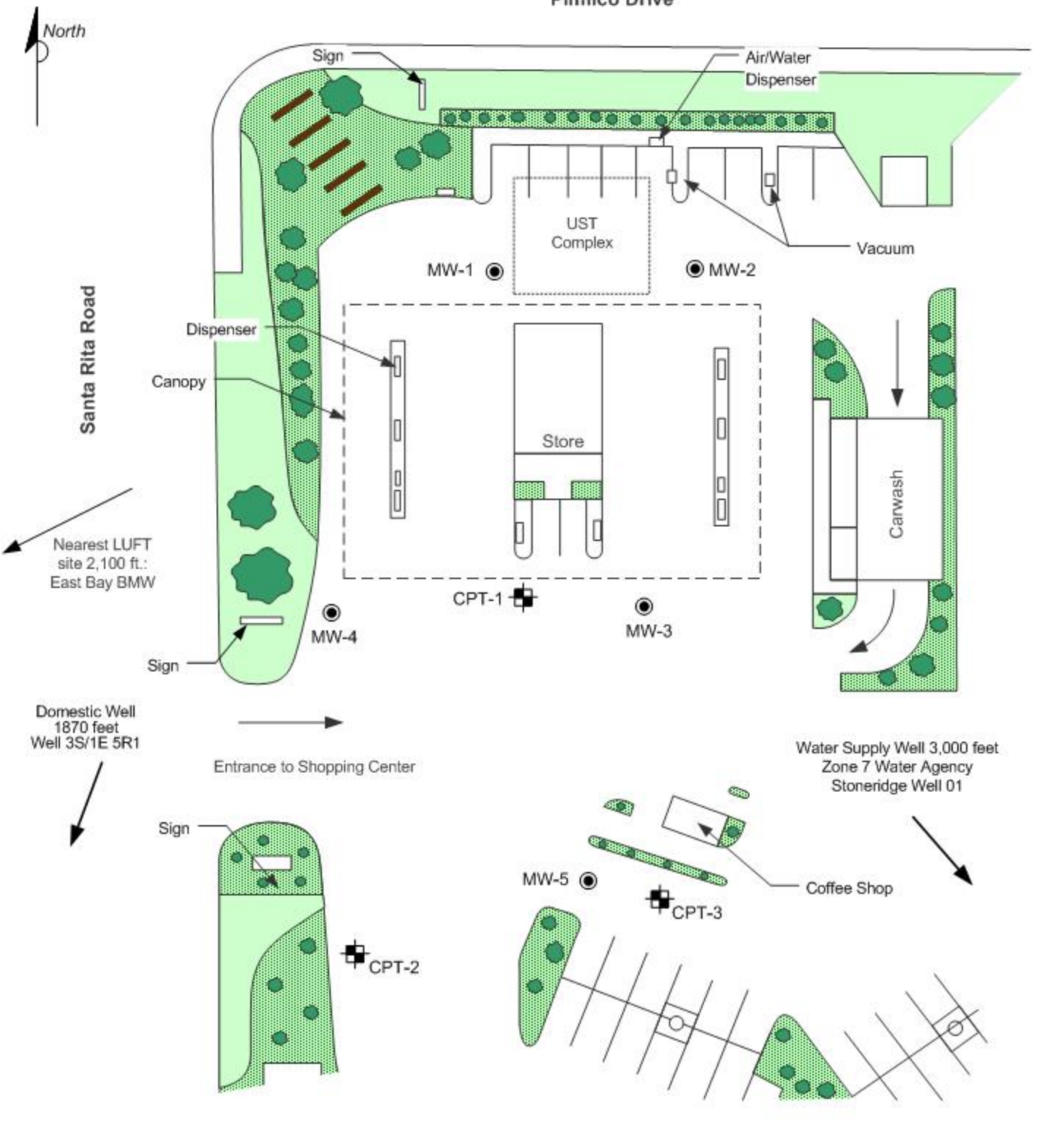
**LEGEND**

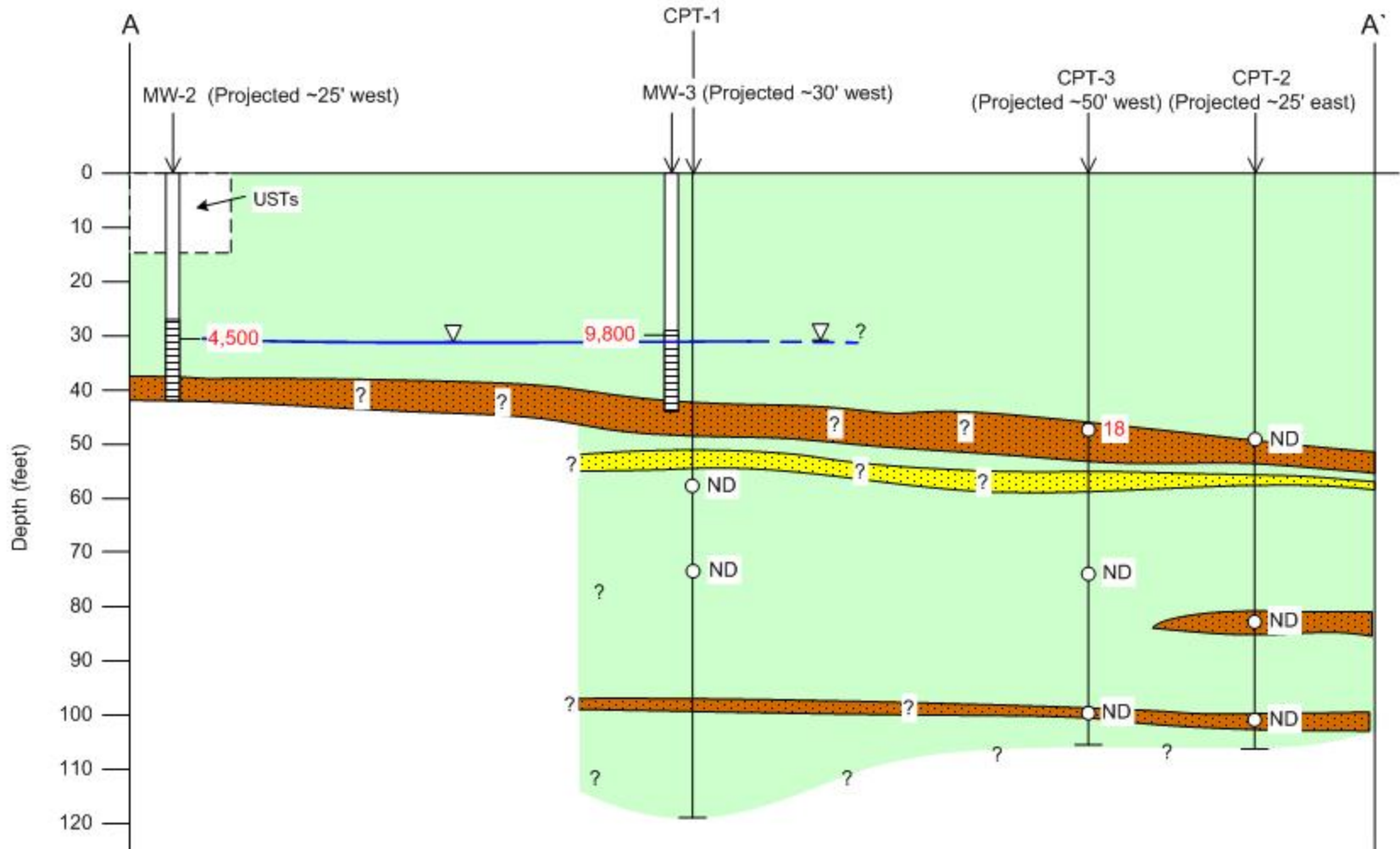
- MW-1 ● **GROUNDWATER MONITORING WELL**
- CPT-1 ⊕ **CPT BORING**



**SITE MAP**  
**SHELL-BRANDED SERVICE STATION**  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 08/04/05
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY





**LEGEND**

- GROUNDWATER MONITORING WELL**
- WELL SCREEN INTERVAL**
- CPT BORING**
- HYDROPUNCH WATER SAMPLE**
- MTBE CONCENTRATION (UG/L)**
- NOT DETECTED AT LABORATORY REPORTING LIMIT**
- WATER TABLE, 1/6/04**

- SILTY AND CLAYEY SOILS**
- SANDS AND SILTY SANDS**
- SILTY SANDS AND SANDY SILTS**

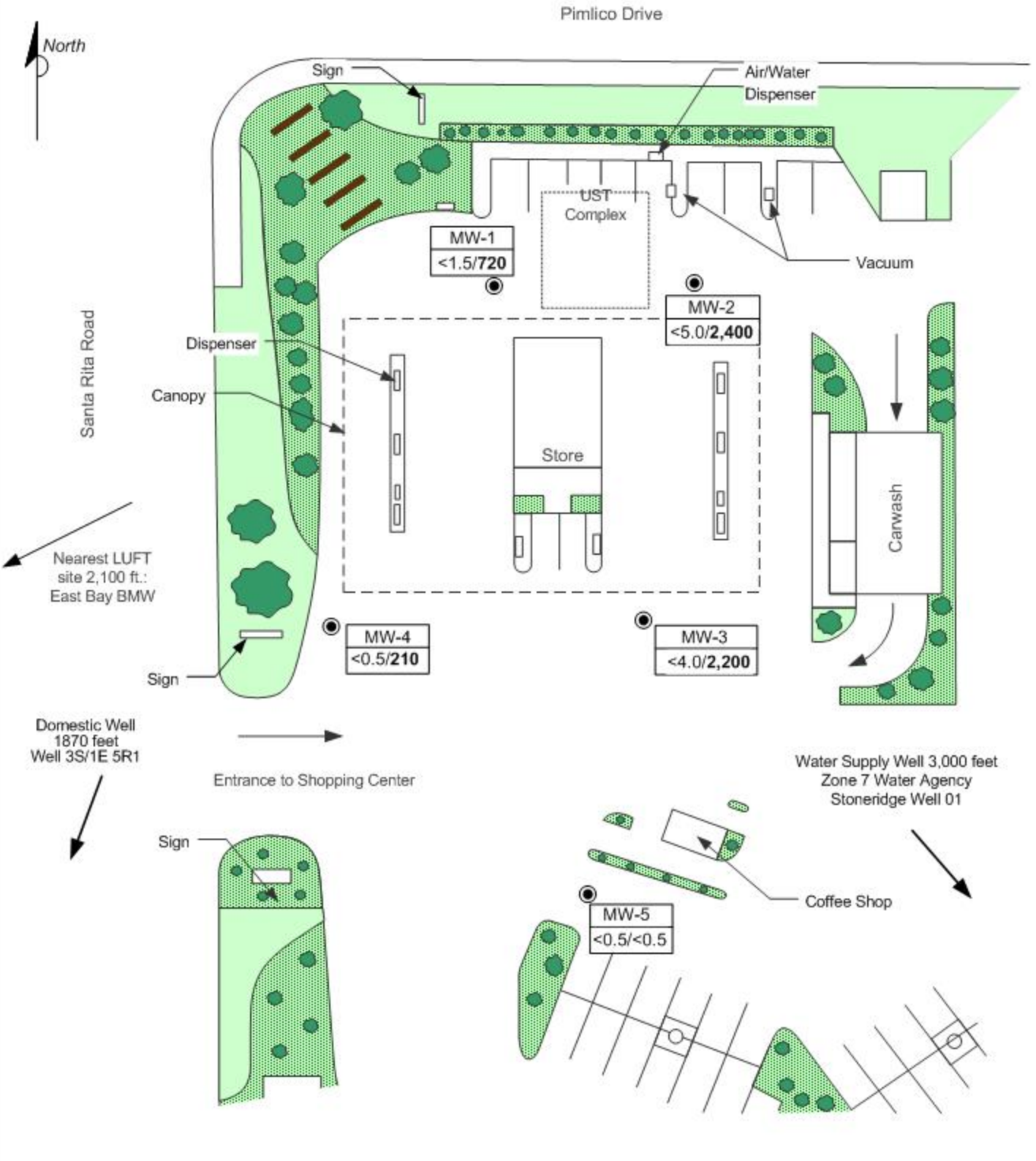


**FIGURE 3**  
**GEOLOGIC CROSS-SECTION**  
**SHELL-BRANDED SERVICE STATION**  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY V. F. 2/17/04
FILE NO. SJ67-50S-1.2004	PREPARED BY V. F.
REVISION NO. 1	REVIEWED BY

**Delta**  
Environmental  
Consultants, Inc.





**LEGEND**



**GROUNDWATER MONITORING WELL**

MW-5
<0.5/<0.5

**BENZENE/MTBE CONCENTRATIONS (UG/L)**



APPROX. SCALE

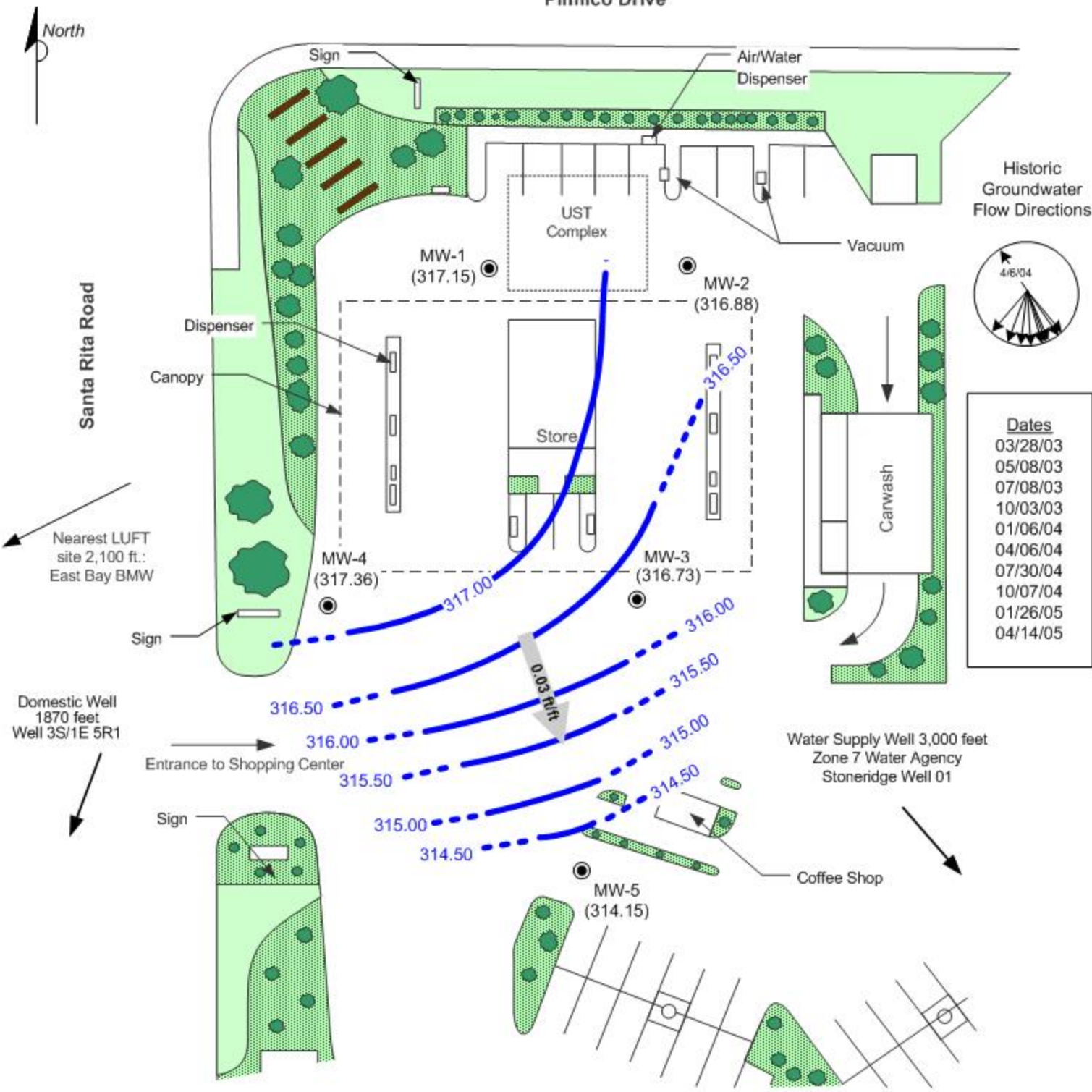
**FIGURE 3**  
**BENZENE & MTBE CONCENTRATION MAP**  
 APRIL 14, 2005  
**SHELL-BRANDED SERVICE STATION**  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY J.L.
FILE NO. SJ67-50S-1.2005	PREPARED BY J.L.
REVISION NO. 1	REVIEWED BY



Pimlico Drive

North



Historic Groundwater Flow Directions



Dates	
03/28/03	
05/08/03	
07/08/03	
10/03/03	
01/06/04	
04/06/04	
07/30/04	
10/07/04	
01/26/05	
04/14/05	

Nearest LUFT site 2,100 ft.: East Bay BMW

Domestic Well 1870 feet Well 3S/1E 5R1

Water Supply Well 3,000 feet Zone 7 Water Agency Stoneridge Well 01

**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- (314.15) **GROUNDWATER ELEVATION (FEET-MSL), 7/29/05**
- 315.00 — **GROUNDWATER ELEVATION CONTOUR**
- 0.02 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**



GROUNDWATER ELEVATION CONTOUR MAP,  
JULY 29, 2005  
SHELL-BRANDED SERVICE STATION  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 08/04/05
FILE NO. SJ67-50S-1.2005	PREPARED BY J.L.
REVISION NO. 1	REVIEWED BY



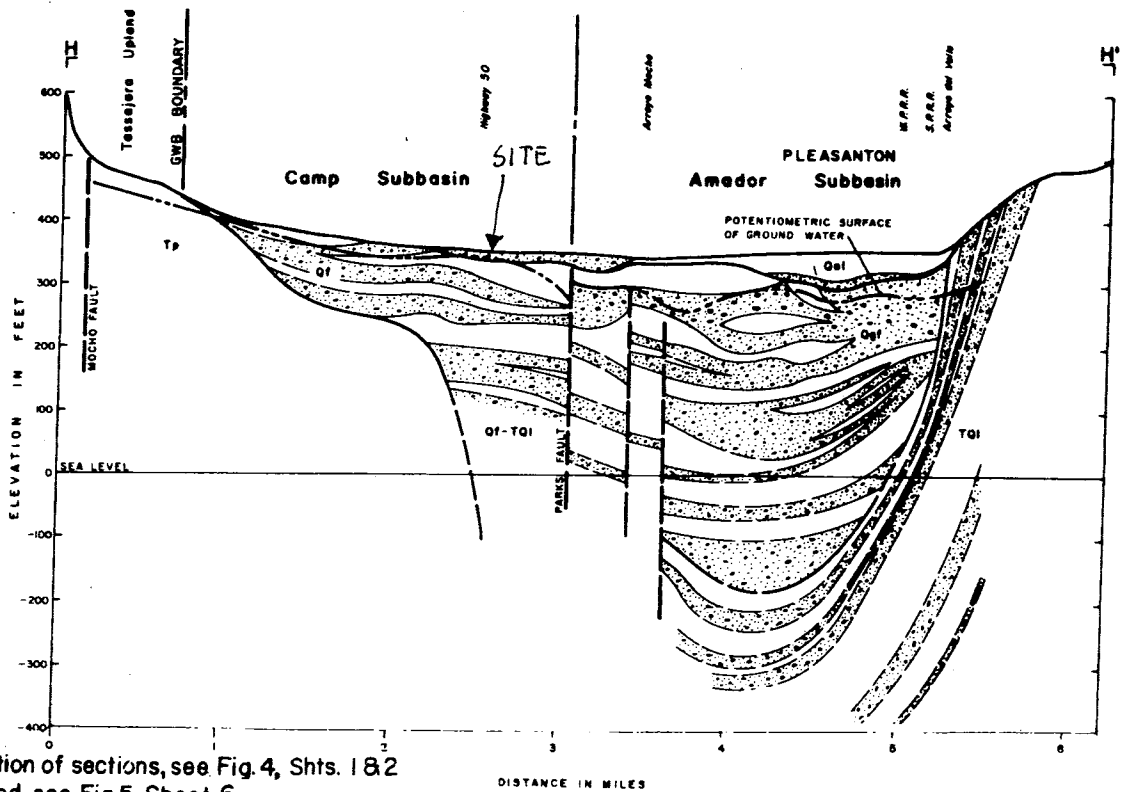
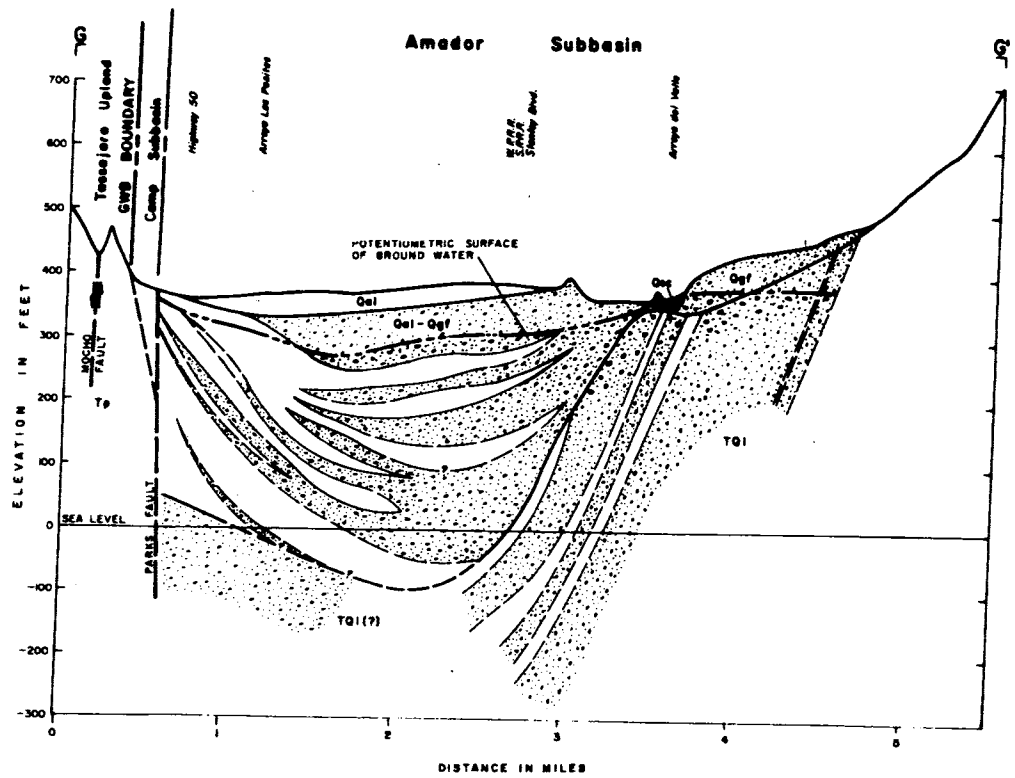
**REGULATORY HISTORY****AVIS RENT A CAR SYSTEM INC. (PLEASANTON)**3956 OLD SANTA RITA RD.  
PLEASANTON , CA 94588**CASE STATUS:** OPEN

RETURN TO REPORT MAIN MENU

**REGIONAL BOARD**SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**  
**CONTACT:** BETTY GRAHAM - (510) 622-2300**LOCAL AGENCY (LEAD AGENCY) - CASE #: R00002825**  
ALAMEDA COUNTY LOP - **(RWS)****REGULATORY HISTORY**

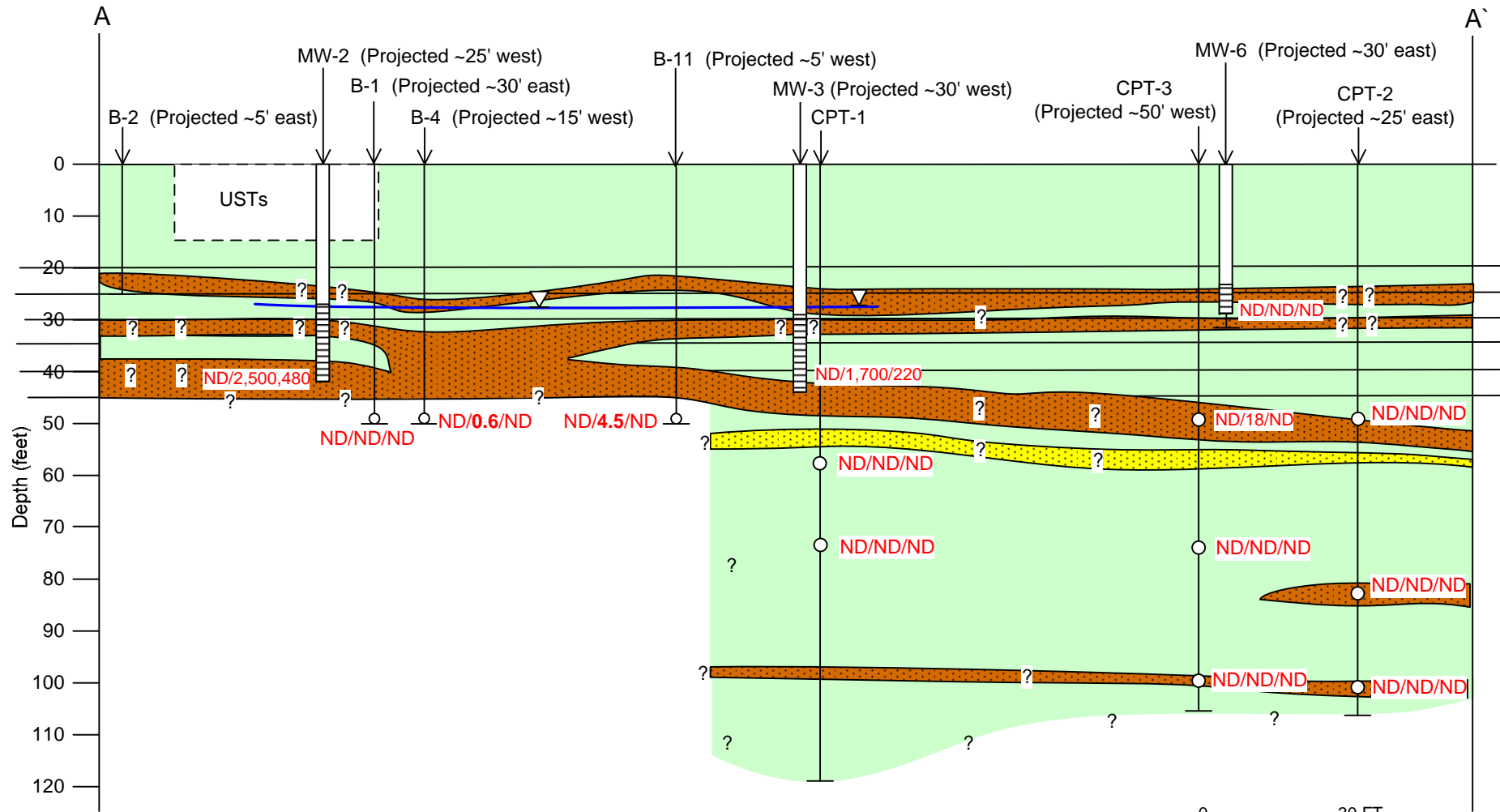
<b>BEGIN DATE</b>	<b>STATUS</b>
11/21/2003	* Leak Reported
9/28/2004	1 - Leak Confirmation

[Geotracker Home](#) | [Site/Facility Finder](#) | [Case Finder](#) | [MTBE/Case Reports](#)











For location of sections, see Fig. 4, Shts. 1 & 2  
 For legend, see Fig. 5, Sheet 6

# GEOLOGIC SECTIONS - LIVERMORE VALLEY



**LEGEND**

-  **GROUNDWATER MONITORING WELL**
-  **WELL SCREEN INTERVAL**
-  **CPT BORING**
-  **HYDROPUNCH WATER SAMPLE**
- ND/2,500/400 **TPH-G/MTBE/TBA CONCENTRATIONS (UG/L)**
- ND NOT DETECTED AT LABORATORY REPORTING LIMIT**
-  **WATER TABLE, 10/20/04**

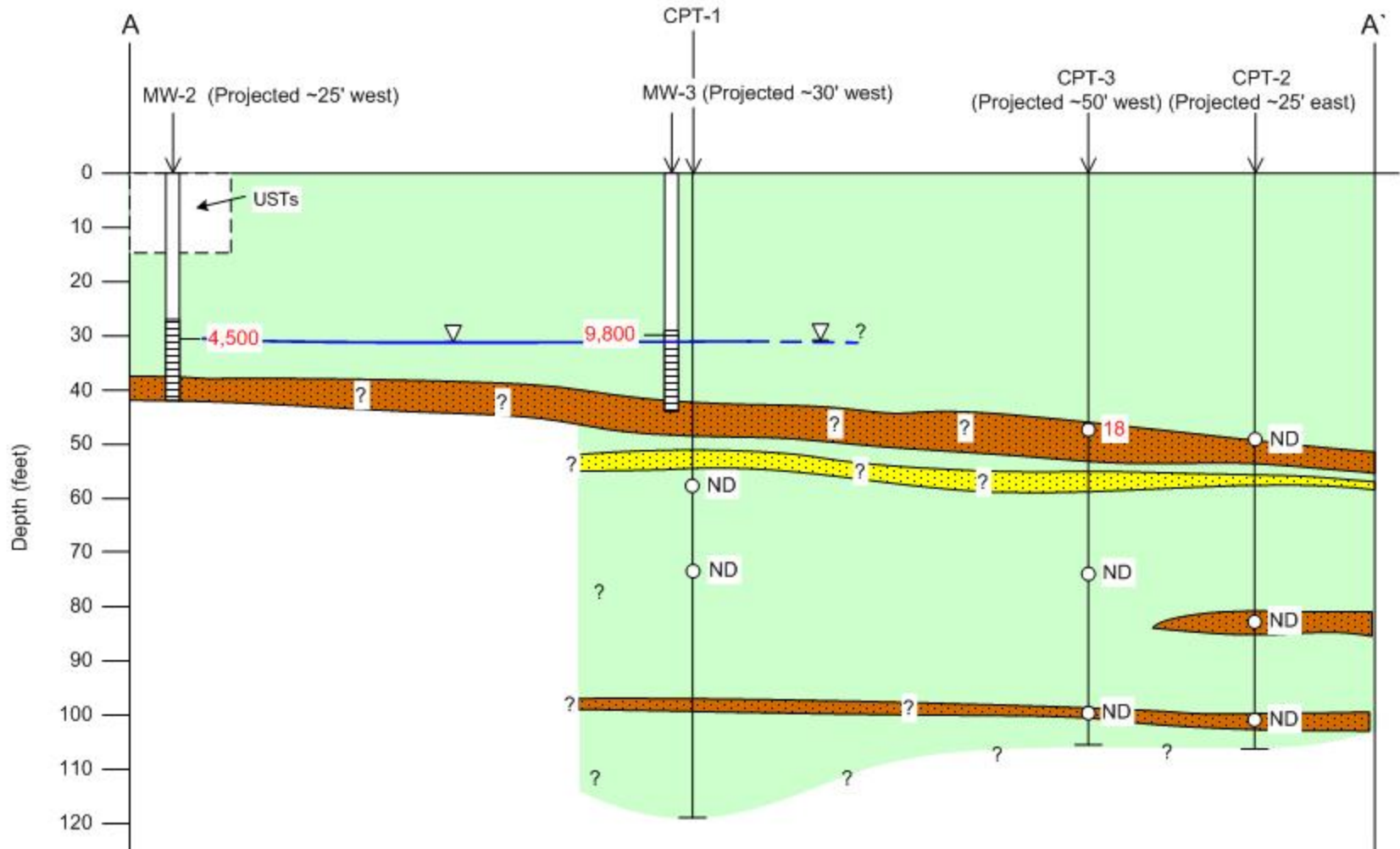
-  **SILTY AND CLAYEY SOILS**
-  **SANDS AND SILTY/CLAYEY SANDS**
-  **SILTY SANDS AND SANDY SILTS**



**FIGURE 3**  
**REVISED GEOLOGIC CROSS-SECTION A-A'**  
 SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 12/16/05
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 3	REVIEWED BY





**LEGEND**

- GROUNDWATER MONITORING WELL**
- WELL SCREEN INTERVAL**
- CPT BORING**
- HYDROPUNCH WATER SAMPLE**
- MTBE CONCENTRATION (UG/L)**
- NOT DETECTED AT LABORATORY REPORTING LIMIT**
- WATER TABLE, 1/6/04**

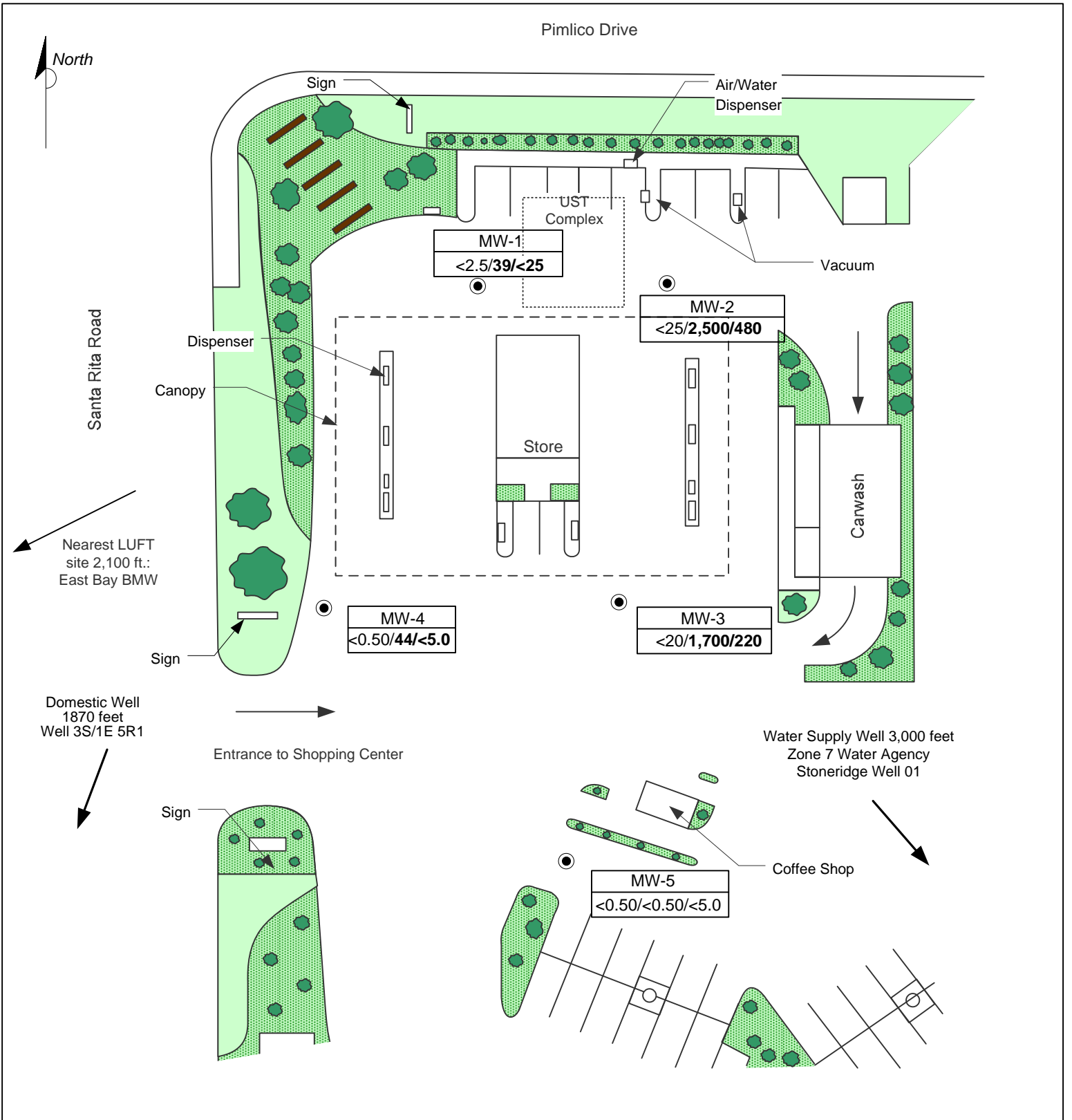
- SILTY AND CLAYEY SOILS**
- SANDS AND SILTY SANDS**
- SILTY SANDS AND SANDY SILTS**



**FIGURE 3**  
**GEOLOGIC CROSS-SECTION**  
**SHELL-BRANDED SERVICE STATION**  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY V. F. 2/17/04
FILE NO. SJ67-50S-1.2004	PREPARED BY V. F.
REVISION NO. 1	REVIEWED BY

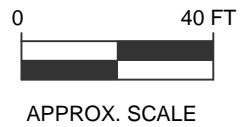
**Delta**  
Environmental  
Consultants, Inc.



**LEGEND**

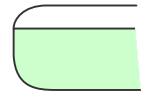
- **GROUNDWATER MONITORING WELL**
- WELL ID**
- BENZENE/MTBE/TBA CONCENTRATIONS (UG/L) – 10/20/05**

MW-5
<0.50/<0.50/<5.0



**FIGURE 3**  
**BENZENE, MTBE AND TBA CONCENTRATION MAP**  
 OCTOBER 20, 2005  
**SHELL-BRANDED SERVICE STATION**  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 12/08/05.
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 2	REVIEWED BY



**LEGEND**

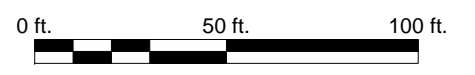
B-1 ● **BORING**

CPT-1 ⊕ **CPT BORINGS**

MW-1 ● **GROUNDWATER MONITORING WELL**

(18 ug/l) **MTBE CONCENTRATION IN 50-FOOT GROUNDWATER ZONE (MONITORING WELLS SAMPLED ON 1/6/04) (HYDROPUNCH SAMPLES COLLECTED ON 12/18-19/03)**

A A' **LINE OF GEOLOGIC CROSS-SECTION**

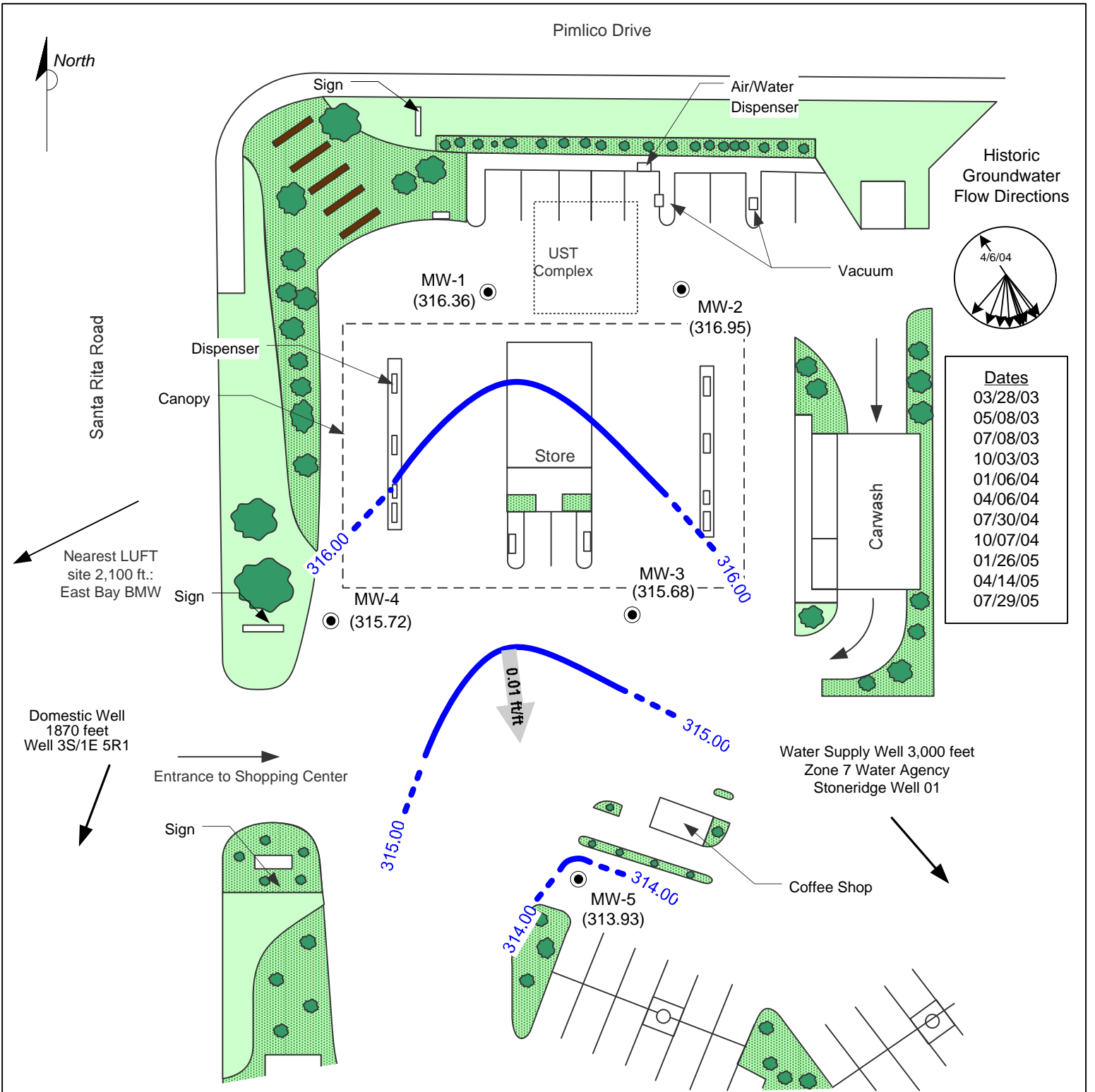


**FIGURE 2**  
**SITE AREA MAP**

**SHELL BRANDED SERVICE STATION**  
6750 Santa Rita Road  
Pleasanton, California

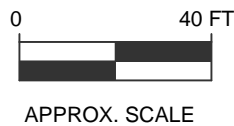
PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 12/21/05	
FILE NO. SJ67-50S-1.2005	PREPARED BY HB	
REVISION NO. 1	REVIEWED BY DA	





**LEGEND**

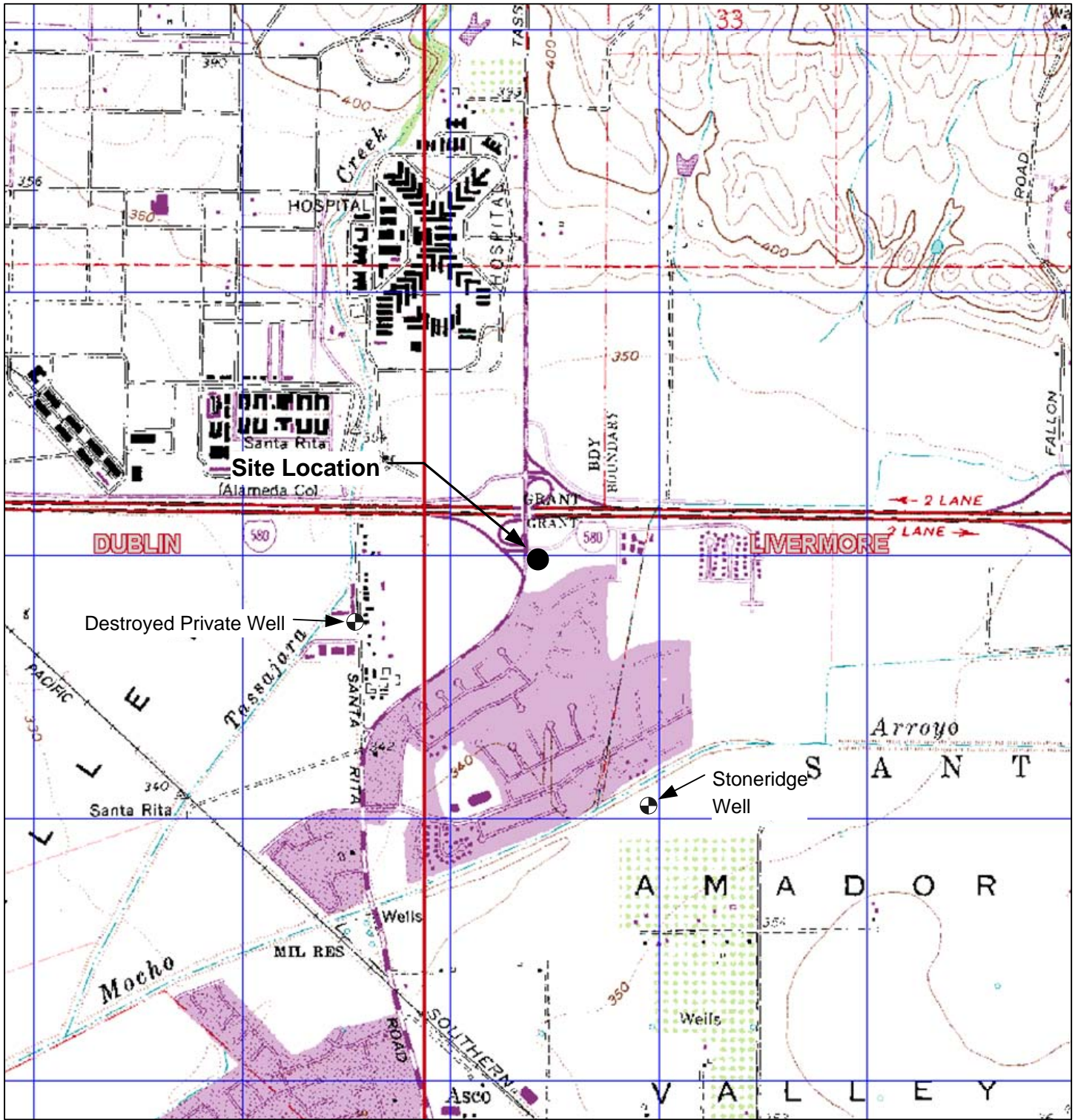
- MW-1 ● **GROUNDWATER MONITORING WELL**
- (313.93) **GROUNDWATER ELEVATION (FEET-MSL), 10/20/05**
- 316.00 — **GROUNDWATER ELEVATION CONTOUR**
- 0.01 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**



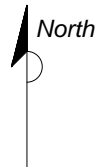
**FIGURE 2**  
**GROUNDWATER ELEVATION CONTOUR MAP,**  
**OCTOBER 20, 2005**  
**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 12/08/05
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY

**Delta**  
Environmental  
Consultants, Inc.



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



QUADRANGLE LOCATION

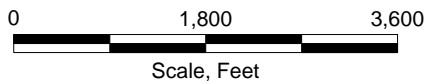
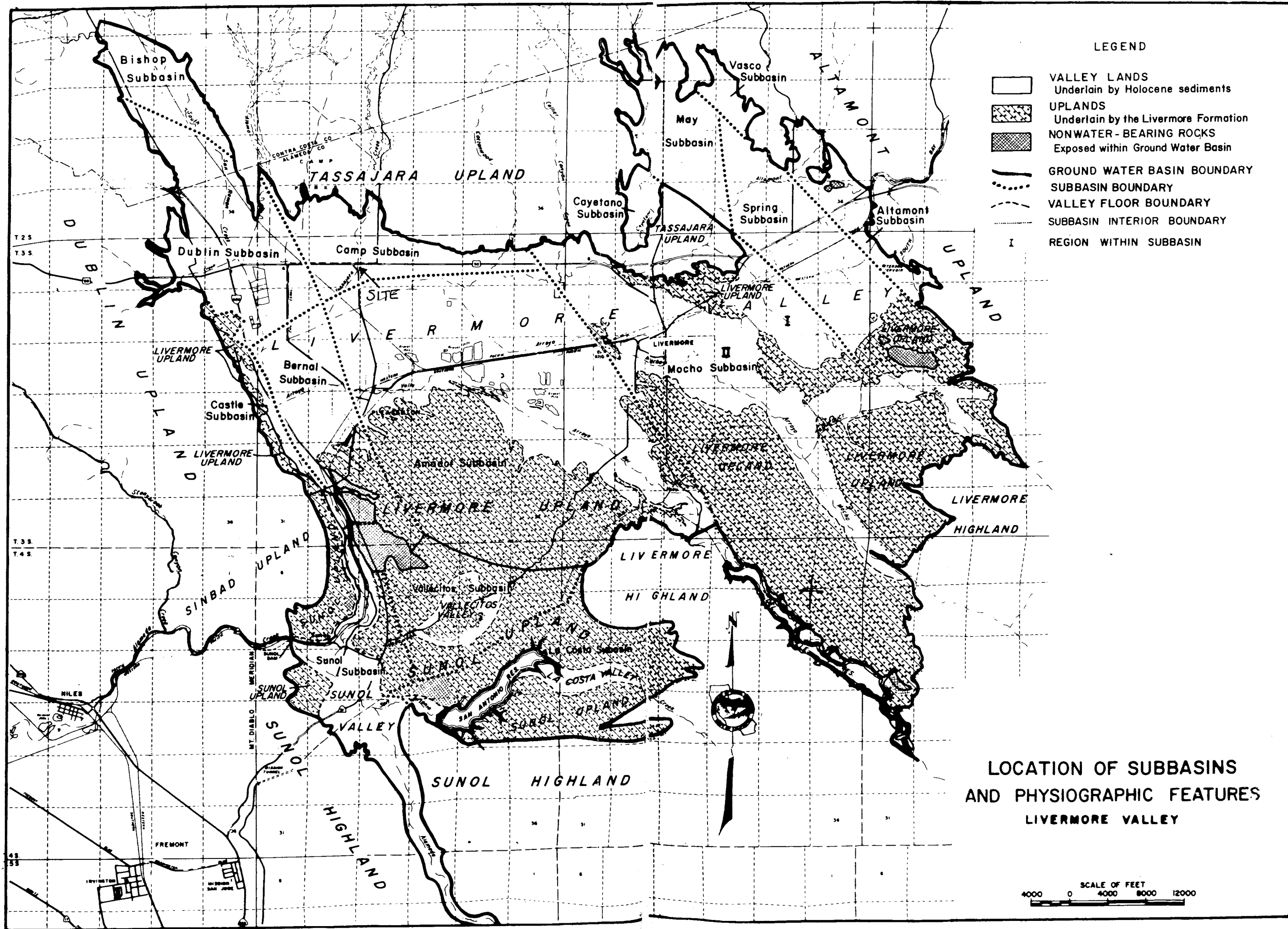
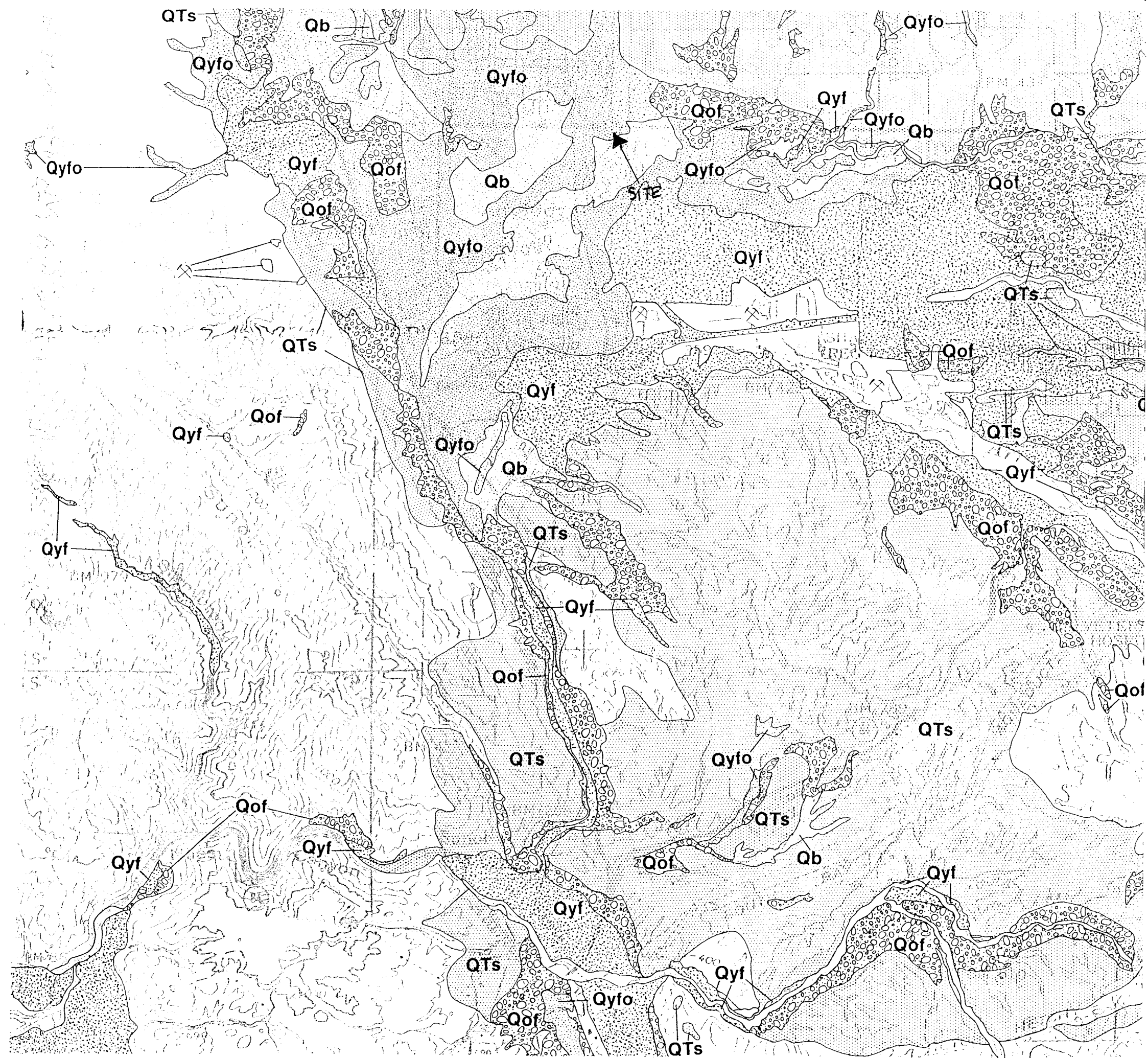


FIGURE 1  
 SITE LOCATION AND WELL SURVEY MAP  
 SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF 12/04/03
FILE NO. SJ67-50S-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY



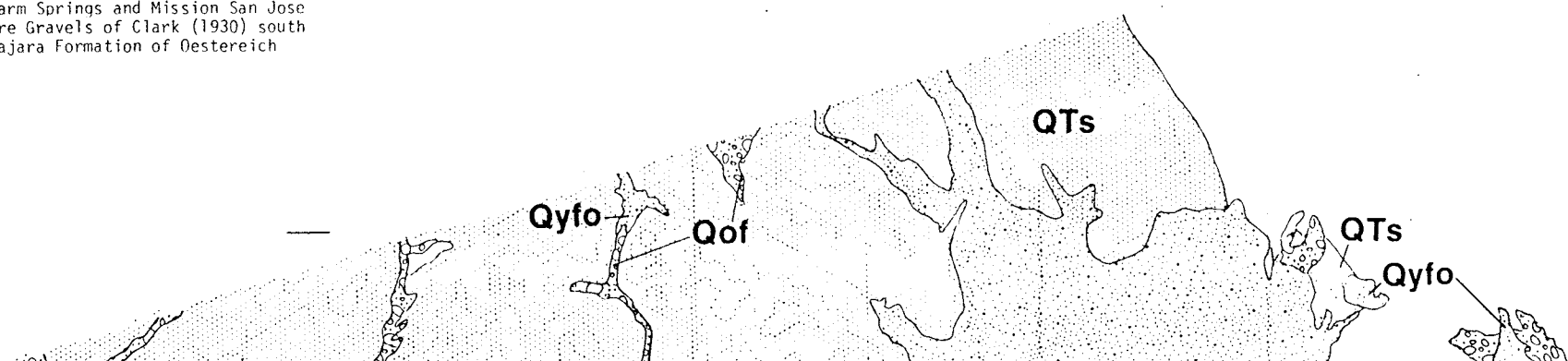
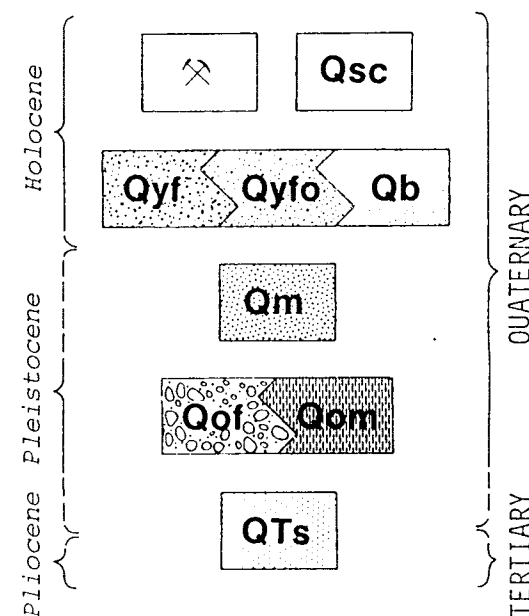


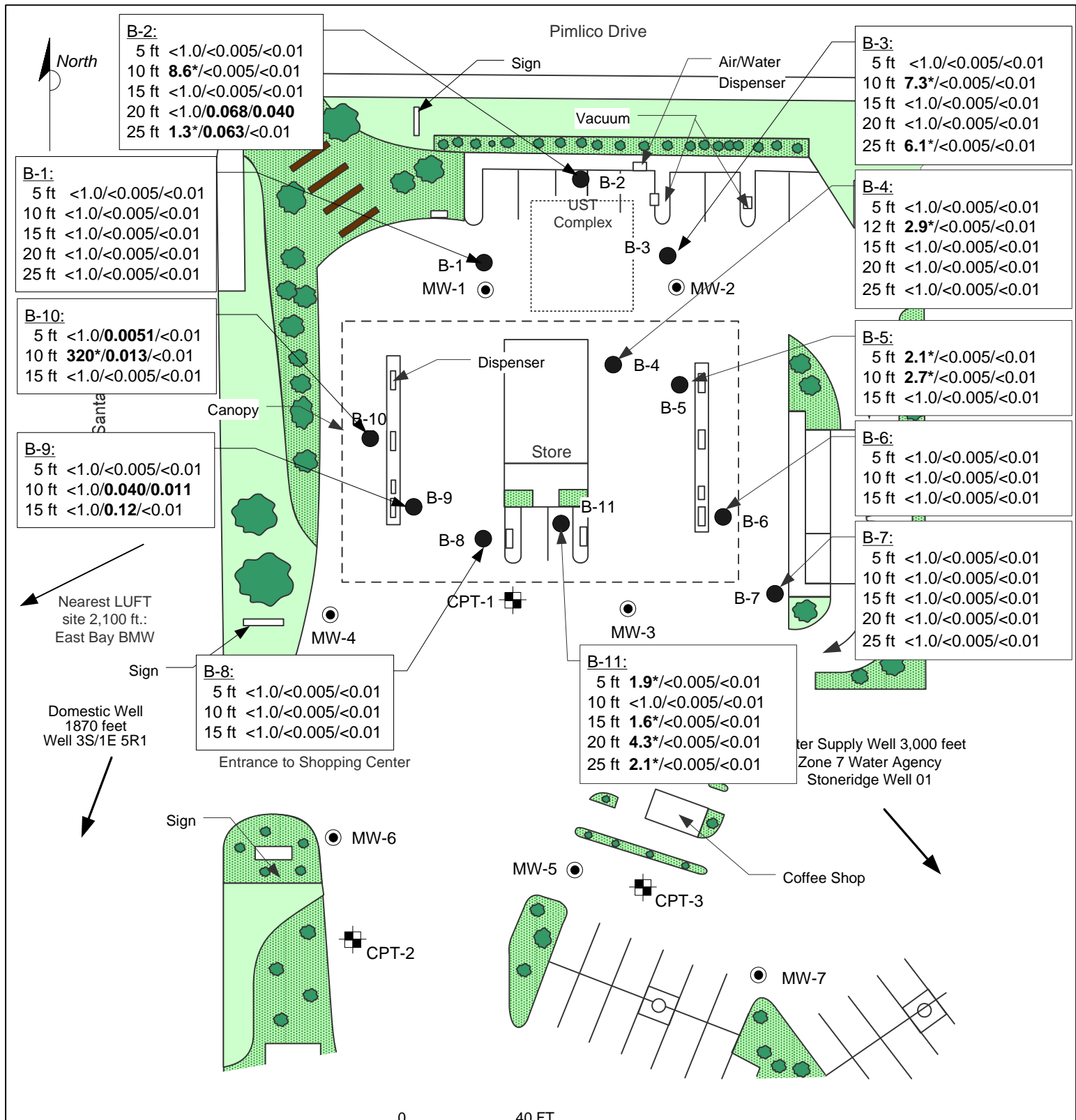


## DESCRIPTION OF UNITS

- ^ GRAVEL PITS
- Qsc STREAM CHANNEL MATERIAL -- Mainly loose, well-sorted sand and gravel. This material is presently being transported during periods of normal runoff.
- Qyf YOUNGER ALLUVIAL FAN DEPOSITS -- Includes colluvial fill in narrow canyons. Unconsolidated, moderately sorted, permeable fine sand and silt, with gravel becoming more abundant toward fan heads and within canyons. Forms well-drained levees which grade headward to stream deposits on terraces cut in Qof. Thickness varies from as much as 50 feet at fan heads and in canyons to about 20 feet where Qyf inter-fingers with Qyfo and Qb at the outer margins of fans. Locally contains aboriginal artifacts and skeletal remains.
- Qyfo YOUNGER FLUVIAL DEPOSITS -- Unconsolidated deposits of fine, but variable grain size--mainly fine sand, silt, and silty clay; intermediate in character and lateral extent between Qb and Qyf. Forms levees and overbank deposits along the San Francisco Bay margin and in Livermore Valley, as well as valley fill in some open canyons. May be in part windblown in the southwestern part of the county. Generally less than 15 feet thick. Overbank deposits locally contain minor amounts of organic matter including fresh-water gastropods and pelecypods.
- Qb INTERFLUVIAL BASIN DEPOSITS -- Plastic, poorly sorted, organic-rich clay and silty clay in poorly drained areas marginal to the bay and in Livermore Valley. Interfingers with Qyf, Qyfo, and recent mud of San Francisco Bay. Generally less than 10 feet thick. Locally contains fresh-water gastropods and pelecypods.
- Qm MERRITT SAND -- Loose, fine-grained, very well sorted beach and wind-blown sand at Alameda Island and adjacent bay margin near Oakland (Lawson, 1914).
- Qof OLDER ALLUVIAL FAN DEPOSITS -- Includes stream terrace deposits in some narrow canyons and on the margins of Livermore Valley. Weathered, weakly consolidated, poorly sorted silt sand and gravel (generally fine grained in northeastern Livermore Valley owing to derivation from friable sandstone bedrock). Less permeable and more poorly drained than younger alluvial fan deposits. Maximum thickness unknown but at least several hundred feet thick near bay margin. Headward portions overlapped by younger deposits on southern bay margin and incised by channels that are partially filled with younger deposits on northern bay margin and in Livermore Valley. Locally contains concentrations of continental vertebrate and invertebrate fossils. Includes the San Antonio Formation of Lawson (1914).
- Qom OLDER MUD -- Dark, plastic, semiconsolidated, organic-rich clay and silty clay. Interfingers with Qof. Maximum thickness is unknown but greater than 50 feet near bay margin. Underlies recent mud of San Francisco Bay and locally underlies younger alluvial deposits on bay margin. Locally contains continental vertebrate fossils, fresh-water invertebrate fossils, and plant remains.
- QTs DEFORMED OLDER SEDIMENTARY DEPOSITS -- Poorly consolidated to semiconsolidated alluvial deposits of gravel, sand, silt and clay with subordinate fine-grained lacustrine deposits; locally tuffaceous; locally contains abundant remains of continental vertebrate and invertebrate fossils. Maximum thickness unknown but over 5,000 feet in the hills south of Livermore Valley. Includes the Irvington Gravels of Savage (1951) in the Warm Springs and Mission San Jose districts of Fremont, the Livermore Gravels of Clark (1930) south of Livermore Valley, and the Tassajara Formation of Oestereich (1958) north of Livermore Valley.

## CORRELATION OF UNITS





**B-2:**  
 5 ft <1.0/<0.005/<0.01  
 10 ft **8.6\***/**<0.005/<0.01**  
 15 ft <1.0/<0.005/<0.01  
 20 ft <1.0/**0.068/0.040**  
 25 ft **1.3\***/**0.063/<0.01**

**B-3:**  
 5 ft <1.0/<0.005/<0.01  
 10 ft **7.3\***/**<0.005/<0.01**  
 15 ft <1.0/<0.005/<0.01  
 20 ft <1.0/<0.005/<0.01  
 25 ft **6.1\***/**<0.005/<0.01**

**B-1:**  
 5 ft <1.0/<0.005/<0.01  
 10 ft <1.0/<0.005/<0.01  
 15 ft <1.0/<0.005/<0.01  
 20 ft <1.0/<0.005/<0.01  
 25 ft <1.0/<0.005/<0.01

**B-4:**  
 5 ft <1.0/<0.005/<0.01  
 12 ft **2.9\***/**<0.005/<0.01**  
 15 ft <1.0/<0.005/<0.01  
 20 ft <1.0/<0.005/<0.01  
 25 ft <1.0/<0.005/<0.01

**B-10:**  
 5 ft <1.0/**0.0051**/**<0.01**  
 10 ft **320\***/**0.013/<0.01**  
 15 ft <1.0/<0.005/<0.01

**B-5:**  
 5 ft **2.1\***/**<0.005/<0.01**  
 10 ft **2.7\***/**<0.005/<0.01**  
 15 ft <1.0/<0.005/<0.01

**B-9:**  
 5 ft <1.0/<0.005/<0.01  
 10 ft <1.0/**0.040/0.011**  
 15 ft <1.0/**0.12**/**<0.01**

**B-6:**  
 5 ft <1.0/<0.005/<0.01  
 10 ft <1.0/<0.005/<0.01  
 15 ft <1.0/<0.005/<0.01

**B-8:**  
 5 ft <1.0/<0.005/<0.01  
 10 ft <1.0/<0.005/<0.01  
 15 ft <1.0/<0.005/<0.01

**B-11:**  
 5 ft **1.9\***/**<0.005/<0.01**  
 10 ft <1.0/<0.005/<0.01  
 15 ft **1.6\***/**<0.005/<0.01**  
 20 ft **4.3\***/**<0.005/<0.01**  
 25 ft **2.1\***/**<0.005/<0.01**

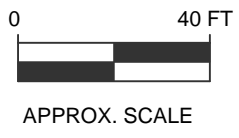
**B-7:**  
 5 ft <1.0/<0.005/<0.01  
 10 ft <1.0/<0.005/<0.01  
 15 ft <1.0/<0.005/<0.01  
 20 ft <1.0/<0.005/<0.01  
 25 ft <1.0/<0.005/<0.01

Domestic Well  
 1870 feet  
 Well 3S/1E 5R1

Water Supply Well 3,000 feet  
 Zone 7 Water Agency  
 Stoneridge Well 01

**LEGEND**

- B-1 ● **BORING LOCATION**
- MW-1 ● **GROUNDWATER MONITORING WELL**
- CPT-1 ■ **CPT BORING**
- \* **DETECTION DID NOT MATCH LABORATORY STANDARD CHROMATOGRAPHIC PATTERN**

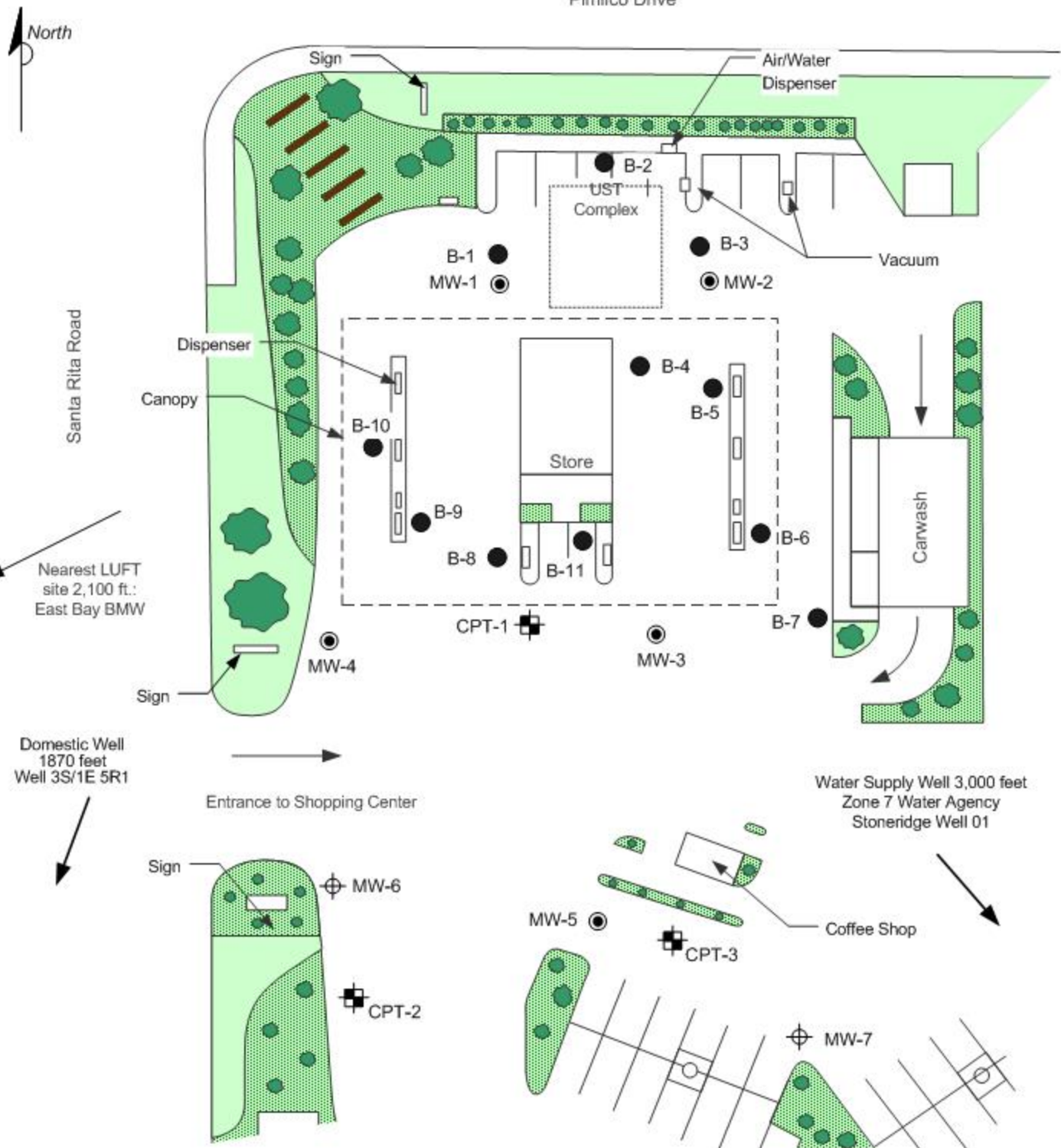


**CONCENTRATIONS OF TPH-D, MTBE, AND TBA IN VADOSE ZONE (0-25' BG)**

**SHELL-BRANDED SERVICE STATION**  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 01/13/06
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY





**LEGEND**

- B-1 ● **PROPOSED BORING LOCATION**
- MW-6 ⊕ **PROPOSED GROUNDWATER MONITORING WELL LOCATION**
- MW-1 ⊙ **GROUNDWATER MONITORING WELL**
- CPT-1 ⊞ **CPT BORING**



**BORING LOCATION MAP**  
**SHELL-BRANDED SERVICE STATION**  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 08/04/05
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY

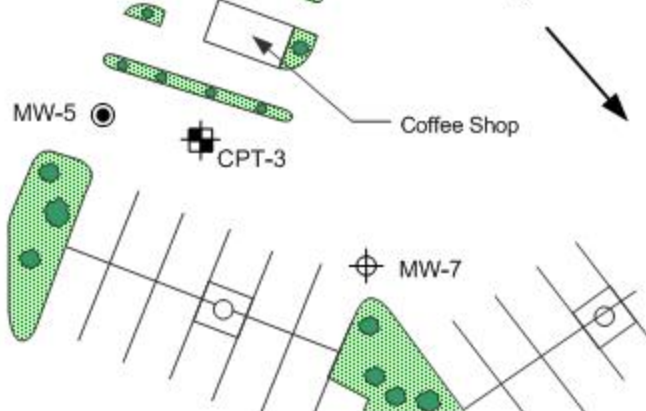
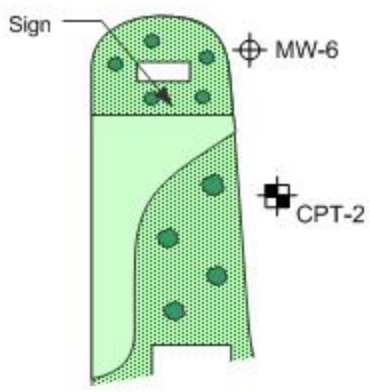


Nearest LUFT site 2,100 ft.:  
East Bay BMW

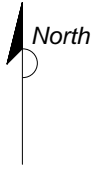
Domestic Well  
1870 feet  
Well 3S/1E 5R1

Water Supply Well 3,000 feet  
Zone 7 Water Agency  
Stoneridge Well 01

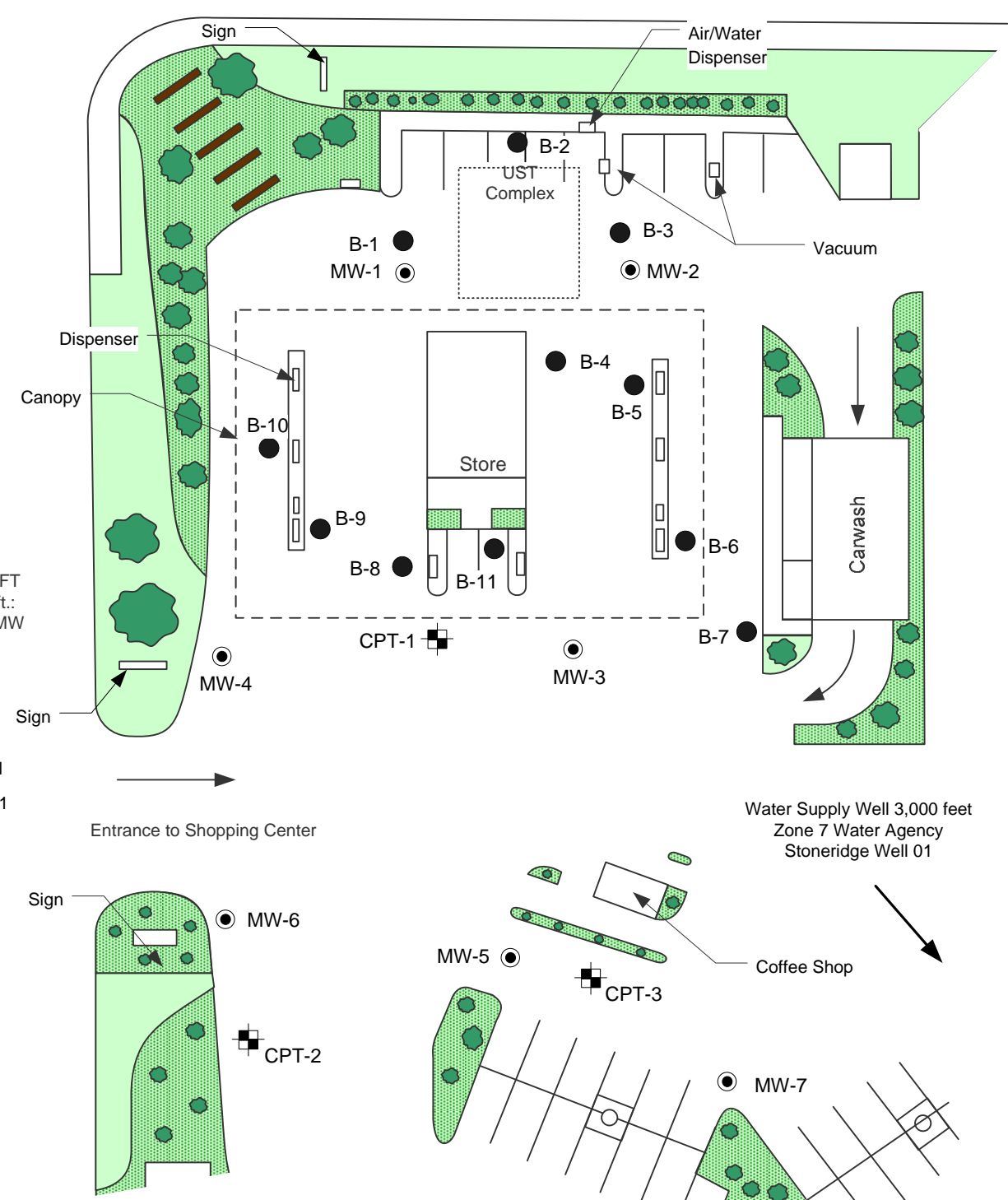
Entrance to Shopping Center



Pimlico Drive



Santa Rita Road



Nearest LUFT site 2,100 ft.: East Bay BMW

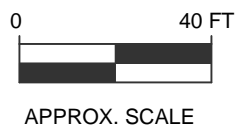
Domestic Well 1870 feet Well 3S/1E 5R1

Entrance to Shopping Center

Water Supply Well 3,000 feet Zone 7 Water Agency Stoneridge Well 01

**LEGEND**

- B-1 ● **BORING LOCATION**
- MW-1 ● **GROUNDWATER MONITORING WELL**
- CPT-1 ⊞ **CPT BORING**



**BORING LOCATION MAP**

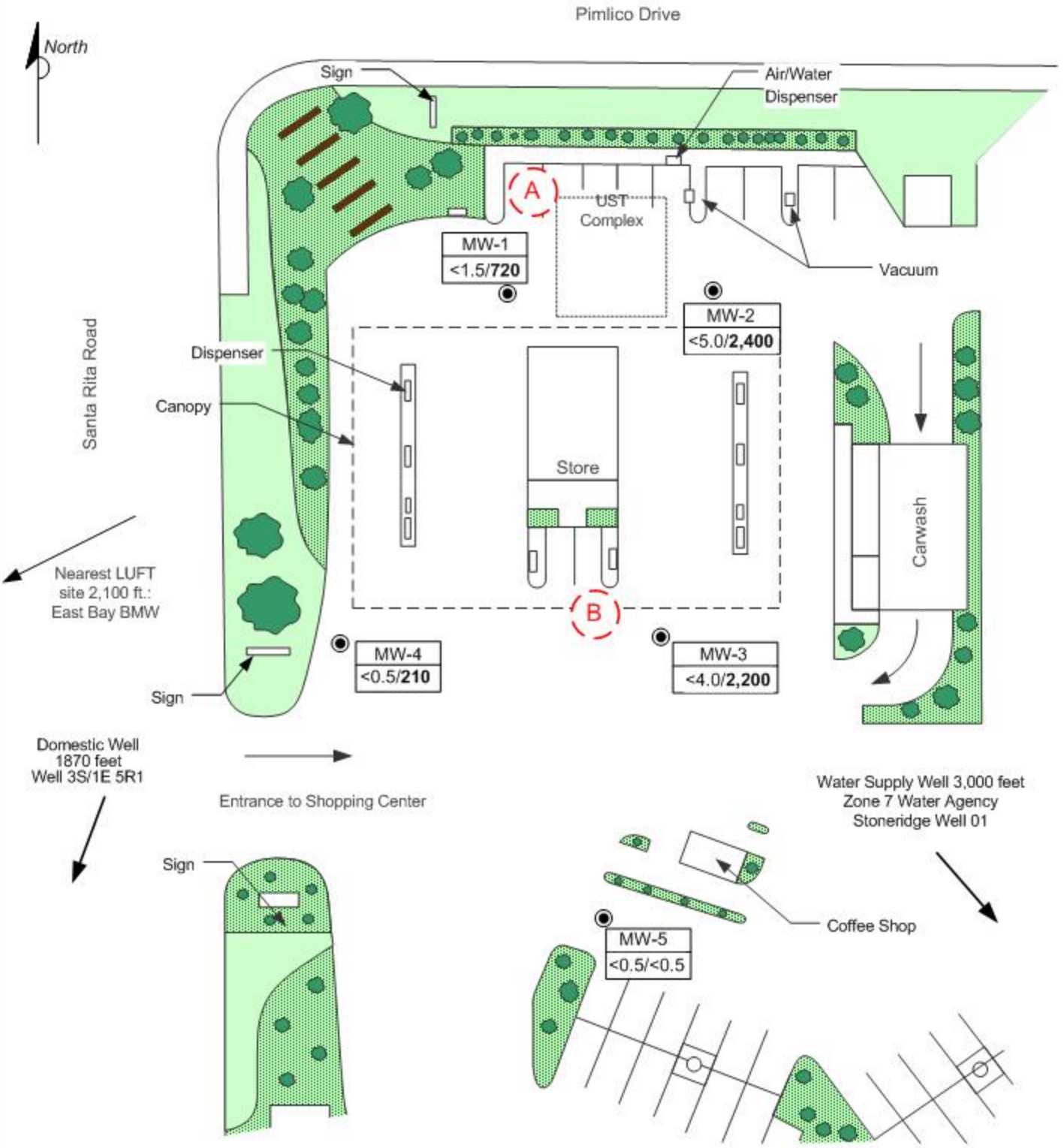
**SHELL-BRANDED SERVICE STATION**

6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 08/04/05
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY

**Delta**  
Environmental  
Consultants, Inc.





**LEGEND**

**(B)** **PROPOSED BAKER TANK LOCATION**

**●** **GROUNDWATER MONITORING WELL**

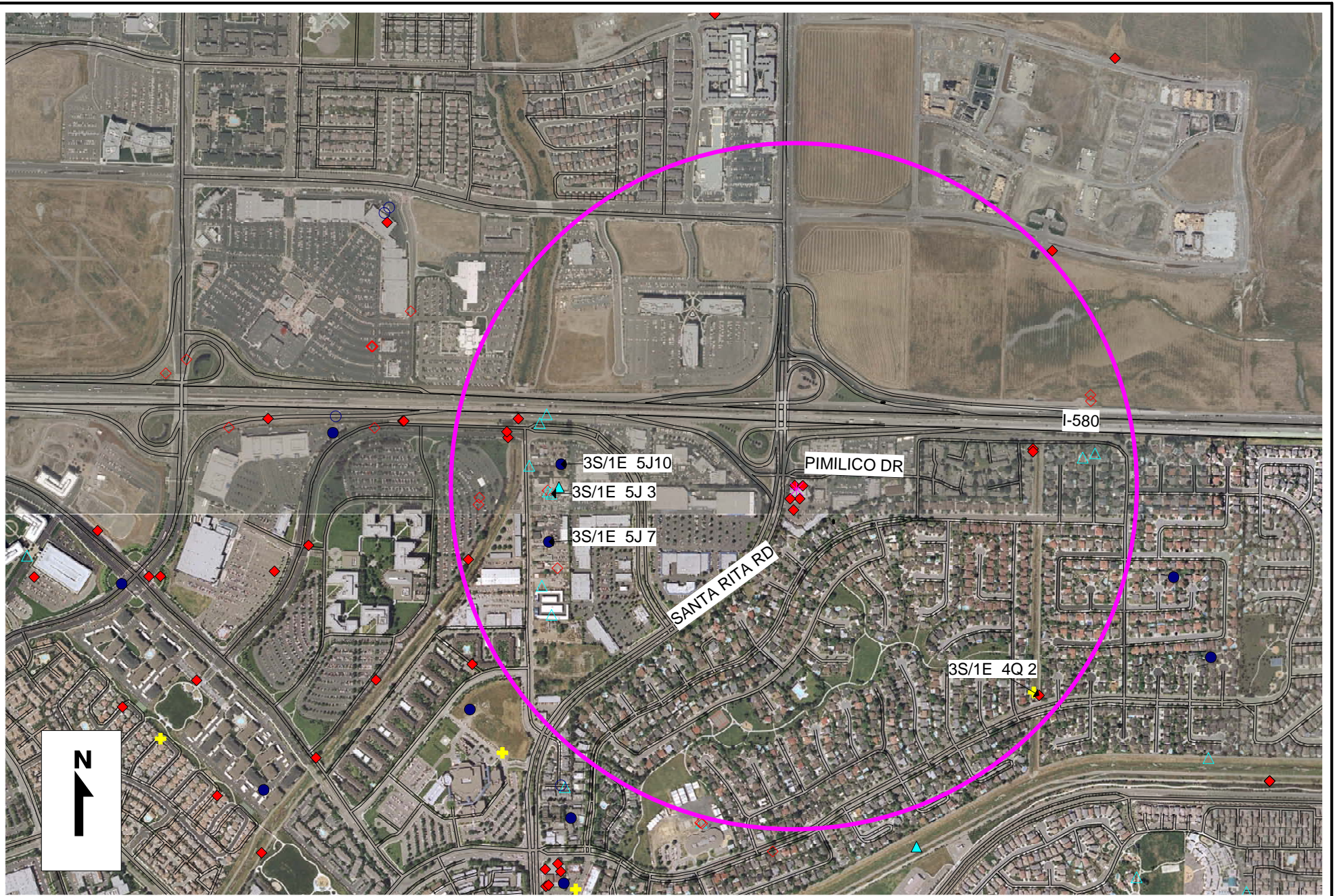
MW-5	<b>BENZENE/MTBE CONCENTRATIONS (UG/L)</b>
<math><0.5/<0.5</math>	<b>APRIL 14, 2005</b>



**BAKER TANK LOCATION MAP**  
**SHELL-BRANDED SERVICE STATION**  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 08/04/05
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY





**ZONE 7 WATER AGENCY**  
**100 NORTH CANYONS PARKWAY**  
**LIVERMORE, CA 94551**

**WELL LOCATION MAP**

**SCALE: 1" = 1000'**

**RADIUS = 1/2 mi**

**6750 SANTA RITA RD**  
 H:\FLOOD\REFERALLS\REFERALLS.WOR



ENVIRONMENTAL MANAGEMENT, INC.

**FILE**

December 19, 2002  
Project C85-6750 Santa Rita-JM

Mr. Paul Smith  
Livermore-Pleasanton Fire Department  
Hazardous Materials Division  
3560 Nevada Street  
Pleasanton, California 94566

**RE: Underground Storage Tank, Product Piping, and Dispenser Removals  
Report  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California**

Dear Mr. Smith:

KHM Environmental Management, Inc. (KHM), on behalf of Shell Oil Products US (Shell), has prepared this report documenting soil sampling performed in association with the removal of four underground storage tanks (USTs), piping, and fuel dispensers at the above-referenced site (Figure 1).

Soil sampling in the UST tank pit, beneath the product lines, and beneath the dispensers was performed under the direction of Mr. Paul Smith, Hazardous Materials Inspector, Livermore-Pleasanton Fire Department, Hazardous Materials Division (LPFD).

## **BACKGROUND AND SITE DESCRIPTION**

### **LOCATION**

The subject site is located on the southeast corner of Santa Rita Road and Pimlico Drive in Pleasanton, California (Figure 2). The property is currently the site of an active Shell service station.

### **SITE DESCRIPTION**

The Shell service station has three 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, and ten separate fuel dispensers (Figure 2). A convenience store building is centrally

located on the property. The site is located in an area characterized as mixed commercial and residential.

In October 2002, four groundwater monitoring wells were installed on the site by KHM (Figure 2). The wells were installed as part of a groundwater assessment program (GRASP) initiated by Shell. The borings encountered primarily clay and clayey sand from the ground surface to a depth of approximately 45 feet, the total depth explored. Groundwater was encountered in borings at a depth of approximately 32 feet. The wells will be monitored on a quarterly basis.

## **UST REMOVAL ACTIVITIES**

### **UST REMOVALS**

The four USTs were removed by Paradiso Mechanical, Inc. (Paradiso) of San Leandro, California on November 6, 2002. The USTs had been cleaned, rinsed, and inerted, by Paradiso, with the approval of the LPFD, prior to KHM's arrival on site. Each UST was loaded onto a separate truck provided by Ecology Control Industries (ECI) and hauled to Richmond, California for disposal. Mr. Paul Smith of the LPFD and Janet Yantis of KHM examined each UST as they were hoisted out of the tank pit cavity and lowered onto each truck. A crack was observed on the underside of UST, T-3, which resulted from hoisting the UST out of the pit. No other visible holes were observed in any of the four USTs.

Water was encountered within the UST pit during excavation activities at a depth of approximately 12 to 13 feet below grade.

### **UST SOIL SAMPLING AND ANALYSIS**

On November 6, 2002, KHM collected eight soil samples (T-1DP, T-1DF, T-2P through T-4P, and T-2F through T-4F) from the UST tank pit, each at a depth of approximately 14 feet below grade at the locations shown on Figure 2. Soil samples were collected using the bucket of the excavator. A soil sample was collected by pushing a brass tube into the soil within the excavator bucket. The brass tube was then removed, sealed with Teflon sheeting and a tight fitting plastic cap, and clearly labeled. Samples were placed on ice for transportation to the laboratory.

The soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), and fuel oxygenates (methyl-tert butyl ether [MTBE], diisopropyl ether [DIPE], ethyl-tert-butyl ether [ETBE], tert-amyl methyl ether [TAME], and tert-butanol [TBA]) by EPA Method 8260B. Chain of custody documentation and certified laboratory analytical reports are included as Attachment A. Analytical results are summarized on Table 1.

MTBE was detected in all but one soil sample (T-2DF) collected from the UST pit excavation, at concentrations ranging from 0.6 milligrams per kilogram (mg/kg) to 2.5

mg/kg. TBA was detected in all but two soil samples, at concentrations ranging from 0.9 mg/kg to 6.1 mg/kg. No other fuel oxygenates were detected in any of the soil samples collected from beneath the UST pit.

TPH-G was not detected in any of the soil samples collected from beneath the former USTs. Benzene and toluene were only detected in soil sample, T-2F, at 0.016 mg/kg and 0.031 mg/kg, respectively. Toluene and xylenes were detected in soil sample, T-2DF, at 0.0065 mg/kg and 0.0050 mg/kg, respectively. With the exception of the noted samples, no other samples collected from beneath the UST excavation pit contained concentrations of TPH-G, BTEX compounds, DIPE, ETBE, or TAME.

## **DISPENSER AND PIPING REMOVAL ACTIVITIES**

### **DISPENSER SOIL SAMPLING AND ANALYSIS**

Ten fuel dispensers and concrete pads were removed by Paradiso exposing underlying soil. On November 15, 2002, KHM collected a soil sample from beneath each dispenser (Figure 2). The upper three to five feet of soil was excavated below the former dispenser locations and a sample collected by pushing a brass tube into the underlying soil. The brass tube was then removed, sealed with Teflon sheeting and a tight fitting plastic cap, and clearly labeled. Samples were placed on ice for transportation to the laboratory.

The soil samples were analyzed for TPH-D, TPH-G, BTEX compounds, and fuel oxygenates by EPA Method 8260B. Chain of custody documentation and certified laboratory analytical reports are included as Attachment A. Analytical results are summarized on Table 1. Fuel oxygenates were not detected in any of the soil samples collected from beneath the ten fuel dispensers. TPH-D, TPH-G, and xylenes were detected in soil sample, D-2 at 5 feet, at 7.1 mg/kg, 10 mg/kg, and 0.52 mg/kg, respectively. TPH-D was also detected in soil sample, D-6 @ 4.5 feet, at 11 mg/kg. No other samples collected from beneath the fuel dispensers contained detectable concentrations of petroleum hydrocarbons.

### **PIPING TRENCH SOIL SAMPLING AND ANALYSIS**

The product piping connecting USTs to fuel dispensers was removed by Paradiso exposing the underlying soil. On December 15, 2002 KHM collected sixteen soil samples (P-1 through P-16) from the base of the piping trenches at the locations shown on Figure 2. The samples were collected by pushing a brass tube into the soil at the base of the trench. The brass tube was then removed, sealed with Teflon sheeting and a tight fitting plastic cap, and clearly labeled. Samples were placed on ice for transportation to the laboratory.

The soil samples were analyzed for TPH-D, TPH-G, BTEX compounds, and fuel oxygenates by EPA Method 8260B. Chain of custody documentation and certified laboratory analytical reports are included as Attachment A. Analytical results are summarized on Table 1. MTBE was detected in one soil sample, P-6 @ 6.5 feet, at 0.9 mg/kg. TPH-D was detected in two soil samples, P-11 @ 5.5 feet and P-12 @ 5 feet, at 18 mg/kg and 1.8

mg/kg, respectively. Ethylbenzene and xylenes were detected in sample P-14 @ 3.5 feet, at 0.018 mg/kg and 0.055 mg/kg, respectively. No other samples collected from the product piping trenches contained detectable concentrations of petroleum hydrocarbons.

### **WATER SAMPLING AND ANALYSES**

On November 6, 2002, KHM collected two water samples (T-2P-W and TP-W) from the water that accumulated in the excavated UST pit. The water samples were decanted into 40 milliliter glass vials (VOAs) until each was completely filled and capped, making sure no head space accumulated in each of the VOAs. The samples were placed on ice for transportation to the laboratory.

The water samples were analyzed for TPH-D, TPH-G, BTEX compounds, and five fuel oxygenates by EPA Method 8260B. Chain of custody documentation and certified laboratory analytical report are included as Attachment A. Analytical results are summarized on Table 2.

The two water samples contained concentrations of TPH-D, TPH-G, BTEX compounds and MTBE, ranging from 81 micrograms per liter (ug/l) (xylenes) to 55,000 ug/l (TPH-D). TPH-G was detected up to 9,300 ug/l; benzene was detected up to 270 ug/l; and MTBE was detected up to 11,000 ug/l. TAME, DIPE, ETBE and TBA were not detected in either of the water samples collected from the UST excavation pit.

Approximately 17,000 gallons of water were pumped from the UST excavation into a 20,000-gallon Baker tank. The removed water was pumped from the Baker tank into a vacuum truck and transported to Shell's Martinez, California refinery for recycling.

### **CONCLUSIONS**

Analytical water data indicates that high concentrations of petroleum hydrocarbons, including MTBE, are present in the water trapped within the excavation of the former USTs. MTBE was detected up to 11,000 ug/l. Gasoline and diesel were detected up to 55,000 ug/l and 9,300 ug/l, respectively.

The site is underlain by clay. The depth to which petroleum hydrocarbons have penetrated site soils is uncertain. No evidence of soil impacts were found in borings for Wells MW-1 and MW-2, located adjacent to the USTs. Four monitoring wells were installed at the site in October 2002. The wells were developed and sampled in mid-December 2002. KHM expects analytical results in early January 2003. Based upon the results of groundwater monitoring, KHM/Shell will re-evaluate the need for additional monitoring and/or further investigation of the soil and groundwater beneath the site.

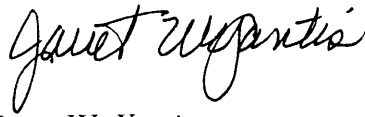
If you have any questions about the content of this report, please call.

December 20, 2002

Page 5

Sincerely,

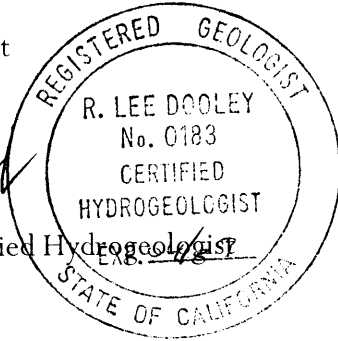
**KHM Environmental Management, Inc.**



Janet W. Yantis  
Project Geologist



R. Lee Dooley  
California Certified Hydrogeologist  
CHG 183



Attachments: Table 1 – Summary of Soil Analytical Data  
Table 2 – Summary of Water Analytical Data  
Figure 1 - Site Plan  
Attachment A - Certified Analytical Report and Chain-of-Custody Documentation

cc: Ms. Karen Petryna PE, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869  
Mr. Jim Martin, Shell Oil Products US, 126 Pearlgrass Court, San Ramon, California  
94583  
Mr. Chuck Headlee, California Regional Water Quality Control Board-San Francisco Bay  
Region,  
Mr. Lynn Walker, GRASP Northern California Manager, Shell Oil Products US, P.O. Box  
7869, Burbank, CA 91510-7869

**Table 1**  
**Summary of Soil Analytical Data**  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California

Sample Designation	Date Sampled	Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)
<b>Tank Pit Samples</b>													
T-1DP	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.010	<b>0.9</b>	<0.5	<0.5	<0.5	<b>1.0</b>
T-1DF	11/6/2002	14	NA	<1.0	<0.005	<b>0.0065</b>	<0.005	<b>0.0050</b>	<0.5	<0.5	<0.5	<0.5	<0.5
T-2P	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>2.5</b>	<0.5	<0.5	<0.5	<b>6.1</b>
T-2F	11/6/2002	14	NA	<1.0	<b>0.016</b>	<b>0.031</b>	<0.005	<0.005	<b>1.0</b>	<0.5	<0.5	<0.5	<0.5
T-3P	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>2.5</b>	<0.5	<0.5	<0.5	<b>4.6</b>
T-3F	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>1.5</b>	<0.5	<0.5	<0.5	<b>1.7</b>
T-4P	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>1.4</b>	<0.5	<0.5	<0.5	<b>3.0</b>
T-4F	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.6</b>	<0.5	<0.5	<0.5	<b>0.9</b>
<b>Dispenser Samples</b>													
D-1 @ 3'	11/15/200	3	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
D-2 @ 5'	11/15/200	5	<b>7.1"</b>	<b>10</b>	<0.005	<0.005	<0.005	<b>0.52</b>	<0.5	<0.5	<0.5	<0.5	<0.5
D-3 @ 4'	11/15/200	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
D-4 @ 4'	11/15/200	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
D-5 @ 5'	11/15/200	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
D-6 @ 4.5'	11/15/200	4.5	<b>11</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
D-7 @ 4.5'	11/15/200	4.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
D-8 @ 3.5'	11/15/200	3.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
D-9 @ 3.5'	11/15/200	3.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
D-10 @ 4'	11/15/200	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
<b>Piping Trench Samples</b>													
P-1 @ 3'	11/15/2002	3	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-2 @ 3'	11/15/2002	3	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-3 @ 5'	11/15/2002	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-4 @ 4.5'	11/15/2002	4.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-5 @ 5.5'	11/15/2002	5.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-6 @ 6.5'	11/15/2002	6.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.010	<b>0.9</b>	<0.5	<0.5	<0.5	<0.5
P-7 @ 6.5'	11/15/2002	6.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-8 @ 7.5'	11/15/2002	7.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-9 @ 7'	11/15/2002	7	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-10 @ 5.5'	11/15/2002	5.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-11 @ 5.5'	11/15/2002	5.5	<b>18</b>	<1.0	<0.005	<0.005	<0.005	<0.010	<0.5	<0.5	<0.5	<0.5	<0.5
P-12 @ 5'	11/15/2002	5	<b>1.8</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-13 @ 4'	11/15/2002	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5



**Table 1**  
**Summary of Soil Analytical Data**  
 Shell Service Station  
 6750 Santa Rita Road  
 Pleasanton, California

Sample Designation	Date Sampled	Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)
P-14 @ 3.5'	11/15/2002	3.5	<1.0	<1.0	<0.005	<0.005	<b>0.018</b>	<b>0.055</b>	<0.5	<0.5	<0.5	<0.5	<0.5
P-15 @ 5.5'	11/15/2002	5.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
P-16 @ 5'	11/15/2002	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
RBSLs			NE	NE	0.045	2.5	2.6	1.0	0.028	NE	NE	NE	NE

**Notes:**

RBSL = Risk Based Screening Level components for soil set by the California Regional Water Quality Control Board

All analysis performed by EPA Method 8260B

mg/kg = milligrams per kilogram

TPH-D = Total petroleum hydrocarbons as diesel

TPH-G = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tert-amyl methyl ether

TBA = Tert-Butanol

NA = Not analyzed

ND = Not detected

NE = Not established

ND = Not detected

<sup>a</sup> = Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample D-2@5'.

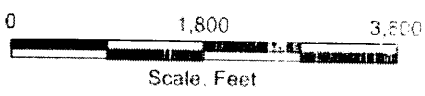
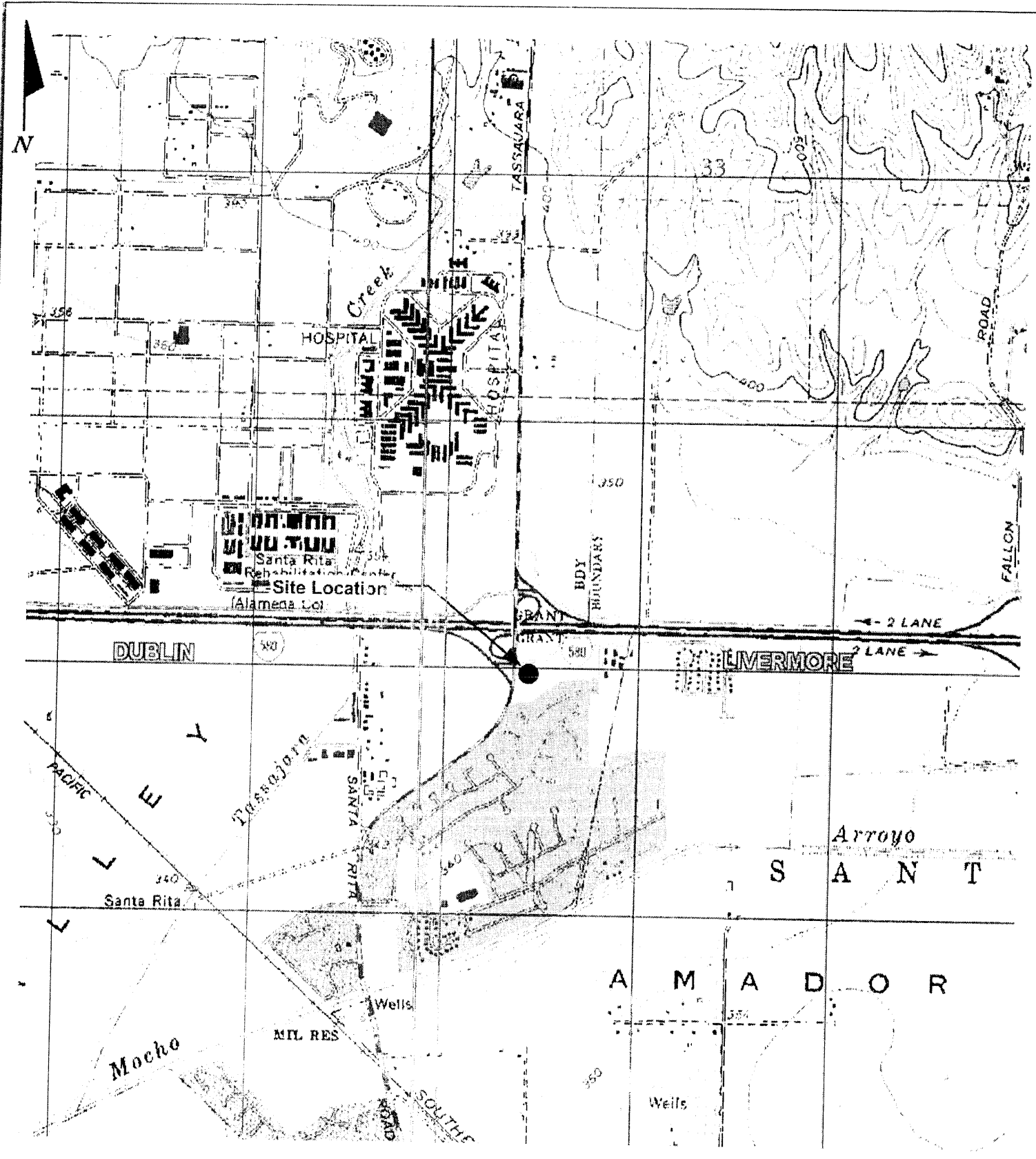
**Table 2**  
**Summary of Water Analytical Data**  
 Shell Service Station  
 6750 Santa Rita Road  
 Pleasanton, California

Sample Designation	Date Sampled	Depth (feet)	TPG-D (ug/l)	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethlybenzene (ug/l)	Xylene (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)
<b>Tank Pit Sample</b>													
T-2P-W	11/6/2002	14	55,000	7,300	210	1,100	81	900	11,000	NA	NA	NA	NA
TP-W	11/6/2002	14	840	9,300	270	1,800	130	1,100	8,000	NA	NA	NA	NA
All analysis performed by EPA Method 8260B mg/kg = milligrams per kilogram TPH-g = Total petroleum hydrocarbons as gasoline MTBE = Methyl tert-butyl ether DIPE = Diisopropyl ether ETBE = Ethyl tert-butyl ether TAME = Tert-amyl methyl ether TBA = Tert-Butanol NA = Not analyzed ND = Not detected ND = Not detected													

**ATTACHMENT A**

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**CERTIFIED ANALYTICAL REPORT AND  
CHAIN-OF-CUSTODY DOCUMENTATION**



**KHM**  
ENVIRONMENTAL  
MANAGEMENT,  
INC.

<b>SITE LOCATION MAP</b>		
<b>Shell Service Station</b> 6750 Santa Rita Road Pleasanton, California		
DATE	PROJECT	FIGURE
11/25/02	C81-6750 Santa Rita	1

Map Source: DeLorme, Yarmouth, ME 04096,  
USGA Topo Map

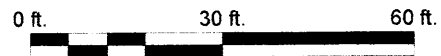


Wooden Step (typ)

Santa Rita Road



Entrance  
Ce



**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- T-2F ○ **TANK PIT SOIL SAMPLE LOCATION AND DESIGNATION**
- P-12 ● **PRODUCT LINE SOIL SAMPLE LOCATION AND DESIGNATION**
- D-1 ● **DISPENSER SOIL SAMPLE LOCATION AND DESIGNATION**
- **PLANTER**
- **GRASS**
- **SHRUB**

**SOIL SAMPLING LOCATION MAP**

**Shell-branded Service Station**  
6750 Santa Rita Road  
Pleasanton, California

DATE 12/18/02

PROJECT C85-6750 Santa Rita - PP

FIGURE 1

**ATTACHMENT A**

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**CERTIFIED ANALYTICAL REPORT AND  
CHAIN-OF-CUSTODY DOCUMENTATION**



Report Number : 29691

Date : 11/18/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-18 Rancho

Sample : T-1DP

Matrix : Soil

Lab Number : 29691-01

Sample Date : 11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/18/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/18/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/18/2002
<b>Total Xylenes</b>	<b>&lt; 0.010</b>	0.010	mg/Kg	EPA 8260B	11/18/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>0.9</b>	0.5	mg/Kg	EPA 8260B	11/18/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/18/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/18/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/18/2002
<b>Tert-Butanol</b>	<b>1.0</b>	0.5	mg/Kg	EPA 8260B	11/18/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/18/2002
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	11/18/2002
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	11/18/2002

Approved By:  Joel Kiff



Report Number : 29691

Date : 11/18/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-18 Rancho

Sample : T-1DF

Matrix : Soil

Lab Number : 29691-04

Sample Date :11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Toluene</b>	<b>0.0065</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Total Xylenes</b>	<b>0.0050</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/14/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/14/2002
4-Bromofluorobenzene (Surr)	96.0		% Recovery	EPA 8260B	11/14/2002

Approved By:  Joel Kiff





Report Number : 29691

Date : 11/18/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-18 Rancho

Sample : T-2P

Matrix : Soil

Lab Number : 29691-08

Sample Date : 11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Methyl-t-butyl ether (MTBE)</b>	2.5	0.5	mg/Kg	EPA 8260B	11/17/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-Butanol</b>	6.1	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/14/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/14/2002
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	11/14/2002

Approved By:  Joel Kiff



Report Number : 29691

Date : 11/18/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-18 Rancho

Sample : T-2F

Matrix : Soil

Lab Number : 29691-07

Sample Date :11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>0.016</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Toluene</b>	<b>0.031</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>1.0</b>	0.5	mg/Kg	EPA 8260B	11/16/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/14/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/14/2002
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	11/14/2002

Approved By:  Joel Kiff



Report Number : 29691

Date : 11/18/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-18 Rancho

Sample : T-3P

Matrix : Soil

Lab Number : 29691-03

Sample Date : 11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Methyl-t-butyl ether (MTBE)</b>	2.5	0.5	mg/Kg	EPA 8260B	11/16/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-Butanol</b>	4.6	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/14/2002
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/14/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	11/14/2002

Approved By:  Joel Kiff



Report Number : 29691

Date : 11/18/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-18 Rancho

Sample : T-3F

Matrix : Soil

Lab Number : 29691-02

Sample Date :11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/16/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/16/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/16/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/16/2002
<b>Methyl-t-butyl ether (MTBE)</b>	1.5	0.5	mg/Kg	EPA 8260B	11/16/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/16/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/16/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/16/2002
<b>Tert-Butanol</b>	1.7	0.5	mg/Kg	EPA 8260B	11/16/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/16/2002
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	11/16/2002
4-Bromofluorobenzene (Surr)	92.7		% Recovery	EPA 8260B	11/16/2002

Approved By:  Joel Kiff



Report Number : 29691

Date : 11/18/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-18 Rancho

Sample : T-4P

Matrix : Soil

Lab Number : 29691-06

Sample Date :11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>1.4</b>	0.5	mg/Kg	EPA 8260B	11/16/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-Butanol</b>	<b>3.0</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/14/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/14/2002
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	11/14/2002

Approved By:  Joel Kiff



Report Number : 29691

Date : 11/18/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-18 Rancho

Sample : T-4F

Matrix : Soil

Lab Number : 29691-05

Sample Date :11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/14/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>0.6</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>Tert-Butanol</b>	<b>0.9</b>	0.5	mg/Kg	EPA 8260B	11/14/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/14/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/14/2002
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	11/14/2002

Approved By:  Joel Kiff

Report Number : 29691

Date : 11/18/2002

**QC Report : Method Blank Data**

Project Name : **6750 Santa Rita Road, Pleasanton, CA**

Project Number : **C85-18 Rancho**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/11/2002
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	11/11/2002
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/11/2002
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	11/11/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/11/2002
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/11/2002
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/11/2002
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	11/11/2002
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	11/11/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/11/2002
Toluene - d8 (Surr)	99.6		%	EPA 8260B	11/11/2002
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	11/11/2002

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

Project Name : 6750 Santa Rita Road,

Project Number : C85-18 Rancho

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	29679-01	<0.0050	0.0397	0.0393	0.0380	0.0307	mg/Kg	EPA 8260B	11/11/02	95.8	78.2	20.2	70-130	25
Toluene	29679-01	<0.0050	0.0397	0.0393	0.0375	0.0304	mg/Kg	EPA 8260B	11/11/02	94.6	77.3	20.2	70-130	25
Tert-Butanol	29679-01	<0.0050	0.198	0.196	0.194	0.179	mg/Kg	EPA 8260B	11/11/02	97.5	91.2	6.74	70-130	25
Methyl-t-Butyl Ether	29679-01	<0.0050	0.0397	0.0393	0.0389	0.0403	mg/Kg	EPA 8260B	11/11/02	98.1	102	4.36	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff  
Joel Kiff



Report Number : 29691

Date : 11/18/2002

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **6750 Santa Rita Road,**

Project Number : **C85-18 Rancho**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0405	mg/Kg	EPA 8260B	11/11/02	94.6	70-130
Toluene	0.0405	mg/Kg	EPA 8260B	11/11/02	93.4	70-130
Tert-Butanol	0.202	mg/Kg	EPA 8260B	11/11/02	99.9	70-130
Methyl-t-Butyl Ether	0.0405	mg/Kg	EPA 8260B	11/11/02	94.2	70-130

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff

720 Olive Drive, Suite D  
Davis, CA 95616

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

Equiva Project Manager to be Invoiced:

Jim Martin

29691

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- GRMT HOUSTON

SAMPLING COMPANY:  
KHM Environmental Management  
ADDRESS:  
6284 San Ignacio Ave., San Jose, CA 95119

PROJECT CONTACT (hardcopy or PDF Report to):  
Janet Yantis  
TELEPHONE: (408) 224-4724  
FAX: (408) 224-4518  
E MAIL: jyan1e@khm1.com

TURNAROUND TIME (BUSINESS DAYS):  
 10 DAYS  
 5 DAYS  
 72 HOURS  
 48 HOURS  
 24 HOURS  
 LESS THAN 24 HOURS  
 IA - RMWCB REPORT FORMAT  UST AGENCY:  
 GCMS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST PER BORING ALL  
 SPECIAL INSTRUCTIONS OR NOTES:  CHECK BOX IF EDD IS NEEDED

FIELD SAMPLE IDENTIFICATION

DATE	TIME	SAMPLING	NO. OF CONT.	MATRIX
11/16/02	2:50	S	1	
	2:45			
	2:35			
	2:10			
	2:40			
	2:35			
	3:05			
	3:05			
	3:10			

Field Sample Identification	TPH - Gas, Purgeable	BTEX	MTBE (9021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5095 Extraction for Volatiles	VOCs Halogenated/Aromatic (9021B)	TPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48-_____)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note
T-1DP	X	X	X	X	X	X												
T-3F	X	X	X	X	X	X												
T-3P	X	X	X	X	X	X												
T-1DF	X	X	X	X	X	X												
T-4F	X	X	X	X	X	X												
T-4P	X	X	X	X	X	X												
T-2F	X	X	X	X	X	X												
T-2P	X	X	X	X	X	X												

Requested by: (Signature) *Janet Yantis*  
 Received by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Requested by: (Signature) \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Requested by: (Signature) \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

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

EQUIVA Services LLC Chain Of Custody Record

INCIDENT NUMBER (S&E ONLY):

S&P or CRMT NUMBER (TS/CRMT):

GLOBAL ID NO.:

DATE: 11/16/02

PAGE: 1 of 1

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.:

6750 Santa Rita Road, Pleasanton, CA

FOR DELIVERABLE TO Responsible Party or Designer:

Vera Fischer

SAMPLER NAME (S) From: Janet Yantis

VPOWER@khm1.com

C85-18 Rancho

REQUESTED ANALYSIS

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

TEMPERATURE ON RECEIPT C



Report Number : 29878

Date : 11/26/2002

Janet Yantis  
KHM Environmental Management  
6284 San Ignacio Avenue, Suite E  
San Jose, CA

Subject : 26 Soil Samples  
Project Name : 6750 Santa Rita Road, Pleasanton, CA  
Project Number : C85-6750 Santa Rita  
P.O. Number : SAP# 135786

Dear Ms. Yantis,

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 that reads "Joel Kiff". The signature is written in a cursive style with a large, looped initial "J".

Joel Kiff



Report Number : 29878

Date : 11/26/2002

Subject : 26 Soil Samples  
Project Name : 6750 Santa Rita Road, Pleasanton, CA  
Project Number : C85-6750 Santa Rita  
P.O. Number : SAP# 135786

## Case Narrative

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample D-2@5'.

Approved By:  \_\_\_\_\_  
Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : D-1@3'

Matrix : Soil

Lab Number : 29878-01

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/25/2002
1-Chlorooctadecane (Diesel Surrogate)	93.2		% Recovery	M EPA 8015	11/25/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita


Sample : D-2@5'

Matrix : Soil

Lab Number : 29878-02

Sample Date : 11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/23/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/23/2002
<b>Ethylbenzene</b>	<b>0.026</b>	0.005	mg/Kg	EPA 8260B	11/23/2002
<b>Total Xylenes</b>	<b>0.52</b>	0.010	mg/Kg	EPA 8260B	11/23/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>TPH as Gasoline</b>	<b>10</b>	1.0	mg/Kg	EPA 8260B	11/23/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/23/2002
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	11/23/2002
<b>TPH as Diesel</b>	<b>7.1</b>	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	101		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : D-3@4'

Matrix : Soil

Lab Number : 29878-03

Sample Date : 11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/22/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/22/2002
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	11/22/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	101		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : D-4@4'

Matrix : Soil

Lab Number : 29878-04

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	96.1		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	98.7		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff





Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita


Sample : D-5@5'

Matrix : Soil

Lab Number : 29878-05

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	95.9		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	101		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita


Sample : D-6@4.5'

Matrix : Soil

Lab Number : 29878-06

Sample Date : 11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	11	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	102		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : D-7@4.5'

Matrix : Soil

Lab Number : 29878-07

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	112		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : D-8@3.5'

Matrix : Soil

Lab Number : 29878-08

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/22/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/22/2002
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	11/22/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	93.3		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : D-9@3.5'

Matrix : Soil

Lab Number : 29878-23

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	97.0		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/23/2002
1-Chlorooctadecane (Diesel Surrogate)	121		% Recovery	M EPA 8015	11/23/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : D-10@4'

Matrix : Soil

Lab Number : 29878-24

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/23/2002
1-Chlorooctadecane (Diesel Surrogate)	109		% Recovery	M EPA 8015	11/23/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita


Sample : P-3@5'

Matrix : Soil

Lab Number : 29878-11

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/25/2002
1-Chlorooctadecane (Diesel Surrogate)	98.1		% Recovery	M EPA 8015	11/25/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-1@3'

Matrix : Soil

Lab Number : 29878-09

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>1.1</b>	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	102		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff





Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-4@4.5'

Matrix : Soil

Lab Number : 29878-12

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/22/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/22/2002
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	11/22/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/25/2002
1-Chlorooctadecane (Diesel Surrogate)	95.4		% Recovery	M EPA 8015	11/25/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-9@7'

Matrix : Soil

Lab Number : 29878-17

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	95.9		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	99.6		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	95.2		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-8@7.5'

Matrix : Soil

Lab Number : 29878-16

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	111		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-5@5.5'

Matrix : Soil

Lab Number : 29878-13

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	91.2		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	99.6		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/25/2002
1-Chlorooctadecane (Diesel Surrogate)	96.7		% Recovery	M EPA 8015	11/25/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-7@6.5'

Matrix : Soil

Lab Number : 29878-15

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	96.9		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	100		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : **6750 Santa Rita Road, Pleasanton, CA**

Project Number : **C85-6750 Santa Rita**

Sample : **P-6@6.5'**

Matrix : Soil

Lab Number : 29878-14

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/22/2002
<b>Total Xylenes</b>	<b>&lt; 0.010</b>	0.010	mg/Kg	EPA 8260B	11/22/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>0.9</b>	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/22/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/22/2002
Toluene - d8 (Surr)	112		% Recovery	EPA 8260B	11/22/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	11/22/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/25/2002
1-Chlorooctadecane (Diesel Surrogate)	94.9		% Recovery	M EPA 8015	11/25/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-11@5.5'

Matrix : Soil

Lab Number : 29878-19

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/23/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/23/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/23/2002
<b>Total Xylenes</b>	<b>&lt; 0.010</b>	0.010	mg/Kg	EPA 8260B	11/23/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/23/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/23/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/23/2002
4-Bromofluorobenzene (Surr)	95.1		% Recovery	EPA 8260B	11/23/2002
<b>TPH as Diesel</b>	<b>18</b>	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-10@5.5'

Matrix : Soil

Lab Number : 29878-18

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	94.6		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff





Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita


Sample : P-2@3'

Matrix : Soil

Lab Number : 29878-10

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	< 1.0	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	117		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : **6750 Santa Rita Road, Pleasanton, CA**

Project Number : **C85-6750 Santa Rita**

Sample : **P-12@5'**

Matrix : Soil

Lab Number : 29878-20

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>1.8</b>	1.0	mg/Kg	M EPA 8015	11/26/2002
1-Chlorooctadecane (Diesel Surrogate)	115		% Recovery	M EPA 8015	11/26/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita


Sample : P-13@4'

Matrix : Soil

Lab Number : 29878-21

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	93.5		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/23/2002
1-Chlorooctadecane (Diesel Surrogate)	119		% Recovery	M EPA 8015	11/23/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : **6750 Santa Rita Road, Pleasanton, CA**

Project Number : **C85-6750 Santa Rita**

Sample : **P-14@3.5'**

Matrix : Soil

Lab Number : 29878-22

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Ethylbenzene</b>	<b>0.018</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Total Xylenes</b>	<b>0.055</b>	0.005	mg/Kg	EPA 8260B	11/21/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/21/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	11/21/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/23/2002
1-Chlorooctadecane (Diesel Surrogate)	120		% Recovery	M EPA 8015	11/23/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : 6750 Santa Rita Road, Pleasanton, CA

Project Number : C85-6750 Santa Rita

Sample : P-15@5.5'

Matrix : Soil

Lab Number : 29878-25

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/20/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/20/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/20/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/20/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/20/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	11/20/2002
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	11/20/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/23/2002
1-Chlorooctadecane (Diesel Surrogate)	114		% Recovery	M EPA 8015	11/23/2002

Approved By:  Joel Kiff



Report Number : 29878

Date : 11/26/2002

Project Name : **6750 Santa Rita Road, Pleasanton, CA**

Project Number : **C85-6750 Santa Rita**

Sample : **P-16@5'**

Matrix : Soil

Lab Number : 29878-26

Sample Date :11/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/20/2002
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/20/2002
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/20/2002
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	11/20/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	11/20/2002
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	11/20/2002
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	11/20/2002
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	11/20/2002
<b>TPH as Diesel</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	M EPA 8015	11/23/2002
1-Chlorooctadecane (Diesel Surrogate)	120		% Recovery	M EPA 8015	11/23/2002

Approved By:  Joel Kiff

**QC Report : Method Blank Data**

**Project Name : 6750 Santa Rita Road, Pleasanton, CA**


**Project Number : C85-6750 Santa Rita**

Report Number : 29878

Date : 11/26/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	11/22/2002
1-Chlorooctadecane (Diesel Surrogate)	96.6		%	M EPA 8015	11/22/2002
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	11/25/2002
1-Chlorooctadecane (Diesel Surrogate)	97.6		%	M EPA 8015	11/25/2002
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	11/21/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	11/21/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/21/2002
Toluene - d8 (Surr)	102		%	EPA 8260B	11/21/2002
4-Bromofluorobenzene (Surr)	98.3		%	EPA 8260B	11/21/2002
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/23/2002
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	11/23/2002
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	11/23/2002
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	11/23/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/23/2002
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/23/2002
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	11/23/2002
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	11/23/2002
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	11/23/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	11/23/2002
Toluene - d8 (Surr)	102		%	EPA 8260B	11/23/2002
4-Bromofluorobenzene (Surr)	98.1		%	EPA 8260B	11/23/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 29878

Date : 11/26/2002

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **6750 Santa Rita Road,**

Project Number : **C85-6750 Santa Rita**

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	29878-01	<0.0050	0.0394	0.0398	0.0376	0.0375	mg/Kg	EPA 8260B	11/23/02	95.4	94.2	1.26	70-130	25
Toluene	29878-01	<0.0050	0.0394	0.0398	0.0357	0.0360	mg/Kg	EPA 8260B	11/23/02	90.7	90.5	0.221	70-130	25
Tert-Butanol	29878-01	<0.0050	0.197	0.199	0.182	0.184	mg/Kg	EPA 8260B	11/23/02	92.8	92.7	0.0809	70-130	25
Methyl-t-Butyl Ether	29878-01	<0.0050	0.0394	0.0398	0.0336	0.0344	mg/Kg	EPA 8260B	11/23/02	85.2	86.5	1.43	70-130	25
TPH as Diesel	29871-03	<1.0	20.0	20.0	20.2	19.3	mg/Kg	M EPA 8015	11/23/02	101	96.4	4.92	60-140	25
TPH as Diesel	29878-11	<1.0	20.0	20.0	20.5	20.3	mg/Kg	M EPA 8015	11/25/02	102	102	0.819	60-140	25
Benzene	29877-02	<0.0050	0.0399	0.0397	0.0372	0.0364	mg/Kg	EPA 8260B	11/21/02	93.2	91.7	1.60	70-130	25
Toluene	29877-02	<0.0050	0.0399	0.0397	0.0376	0.0352	mg/Kg	EPA 8260B	11/21/02	94.2	88.8	5.93	70-130	25
Tert-Butanol	29877-02	<0.0050	0.200	0.198	0.187	0.189	mg/Kg	EPA 8260B	11/21/02	93.7	95.2	1.54	70-130	25
Methyl-t-Butyl Ether	29877-02	<0.0050	0.0399	0.0397	0.0427	0.0420	mg/Kg	EPA 8260B	11/21/02	107	106	0.986	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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



Report Number : 29878

Date : 11/26/2002

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **6750 Santa Rita Road,**

Project Number : **C85-6750 Santa Rita**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0399	mg/Kg	EPA 8260B	11/21/02	99.0	70-130
Toluene	0.0399	mg/Kg	EPA 8260B	11/21/02	97.3	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	11/21/02	93.0	70-130
Methyl-t-Butyl Ether	0.0399	mg/Kg	EPA 8260B	11/21/02	88.5	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	11/22/02	87.6	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	11/25/02	95.9	70-130
Benzene	0.0393	mg/Kg	EPA 8260B	11/21/02	95.7	70-130
Toluene	0.0393	mg/Kg	EPA 8260B	11/21/02	98.2	70-130
Tert-Butanol	0.196	mg/Kg	EPA 8260B	11/21/02	90.6	70-130
Methyl-t-Butyl Ether	0.0393	mg/Kg	EPA 8260B	11/21/02	109	70-130

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff

KIFF ANALYTICAL

# EQUIVA Services LLC Chain Of Custody Record

720 Olive Drive, Suite D  
Davis, CA 95616

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

Equiva Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Jim Martin

29878

INCIDENT NUMBER (S&E ONLY)

SAP or CRMT NUMBER (TS/CRMT)

1 3 5 7 8 6

DATE: 11/18/02  
PAGE: 1 of 3

**SAMPLING COMPANY:** KHM Environmental Mangement  
**LOG CODE:** KHMS

**ADDRESS:** 6284 San Ignacio Ave., San Jose, CA 95119  
**SITE ADDRESS (Street and City):** 6750 Santa Rita Road, Pleasanton, CA

**PROJECT CONTACT (Hardcopy or PDF Report to):** Janet Yantis  
**EDF DELIVERABLE TO (Responsible Party or Designee):** Vera Fischer  
**PHONE NO.:** (408) 224-4724  
**E-MAIL:** vbrower@khm1.com  
**CONSULTANT PROJECT NO.:** C85-6750 Santa Rita

**TELEPHONE:** (408) 224-4724  
**FAX:** (408) 224-4518  
**E-MAIL:** jyantis@khm1.com  
**SAMPLER NAME(S) (Print):** Garrett Haertel

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

LA - RWQCB REPORT FORMAT  
 UST AGENCY: \_\_\_\_\_

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

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

**REQUESTED ANALYSIS**

Field Sample Identification	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (6) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 8035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT °C
D-1 @ 3'	11/15/02	1120	S	1	X	X		X													X		-01	
D-2 @ 5'		1135			X	X		X													X		-02	
D-3 @ 4'		1205			X	X		X													X		-03	
D-4 @ 4'		1215			X	X		X													X		-04	
D-5 @ 5'		1315			X	X		X													X		-05	
D-6 @ 4.5'		1330			X	X		X													X		-06	
D-7 @ 4.5'		1410			X	X		X													X		-07	
D-8 @ 3.5'		1445			X	X		X													X		-08	
P-1 @ 3'		1125			X	X		X													X		-09	
P-2 @ 3'		1130			X	X		X													X		-10	

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C&C Graphic (714) 888-8702

10/16/00 Revision

# EQUIVA Services LLC Chain Of Custody Record

720 Olive Drive, Suite D  
Davis, CA 95616

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

Equiva Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Jim Martin

29878

INCIDENT NUMBER (S&E ONLY)

SAP or CRMT NUMBER (TS/CRMT)

1 3 5 7 8 6

DATE: 11/18/02

PAGE: 2 of 3

SAMPLING COMPANY: <b>KHM Environmental Mangement</b>		LOG CODE: <b>KHMS</b>	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton, CA</b>		GLOBAL ID NO.:
ADDRESS: <b>6284 San Ignacio Ave., San Jose, CA 95119</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Vera Fischer</b>		PHONE NO.: <b>(408) 224-4724</b>	E-MAIL: <b>vbrower@khm1.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Janet Yantis</b>		SAMPLER NAME(S) (Print): <b>Garrett Haertel</b>		CONSULTANT PROJECT NO.: <b>C85-6750 Santa Rita</b>	
TELEPHONE: <b>(408) 224-4724</b>	FAX: <b>(408) 224-4518</b>	E-MAIL: <b>jyantis@khm1.com</b>		LAB USE ONLY	

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ CHECK BOX IF EDD IS NEEDED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MTRK	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (9021B - 5ppb RL)	MTBE (9260B - 0.5ppb RL)	Oxygenates (5) by (9260B)	Ethanol (9260B)	Methanol	EDB & 1,2-DCA (9260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (9021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B)	TPH - Diesel, Extractable (8015m)	MTBE (9260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT C°
		DATE	TIME																						
	P-3 @ 5'	11/15/02	1135	S	1	X	X		X																-11
	P-4 @ 4.5'		1200			X	X		X																-12
	P-5 @ 5.5'		1210			X	X		X																-13
	P-6 @ 6.5'		1225			X	X		X																-14
	P-7 @ 6.5'		1250			X	X		X																-15
	P-8 @ 7.5'		1307			X	X		X																-16
	P-9 @ 7'		1320			X	X		X																-17
	P-10 @ 5.5'		1335			X	X		X																-18
	P-11 @ 5.5'		1350			X	X		X																-19
	P-12 @ 5'		1352			X	X		X																-20

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Received by: (Signature)	Date:	Time:
Received by: (Signature) <i>Joh... Kiff Analytical</i>	Date: 11/19/02	Time: 1124

KIFF ANALYTICAL

# EQUIVA Services LLC Chain Of Custody Record

720 Olive Drive, Suite D  
Davis, CA 95616

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

Equiva Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Jim Martin

29878

INCIDENT NUMBER (S&E ONLY)

SAP or CRMT NUMBER (TS/CRMT)

1 3 5 7 8 6

DATE: 11/18/02  
PAGE: 3 of 3

**SAMPLING COMPANY:** KHM Environmental Mangement **LOG CODE:** KHMS

**ADDRESS:** 6284 San Ignacio Ave., San Jose, CA 95119

**PROJECT CONTACT (Hard copy or PDF Report to):** Janet Yantis

**TELEPHONE:** (408) 224-4724 **FAX:** (408) 224-4518 **E-MAIL:** jyantis@khm1.com

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

**GC/MS MTBE CONFIRMATION:** HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

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

**SITE ADDRESS (Street and City):** 6750 Santa Rita Road, Pleasanton, CA

**EDF DELIVERABLE TO (Responsible Party or Designee):** Vera Fischer **PHONE NO.:** (408) 224-4724 **E-MAIL:** vbrower@khm1.com

**SAMPLER NAME(S) (Print):** Garrett Haertel

**CONSULTANT PROJECT NO.:** C85-6750 Santa Rita

**REQUESTED ANALYSIS**

TPH - Gas, Purgeable	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (E) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418-1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note
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**FIELD NOTES:**  
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (E) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418-1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C°
		DATE	TIME																					
	P-13 @ 4'	11/15/02	1420	S	1	X	X			X												X		-21
	P-14 @ 3.5'		1430			X	X			X												X		-22
	D-9 @ 3.5'		1510			X	X			X												X		-23
	D-10 @ 4'		1525			X	X			X												X		-24
	P-15 @ 5.5'		1515			X	X			X												X		-25
	P-16 @ 5'	✓	1520	✓	✓	X	X			X												X		-26

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Relinquished by: (Signature) John Curtis Kiff Analytical Date: 11/19/02 Time: 1124

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10/16/00 Revision

Q&O Graphic (714) 888-9702



Report Number : 29658

Date : 11/11/2002

Janet Yantis  
KHM Environmental Management  
6284 San Ignacio Avenue, Suite E  
San Jose, CA

Subject : 2 Water Samples  
Project Name : 6750 Santa Rita Rd., Pleasanton  
Project Number : C85-6750 Santa Rita-  
P.O. Number : SAP# 135786

Dear Ms. Yantis,

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 that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 29658

Date : 11/11/2002

Project Name : **6750 Santa Rita Rd., Pleasanton**

Project Number : **C85-6750 Santa Rita-**

Sample : **T-2P-W**

Matrix : Water

Lab Number : 29658-01

Sample Date :11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>210</b>	20	ug/L	EPA 8260B	11/10/2002
<b>Toluene</b>	<b>1100</b>	20	ug/L	EPA 8260B	11/10/2002
<b>Ethylbenzene</b>	<b>81</b>	20	ug/L	EPA 8260B	11/10/2002
<b>Total Xylenes</b>	<b>900</b>	20	ug/L	EPA 8260B	11/10/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>11000</b>	200	ug/L	EPA 8260B	11/10/2002
<b>TPH as Gasoline</b>	<b>7300</b>	2000	ug/L	EPA 8260B	11/10/2002
Toluene - d8 (Surr)	93.1		% Recovery	EPA 8260B	11/10/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	11/10/2002
<b>TPH as Diesel</b>	<b>55000</b>	500	ug/L	M EPA 8015	11/11/2002

Sample : **TP-W**

Matrix : Water

Lab Number : 29658-02

Sample Date :11/6/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>270</b>	20	ug/L	EPA 8260B	11/10/2002
<b>Toluene</b>	<b>1800</b>	20	ug/L	EPA 8260B	11/10/2002
<b>Ethylbenzene</b>	<b>130</b>	20	ug/L	EPA 8260B	11/10/2002
<b>Total Xylenes</b>	<b>1100</b>	20	ug/L	EPA 8260B	11/10/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>8000</b>	250	ug/L	EPA 8260B	11/11/2002
<b>TPH as Gasoline</b>	<b>9300</b>	2000	ug/L	EPA 8260B	11/10/2002
Toluene - d8 (Surr)	92.7		% Recovery	EPA 8260B	11/10/2002
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	11/10/2002
<b>TPH as Diesel</b>	<b>840</b>	50	ug/L	M EPA 8015	11/10/2002

Approved By:  Joel Kiff

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

**QC Report : Method Blank Data**

Project Name : **6750 Santa Rita Rd., Pleasanton**

Project Number : **C85-6750 Santa Rita-**

Report Number : 29658

Date : 11/11/2002

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
TPH as Diesel	< 50	50	ug/L	M EPA 8015	11/10/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/9/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/9/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/9/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/9/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	11/9/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/9/2002
Toluene - d8 (Surr)	104		%	EPA 8260B	11/9/2002
4-Bromofluorobenzene (Surr)	96.5		%	EPA 8260B	11/9/2002

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



Report Number : 29658

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Date : 11/11/2002

Project Name : **6750 Santa Rita Rd.,**

Project Number : **C85-6750 Santa Rita-**

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
TPH as Diesel	Blank	<50	1000	1000	911	971	ug/L	M EPA 8015	11/10/02	91.1	97.1	6.34	70-130	25
Benzene	29587-03	2.5	98.5	98.5	94.8	98.6	ug/L	EPA 8260B	11/9/02	93.6	97.5	4.08	70-130	25
Toluene	29587-03	<0.50	98.5	98.5	92.0	95.1	ug/L	EPA 8260B	11/9/02	93.4	96.5	3.32	70-130	25
Tert-Butanol	29587-03	5.8	493	493	517	506	ug/L	EPA 8260B	11/9/02	104	102	2.15	70-130	25
Methyl-t-Butyl Ether	29587-03	<0.50	98.5	98.5	76.7	79.4	ug/L	EPA 8260B	11/9/02	77.8	80.6	3.47	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff



Report Number : 29658

Date : 11/11/2002

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **6750 Santa Rita Rd.,**

Project Number : **C85-6750 Santa Rita-**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	11/9/02	105	70-130
Toluene	40.0	ug/L	EPA 8260B	11/9/02	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/9/02	88.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/9/02	96.6	70-130

KIFF ANALYTICAL, LLC

Approved By:  \_\_\_\_\_  
Joel Kiff

# EQUIVA Services LLC Chain Of Custody Record

720 Olive Drive, Suite D  
Davis, CA 95616

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

Equiva Project Manager to be Invoiced:

- SCIENCE & ENGINEERING Karen Petryna
- TECHNICAL SERVICES
- CRMT HOUSTON

29658

INCIDENT NUMBER (S&E ONLY)

SAP or CRMT NUMBER (TS/CRMT)

1 3 5 7 8 6

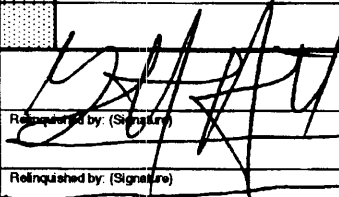
DATE: 11-05-02

PAGE: 1 of 1

SAMPLING COMPANY: <b>KHM Environmental Mangement</b>		LOG CODE:	SITE ADDRESS (Street and City): <b>6750 Santa Rita Rd., Pleasanton</b>		GLOBAL ID NO.:
ADDRESS: <b>6284 San Ignacio Ave., San Jose, CA 95119</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Janet Yantis</b>		PHONE NO.: <b>(408) 224-4724</b>	E-MAIL: <b>jyantis@khm1.com</b>
PROJECT CONTACT (hardcopy or PDF Report to): <b>Janet Yantis</b>		SAMPLER NAME(S) (Print): <b>Janet Yantis</b>		CONSULTANT PROJECT NO.: <b>C85-6750 Santa Rita-PP</b>	
TELEPHONE: <b>(408) 224-4724</b>	FAX: <b>(408) 224-4518</b>	E-MAIL: <b>jyantis@khm1.com</b>		LAB USE ONLY	

TURNAROUND TIME (BUSINESS DAYS): <input type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input checked="" type="checkbox"/> LESS THAN 24 HOURS		<b>REQUESTED ANALYSIS</b>										<b>FIELD NOTES:</b> Container/Preservative or PID Readings or Laboratory Notes									
<input type="checkbox"/> LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY: _____		TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (6) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8280B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)		TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48- )	Total RCRA 8 Metals	TPH - Diesel, Extractable (9015m)	MTBE (8260B) Confirmation, See Note
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____																					
SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED <input type="checkbox"/>  Note Sample Date, please meet hold times.																					

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (6) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8280B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48- )	Total RCRA 8 Metals	TPH - Diesel, Extractable (9015m)	MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C°	
			DATE	TIME																							
	T-2P-W		11/6/02	15:15	Water	3	X	X	X																		701
	TP-W		11/6/02	11:30	Water	4	X	X	X																		702

	Received by: (Signature)	Date:	Time:
Received by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) <i>John Cuthbert / Kiff Analytical</i>	Date: 110802	Time: 1058

## WELL GAUGING DATA

Project # 050729.PC1 Date 7/29/05 Client Shell

Site 6750 Santa Rita Rd., Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <del>TOC</del>
MW-1	2					26.33	41.78	TOC
MW-2	2					25.98	41.88	↓
MW-3	2					25.50	44.01	
MW-4	2					26.00	42.97	
MW-5	2					26.73	32.02	









## SHELL WELL MONITORING DATA SHEET

BTS #: 050729-PC1	Site: 97464711
Sampler: PC	Date: 7/29/05
Well I.D.: MW-5	Well Diameter: ② 3 4 6 8
Total Well Depth (TD): 32.07	Depth to Water (DTW): 26.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>QVE</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.79	

Purge Method:  Bailer      Waterra      Sampling Method:  Bailer  
                          Disposable Bailer      Peristaltic      Disposable Bailer  
                          Positive Air Displacement      Extraction Pump      Extraction Port  
                          Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

$\underline{.8} \text{ (Gals.)} \times \underline{3} = \underline{2.4} \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <del>µS</del> )	Turbidity (NTUs)	Gals. Removed	Observations
1150	69.5	7.0	2988	>1000	.8	
1151	68.6	6.9	3145	>1000	1.6	
1152	68.2	6.9	3188	>1000	2.4	

Did well dewater? Yes  No  Gallons actually evacuated: 2.4

Sampling Date: 7/29/05      Sampling Time: 1200      Depth to Water: 27.78

Sample I.D.: MW-5      Laboratory: STL Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: TBA

EB I.D. (if applicable): @ \_\_\_\_\_ Time \_\_\_\_\_ Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV





GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

May 5, 2005

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

Second Quarter 2005 Groundwater Monitoring at  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Monitoring performed on April 14, 2005

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### Groundwater Monitoring Report **050414-MP-1**

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

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart  
Project Coordinator

LG/np

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

cc: Garrett Haertel  
Delta Environmental  
175 Bernal Road, Suite 200  
San Jose, CA 95119

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)
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MW-1	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	<2.0	<2.0	<2.0	<50	NA	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	343.48	31.59	311.89
MW-1	05/09/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	343.48	31.10	312.38
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	07/08/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	343.48	30.90	312.58
MW-1	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/03/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	343.48	29.89	313.59
MW-1	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.38	312.10
MW-1	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.71	313.77
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.72	313.76
MW-1	01/06/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	343.48	29.16	314.32
MW-1	04/06/2004	<1,300	NA	<13	<13	<13	<25	3,300	NA	NA	NA	3,500	343.48	31.38	312.10
MW-1	07/30/2004	<1,300	NA	<13	<13	<13	<25	1,000	NA	NA	NA	600	343.48	28.51	314.97
MW-1	10/07/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	530	NA	NA	NA	390	343.48	28.55	314.93
MW-1	01/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	320	<10	<10	<10	130	343.48	27.35	316.13
<b>MW-1</b>	<b>04/14/2005</b>	<b>&lt;150</b>	<b>NA</b>	<b>&lt;1.5</b>	<b>&lt;1.5</b>	<b>&lt;1.5</b>	<b>&lt;1.5</b>	<b>720</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>260</b>	<b>343.48</b>	<b>26.70</b>	<b>316.78</b>

MW-2	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	<2.0	<2.0	<2.0	<50	NA	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	342.86	30.30	312.56
MW-2	05/09/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	342.86	29.83	313.03
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)
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MW-2	07/08/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	342.86	29.86	313.00
MW-2	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88
MW-2	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/03/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	342.86	30.43	312.43
MW-2	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.79	313.07
MW-2	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.00	312.86
MW-2	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.14	312.72
MW-2	01/06/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	342.86	30.05	312.81
MW-2	04/06/2004	<2,000	NA	<20	<20	<20	<40	4,600	NA	NA	NA	5,100	342.86	29.30	313.56
MW-2	07/30/2004	<500	NA	<5.0	<5.0	<5.0	<10	1,000	NA	NA	NA	950	342.86	28.80	314.06
MW-2	10/07/2004	<2,500	NA	<25	<25	<25	<50	6,300	NA	NA	NA	6,500	342.86	28.02	314.84
MW-2	01/26/2005	<1,300	NA	<13	<13	<13	<25	2,100	<50	<50	<50	2,300	342.86	33.12	309.74
<b>MW-2</b>	<b>04/14/2005</b>	<b>&lt;500</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>2400</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1100</b>	<b>342.86</b>	<b>25.55</b>	<b>317.31</b>

MW-3	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	<20	<20	<20	1,500	NA	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	342.23	30.76	311.47
MW-3	05/09/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	342.23	30.04	312.19
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	07/08/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	342.23	30.11	312.12
MW-3	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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-3	10/03/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	342.23	29.97	312.26
MW-3	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.97	312.26
MW-3	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.43	312.80
MW-3	01/06/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	342.23	29.25	312.98
MW-3	04/06/2004	<5,000	NA	<50	<50	<50	<100	4,200	NA	NA	NA	2,100	342.23	28.82	313.41
MW-3	07/30/2004	<2,500	NA	<25	<25	<25	<50	3,000	NA	NA	NA	1,200	342.23	28.73	313.50
MW-3	10/07/2004	<1,000	NA	<10	<10	<10	<20	860	NA	NA	NA	320	342.23	28.72	313.51
MW-3	01/26/2005	<500	NA	<5.0	<5.0	<5.0	<10	820	<20	<20	<20	250	342.23	26.50	315.73
<b>MW-3</b>	<b>04/14/2005</b>	<b>&lt;400</b>	<b>NA</b>	<b>&lt;4.0</b>	<b>&lt;4.0</b>	<b>&lt;4.0</b>	<b>&lt;4.0</b>	<b>2200</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>590</b>	<b>342.23</b>	<b>26.15</b>	<b>316.08</b>

MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	32.20	NA
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	343.44	32.07	311.37
MW-4	05/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	343.44	31.35	312.09
MW-4	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	07/08/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	343.44	31.42	312.02
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29
MW-4	10/03/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30
MW-4	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.92	312.52
MW-4	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.82	312.62
MW-4	01/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	343.44	30.24	313.20

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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-4	04/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	16	NA	NA	NA	<5.0	343.44	30.10	313.34
MW-4	07/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	25	NA	NA	NA	<5.0	343.44	29.75	313.69
MW-4	10/07/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	35	NA	NA	NA	<5.0	343.44	29.79	313.65
MW-4	01/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	450	<10	<10	<10	43	343.44	27.60	315.84
<b>MW-4</b>	<b>04/14/2005</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>210</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>343.44</b>	<b>27.40</b>	<b>316.04</b>

MW-5	02/08/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340.88	26.83	314.05
MW-5	02/10/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	5.1	<2.0	<2.0	<2.0	<5.0	340.88	27.13	313.75
<b>MW-5</b>	<b>04/14/2005</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>340.88</b>	<b>26.44</b>	<b>314.44</b>

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

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

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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 or Tertiary butanol, 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:

Site surveyed November 22, 2002 by Mid Coast Engineers.

MW-5 surveyed January 31, 2005 by Mid Coast Engineers of Watsonville, CA.



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March 3, 2004  
Project SJ67-50S-1.2004

Mr. Scott O. Seery  
Alameda County Health Care Services  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Cone Penetration Test (CPT) Groundwater Investigation  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California**

Dear Mr. Seery:

Delta Environmental Consultants, Inc. (Delta), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), has prepared this Cone Penetration Test (CPT) Groundwater Investigation report for the site referenced above (Figure 1). Work was performed in accordance with a work plan prepared by Delta, dated May 15, 2003. In a letter to the Alameda County Health Care Services Agency (ACHCSA), dated October 28, 2003, Delta stated that they had received no response to their work plan, and were proceeding with the proposed groundwater investigation.

## **BACKGROUND**

The following section provides a brief summary of previous site data.

### **SITE DESCRIPTION**

The subject site is located in a commercial area on the southeast corner of Santa Rita Road and Pimlico Drive in Pleasanton, California (Figure 1). The property is the site of an active Shell service station, consisting of a small convenience store, a storage and restroom building, a car wash, ten fuel dispensers, and four underground fuel storage tanks (USTs). The station layout is shown on Figure 2.

Topographically, the immediate site area is fairly flat, at approximately 350 feet above mean sea level (MSL). The groundwater gradient at the site was anticipated to be towards the west-southwest, based on local topography (USGS Livermore topographic quadrangle). Quarterly gauging of four on-site groundwater monitoring wells since December 2002 has confirmed a fairly consistent southwest gradient at the site.



### **SENSITIVE RECEPTOR STUDY**

In December 2003, Delta performed a sensitive receptor survey field reconnaissance of the site area. Two water supply wells were identified within approximately 3,000 feet of the site (Figure 1). A private well (located in the parking lot of a car storage business) was identified at approximately 2,200 feet southwest of the site. This well is designated as Well 3S/1E 5R1 by the Zone 7 Water Resources Management District (Zone 7). The well is 8-inches in diameter, and has a submersible pump and an adjacent, approximately 100 gallon pressure tank. The depth of the well is reported to be 101 feet.

A municipal water supply well was field located approximately 3,200 feet southeast of the site. The well is designated as Well No. 0110010-010 (Zone 7 Stoneridge Well) by the State Water Resources Control Board (SWRCB) on-line Geotracker database, and as Well 3S/1E 9B 1 by Zone 7. Mr. Wyman Hong of Zone 7 told Delta that the first well screen is 250 feet below ground surface (bgs).

A Zone 7 flood control channel is located about 1,500 feet east-southeast of the site. No other surface water bodies, or sensitive receptors, were identified within ½-mile of the site.

### **PREVIOUS SITE INVESTIGATIONS**

#### **GRASP**

On October 8 and 9, 2002, KHM Environmental Management, Inc. (now part of Delta) supervised the drilling and installation of four groundwater monitoring wells (MW-1 through MW-4) as part of Shell's GROUNDwater ASsessment Program (GRASP). GRASP is a voluntary initiative by SHELL to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more sensitive receptors. Site monitoring well locations are shown on Figure 2.

Wells MW-1 through MW-4 are each approximately 44 feet deep, and screened from approximately 29 feet to 44 feet below grade (bg). Borings for Wells MW-1 through MW-4 primarily encountered clays, with inter-bedded sand layers below a depth of approximately 30 feet bg. Groundwater was encountered in the borings at an average depth of approximately 33 feet bg. During well installations, soil samples were collected and retained for laboratory analysis. No petroleum hydrocarbons or fuel oxygenates were detected in the soil samples submitted for analysis.

Initial groundwater samples were collected on December 20, 2002. Based on the detection of methyl tert-butyl ether (MTBE) (8,000 ug/l) and tert-butanol (TBA) (1,500 ug/l) in the initial samples, Shell submitted an Unauthorized Release Report (URR) to the Livermore-Pleasanton Fire Department, dated January 6, 2003. In response to the URR, the ACHCSA requested that Shell submit a work plan to obtain further vertical and horizontal plume definition.

#### **FUEL SYSTEM REMOVAL/REPLACEMENT**

In November 2002, site USTs, fuel dispensers, and associated product piping were removed and replaced with an upgraded system. Delta performed soil sampling during the upgrade activities under the direction of Mr. Paul Smith of the Livermore-Pleasanton Fire Department. MTBE and TBA were detected in soil and groundwater samples collected from beneath the USTs. The maximum MTBE and TBA concentrations in the soil samples from the base of the UST excavation were 2.5 milligrams per kilogram (mg/kg) and 6.1 mg/kg, respectively.

Groundwater observed in the UST excavation was collected and submitted by Delta for laboratory analysis. MTBE was detected in two water samples at concentrations of 11,000 ug/l and 8,000 ug/l. Total petroleum hydrocarbons as gasoline (TPH-G) and total petroleum hydrocarbons as diesel (TPH-D) were also detected in the water samples, at maximum concentrations of 9,300 ug/l and 55,000 ug/l, respectively. Approximately 17,000 gallons of water was pumped from the UST excavation into a 20,000 gallon Baker tank, which was transported to Shell's Martinez, California refinery for recycling.

#### **GROUNDWATER MONITORING PROGRAM**

Site wells have been gauged and sampled six times since their installation in October 2002. Quarterly monitoring reports have been routinely submitted to the ACHCSA. Oxygenates, MTBE and TBA, have been consistently detected in all four site wells (with the exception of Well MW-4, which has no TBA detections to date). Historic maximum MTBE and TBA concentrations at the site are 15,000 ug/l and 9,300 ug/l (MW-3), respectively. In May 2003, Delta implemented monthly groundwater batch extraction from Wells MW-2 and MW-3 as an interim remedial action. Current maximum MTBE and TBA concentrations in groundwater samples collected in January 2004 are 9,800 ug/l and 3,800 ug/l (MW-3), respectively.

### **CPT GROUNDWATER INVESTIGATION**

#### **CPT BORINGS**

In order to define the vertical extent of the fuel oxygenate impact at the site, Delta directed three CPT borings (CPT-1 through CPT-3) on December 18<sup>th</sup> and 19<sup>th</sup>, 2003. Boring locations are shown on Figure 2. Boring CPT-1 was located near the zone of greatest groundwater impact (Well MW-3). Borings CPT-2 and CPT-3 were located off-site to define the horizontal extent of fuel oxygenates in the downgradient direction. The borings were completed under permit from Zone 7. A copy of the permit is included as Attachment A.

Each of the three CPT locations consisted of two separate boreholes – one for stratigraphic profiling, and a second for collecting discrete groundwater samples. Prior to CPT drilling and sampling, the three locations were surveyed by a geophysical locator and marked for nearby underground utilities. Underground Services Alert (USA) was notified of the proposed borings a minimum of 48-hours before Delta began work at the site. Lastly, each borehole was air-excavated to approximately 7 feet bg in order to minimize potential damage to any unmarked underground utilities.

The CPT borings were advanced by Gregg In Situ, Inc. (Gregg) using an integrated electronic cone system. Gregg's *Presentation of Cone Penetration Test Data* report is included as Attachment B. Boring CPT-1 was pushed to a maximum depth of 117 feet bg. Borings CPT-2 and CPT-3 were pushed to maximum depths of 105 feet bg and 104 feet bg, respectively. The cone was pushed with a maximum 20 ton down pressure applied by the rig. The cone sensor measured penetration resistance, sleeve friction and pore pressure. These parameters were recorded and displayed simultaneously as the borings were advanced. Soil classification is based on a ratio that compares sleeve friction to penetration resistance. Pore pressure readings measure hydrostatic pressure, and are indicative of soil permeability. An initial soil classification print out and pore pressure graphs for each boring were interpreted by a Delta field geologist in order to determine appropriate depths at which to collect groundwater samples. Following soil profiling and interpretation, each boring was backfilled with cement grout by retraction grouting utilizing a detachable "grout collar" located near the cone tip (Attachment C).

Groundwater samples were collected using a Hydropunch® groundwater sampling system. At the depths indicated by the field geologist on site, the CPT rods were retracted exposing a PVC filter screen which allowed for groundwater infiltration. A stainless steel bailer, lowered through the rods, was then used to collect a groundwater sample from within the screened interval. Delta collected up to three discrete groundwater samples at various depths within each sampling borehole. Upon sample completion, each Hydropunch® borehole was tremmie filled with cement grout through the push rods.

## **HYDROGEOLOGY**

The CPT borings predominantly encountered fine-grained clayey and silty soils to the total depths explored. Interbedded, thin (< 5 ft thick) sandy units were encountered below a depth of approximately 45 feet in all three borings. The most sand layers were encountered at depths between approximately 45 feet and 55 feet bg (“50-foot aquifer”). A thin, but pervasive silty bed (< 3 feet thick) underlies the sand. A geologic cross-section is included as Figure 3.

Identified sandy zones were selected for Hydropunch® sampling. These zones potentially could provide for the migration of fuel oxygenates and petroleum hydrocarbons within coarse-grained preferential pathways. In Boring CPT-1 two groundwater samples were collected at the apparent sandy intervals of 56 to 59 feet bg, and 70 to 75 feet bg. Three groundwater samples were collected from Boring CPT-2 at the intervals of 47 to 51 feet bg, 80 to 85 feet bg and 98 to 103 feet bg. Three groundwater samples were also collected from Boring CPT-3 at the intervals of 46 to 51 feet bg, 72 to 75 feet bg and 97 to 100 feet bg. Groundwater samples were decanted into 40-milliliter glass VOA bottles, and placed on ice for transportation to a testing laboratory.

## **GROUNDWATER ANALYSIS**

Groundwater samples were submitted to Severn Trent Laboratories, Inc. (STL) in Pleasanton, California for analysis of the following parameters: TPH-G, benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), MTBE, di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and tert-amyl methyl ether (TAME), and TBA by Method 8260B; and TPH-D by Method 8015M. MTBE was detected in Sample CPT-3 @ 46 at a concentration of 18 ug/l. MTBE was not detected in any other CPT groundwater samples. TPH-D was detected in Samples CPT-1 @ 56, CPT-1 @ 70, CPT-2 @ 47 and CPT-3 @ 97 at concentrations ranging from 73 ug/l to 300 ug/l. The hydrocarbons reported as TPH-D were within the early diesel range, and therefore did not match the laboratory standard for diesel. All other analytes were below the method detection limits in all groundwater samples. Groundwater analytical data is summarized in Table 1. Groundwater certified analytical results and chain-of-custody documentation from the testing laboratory are included as Attachment D. MTBE concentrations in groundwater are included on Figure 2.

## **CONCLUSIONS**

Delta concludes:

- Site area soils are characterized as predominantly fine-grained, and act to retard the horizontal and downward movement of fluids.
- First encountered groundwater is located within a sandy aquifer (< 5 feet thick) identified at approximately 50 feet bg.
- Fuel oxygenates have impacted the shallow groundwater zone.

- A fine-grained silt layer underlying the 50-foot aquifer acts as an aquitard to further vertical migration of fuel oxygenates from within the shallow groundwater.
- MTBE (comparatively low level) was detected in only one downgradient water sample, collected approximately 80 feet downgradient.
- The petroleum hydrocarbon plume appears to be concentrated on-site within the station property.
- Interim remedial actions appear to have prevented the plume from moving downgradient.
- The plume is not considered to be a threat to the nearest municipal water supply well based on the presence of an extensive fine-grained soil package (> 40 feet thick) between the impacted shallow groundwater zone, and the aquifer screened by the municipal well at 250 feet bg and approximately 3,000 ft southeast of the site.

## **RECOMMENDATIONS**

Delta recommends:

- Continued quarterly monitoring of site wells. Groundwater samples will be analyzed for TPH-G, BTEX compounds, and the five fuel oxygenates.
- Installation of a downgradient well (Well MW-5) in order to monitor the 50-foot aquifer near the location of Boring CPT-3 (Figure 2).

## **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.

March 3, 2004

Page 6

If you have any questions or comments regarding this report, please call us at (408) 224-4724.

Sincerely,

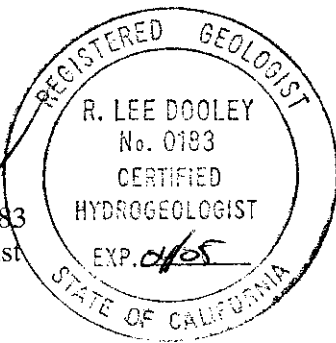
**Delta Environmental Consultants, Inc.**



Debbie Arnold  
Project Geologist



R. Lee Dooley, CHG 183  
Certified Hydrogeologist



**ATTACHMENTS:**

**TABLES:**

Table 1 – Summary of Groundwater Analytical Data

**FIGURES:**

Figure 1 – Site Location and Well Survey Map

Figure 2 – Site Area Map

Figure 3 – Geologic Cross-section

**ATTACHMENTS:**

Attachment A – Drilling Permits

Attachment B – Presentation of Cone Penetration Test Data (Gregg)

Attachment C – Retraction Grouting

Attachment D – Certified Groundwater Analytical Report and Chain-of-Custody Documents

cc: Karen Petryna, Shell Oil Products US, Carson  
Danielle Stefani, Livermore-Pleasanton Fire Department, Livermore  
Betty Graham, RWQCB, Oakland  
Matt Katen, Zone 7 Water Agency, Pleasanton

## **Tables and Figures**

---

**Table 1**  
**Summary of Groundwater Data**  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California

Sample Designation	Date Sampled	TPH-g (ug/l)	TPH-d (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethlybenzene (ug/l)	Xylene (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)
<b>CPT-1 @ 56</b>	12/18/2003	<50	<b>130*</b>	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-1 @ 70</b>	12/18/2003	<50	<b>300*</b>	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-2 @ 47</b>	12/19/2003	<50	<b>90*</b>	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-2 @ 80</b>	12/19/2003	<50	<260	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-2 @ 98</b>	12/19/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-3 @ 46</b>	12/18/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<b>18</b>	<2.0	<2.0	<2.0	<5.0
<b>CPT-3 @ 72</b>	12/18/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-3 @ 97</b>	12/19/2003	<50	<b>73*</b>	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0

**Notes:**

All analysis performed by EPA Method 8260B, except TPH-D by EPA Method 8015

ug/l = micrograms per liter

TPH-G = Total petroleum hydrocarbons as gasoline

TPH-D = Total petroleum hydrocarbon as diesel

MTBE = Methyl tert-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl-t-butyl ether

TAME = Tert-amyl methyl ether

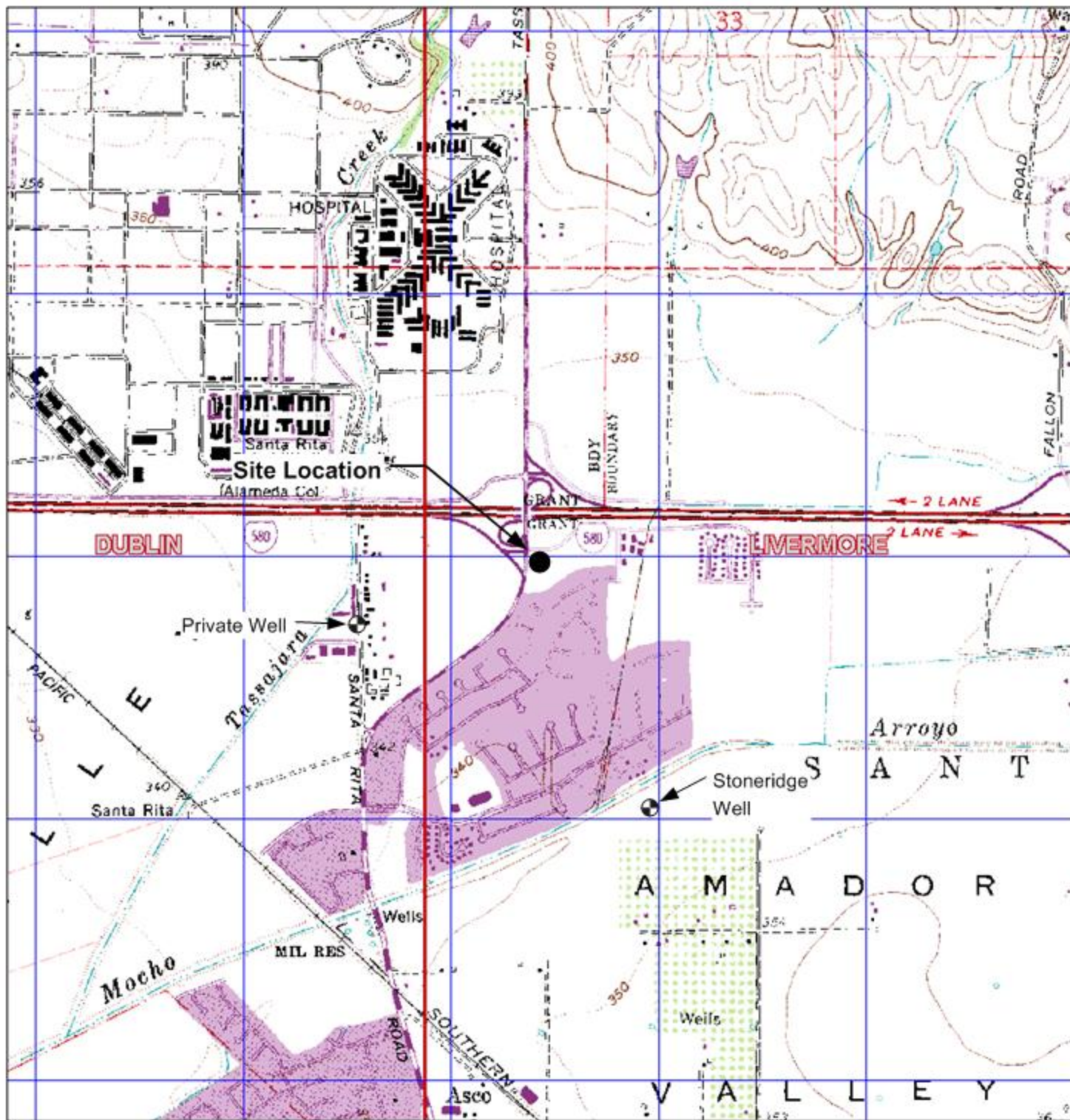
TBA = Tert-Butanol

TOC = Top of Well Casing

NM = Not measured

NA = Not analyzed

**\*Hydrocarbon reported is in the early diesel range, and does not match the laboratory's diesel standard**



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



QUADRANGLE LOCATION



Scale, Feet

FIGURE 1  
 SITE LOCATION AND WELL SURVEY MAP  
 SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF 12/04/03
FILE NO. SJ67-50S-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY







**LEGEND**

CPT-1 ⊕ **CPT BORINGS**

MW-5 ⊕ **PROPOSED GROUNDWATER MONITORING WELL**

MW-1 ● **EXISTING GROUNDWATER MONITORING WELL**

(18 ug/l) **MTBE CONCENTRATION IN 50-FOOT GROUNDWATER ZONE (MONITORING WELLS SAMPLED ON 1/6/04) (HYDROPUNCH SAMPLES COLLECTED ON 12/18-19/03)**

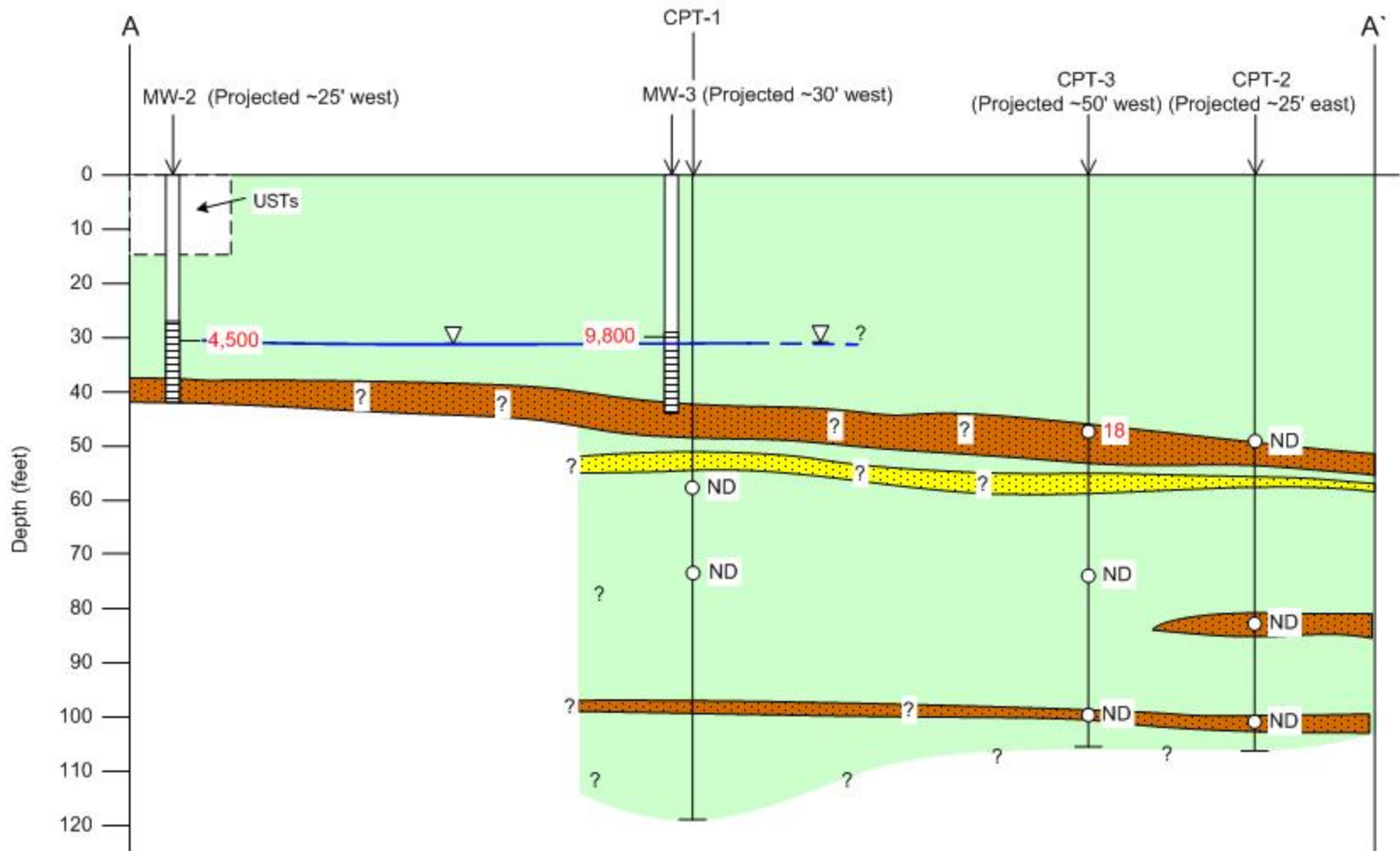
A — A' **LINE OF GEOLOGIC CROSS-SECTION**



**FIGURE 2**  
**SITE AREA MAP**  
**SHELL BRANDED SERVICE STATION**  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF
FILE NO. SJ67-50S-1.2001	PREPARED BY
REVISION NO. 2	REVIEWED BY





**LEGEND**

- GROUNDWATER MONITORING WELL**
- WELL SCREEN INTERVAL**
- CPT BORING**
- HYDROPUNCH WATER SAMPLE**
- MTBE CONCENTRATION (UG/L)**
- NOT DETECTED AT LABORATORY REPORTING LIMIT**
- WATER TABLE, 1/6/04**

- SILTY AND CLAYEY SOILS**
- SANDS AND SILTY SANDS**
- SILTY SANDS AND SANDY SILTS**



**FIGURE 3**  
**GEOLOGIC CROSS-SECTION**  
**SHELL-BRANDED SERVICE STATION**  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY V. F. 2/17/04
FILE NO. SJ67-50S-1.2004	PREPARED BY V. F.
REVISION NO. 1	REVIEWED BY

**Delta**  
Environmental  
Consultants, Inc.

**Attachment A**  
**DRILLING PERMITS**

---



# 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 6750 Santa Rita Rd.  
Pleasanton, CA and 6700 Santa Rita Rd.  
Pleasanton, CA

PERMIT NUMBER 23154  
WELL NUMBER \_\_\_\_\_  
APN 946-1101-037-00 & 946-1101-039-00

California Coordinates Source \_\_\_\_\_ Accuracy ± \_\_\_\_\_ ft.  
CCN \_\_\_\_\_ ft. CCE \_\_\_\_\_ ft.  
APN 946-1101-37 and 946-1101-39

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT  
Name Shell Oil Products US  
Address P.O. Box 7869 Phone 5597045-9300  
City Borwick CA Zip 94510

- 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 Management  
Address 175 Bernal Rd. Ste. 200 Fax (408) 225-8506  
City San Jose CA Phone (408) 224-4724 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 ..  
Cathodic Protection .. Other ..

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
  1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
  3. Grout placed by tremie.

PROPOSED WELL USE:  
Domestic .. Irrigation ..  
Municipal .. Remediation ..  
Industrial .. Groundwater Monitoring ..  
Dewatering .. Other \_\_\_\_\_ ..

- D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION. See attached.
- G. SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

DRILLING METHOD:  
Mud Rotary .. Air Rotary .. Hollow Stem Auger ..  
Cable Tool .. Direct Push .. Other CPT ..

DRILLING COMPANY Gregs Drilling and Testing  
DRILLER'S LICENSE NO. C57-485165

WELL SPECIFICATIONS:  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_ ft.  
Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Surface Seal Depth \_\_\_\_\_ ft. Number \_\_\_\_\_

SOIL BORINGS:  
Number of Borings 12 Maximum \_\_\_\_\_ ft.  
Hole Diameter 3 in in. Depth 125 ft.

ESTIMATED STARTING DATE Dec. 1, 2003  
ESTIMATED COMPLETION DATE Dec 5, 2003

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

Approved Wynmah Hong Date 11/14/03  
Wynmah Hong

APPLICANT'S SIGNATURE Rebecca Wolff Date 11-7-03

ATTACH SITE PLAN OR SKETCH

**Attachment B**

---

**PRESENTATION OF CONE PENETRATION TEST DATA**

**PRESENTATION OF CONE PENETRATION TEST DATA**

**6750 SANTA RITA ROAD**

**PLEASANTON, CALIFORNIA**

**Prepared for:**

**DELTA ENVIRONMENTAL**

**Prepared by:**

**GREGG IN SITU, INC.  
Martinez, California  
03-399ma**

**Prepared on:**

**January 6, 2004**

## TABLE OF CONTENTS

### 1.0 INTRODUCTION

### 2.0 FIELD EQUIPMENT & PROCEDURES

### 3.0 CONE PENETRATION TEST DATA & INTERPRETATION

#### 3.1 CPT PLOTS

#### 3.2 INTERPRETED OUTPUT

#### 3.3 PORE PRESSURE DISSIPATION PLOTS

### APPENDIX

- Figure 1 Piezocone Figure
- Figure 2 Groundwater Sampler
- Figure 3 PPDT Correlation Figure
- Figure 4 Soil Classification Chart
- References

### ATTACHMENTS

- Interpretation Method
- Computer Diskette with ASCII Files

# PRESENTATION OF CONE PENETRATION TEST DATA

## 1.0 INTRODUCTION

This report presents the results of a Cone Penetration Testing (CPT) and in situ groundwater sampling program carried out at the site located at 6750 Santa Rita Road in Pleasanton, CA. The work was performed on December 18<sup>th</sup> and 19<sup>th</sup>, 2003. The scope of work was performed as directed by Delta Environmental personnel.

## 2.0 FIELD EQUIPMENT & PROCEDURES

The Cone Penetration Tests (CPT) were carried out by GREGG IN SITU, INC. of Martinez, CA using an integrated electronic cone system. The CPT soundings were performed in accordance with ASTM standards (D 5778-95). A 20 ton capacity cone was used for all of the soundings (figure 1). This cone has a tip area of 15 cm<sup>2</sup> and friction sleeve area of 225 cm<sup>2</sup>. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cones used during the program recorded the following parameters at 5 cm depth intervals:

- Tip Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (U)

The above parameters were printed simultaneously on a printer and stored on a computer diskette for future analysis and reference.

The pore water pressure element was located directly behind the cone tip. The pore water pressure element was 5.0 mm thick and consisted of porous plastic. Each of the elements were saturated in silicon oil under vacuum pressure prior to penetration. Pore pressure dissipations were recorded at 5 second intervals when appropriate during pauses in the penetration.

A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

The cones were pushed using GREGG IN SITU's CPT rig, having a down pressure capacity of approximately 20 tons. Three CPT soundings were performed. The penetration tests were carried to depths of approximately 117 feet below ground surface. Test locations and depths were determined in the field by Delta Environmental personnel.



**GREGG IN SITU, INC.**

January 6, 2004  
03-399ma

DELTA ENVIRONMENTAL

6750 Santa Rita Road  
Pleasanton, Ca.

In situ groundwater samples were taken at three locations. Groundwater samples were collected using a Hydropunch® type groundwater sampling system (figure 2). The groundwater sampler operates by pushing 1.75 inch diameter hollow rods with a retrievable tip. A stainless steel filter screen is attached to the tip. At the desired sampling depth, the rods are retracted exposing the filter screen and allowing for groundwater infiltration. A small diameter bailer is then used to collect groundwater samples through the hollow rod.

### **3.0 CONE PENETRATION TEST DATA & INTERPRETATION**

The cone penetration test data is presented in graphical form. Penetration depths are referenced to existing ground surface. This data includes CPT logs of measured soil parameters and a computer tabulation of interpreted soil types along with additional geotechnical parameters and pore pressure dissipation data.

The stratigraphic interpretation is based on relationships between cone bearing ( $q_c$ ), sleeve friction ( $f_s$ ), and penetration pore pressure ( $U$ ). The friction ratio ( $R_f$ ), which is sleeve friction divided by cone bearing, is a calculated parameter which is used to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone bearing and generate large excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little in the way of excess pore water pressures.

Pore Pressure Dissipation Tests (PPDT's) were taken at various intervals in order to measure hydrostatic water pressures and approximate depth to groundwater table. In addition, the PPDT data can be used to estimate the horizontal permeability ( $k_h$ ) of the soil. The correlation to permeability is based on the time required for 50 percent of the measured dynamic pore pressure to dissipate ( $t_{50}$ ). The PPDT correlation figure (figure 3) is provided in the Appendix.

The interpretation of soils encountered on this project was carried out using recent correlations developed by Robertson et al, 1990. It should be noted that it is not always possible to clearly identify a soil type based on  $q_c$ ,  $f_s$  and  $U$ . In these situations, experience and judgement and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type. The soil classification chart (figure 4) used to interpret soil types based on  $q_c$  and  $R_f$  is provided in the Appendix.

Interpreted output requires that depth of water be entered for calculation purposes, where depth to water is unknown an arbitrary depth in excess of 10 feet of the deepest sounding is entered as the groundwater depth.

**GREGG IN SITU, INC.**

January 6, 2004

03-399ma

DELTA ENVIRONMENTAL

6750 Santa Rita Road

Pleasanton, Ca.

We hope the information presented is sufficient for your purposes. We recommend that all data be carefully reviewed by qualified personnel to verify the data and make appropriate recommendations. If you have any questions, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,

GREGG IN SITU, INC.

Mary Walden  
Operations Manager

**APPENDIX**

# ELECTRICAL PIEZOCONE

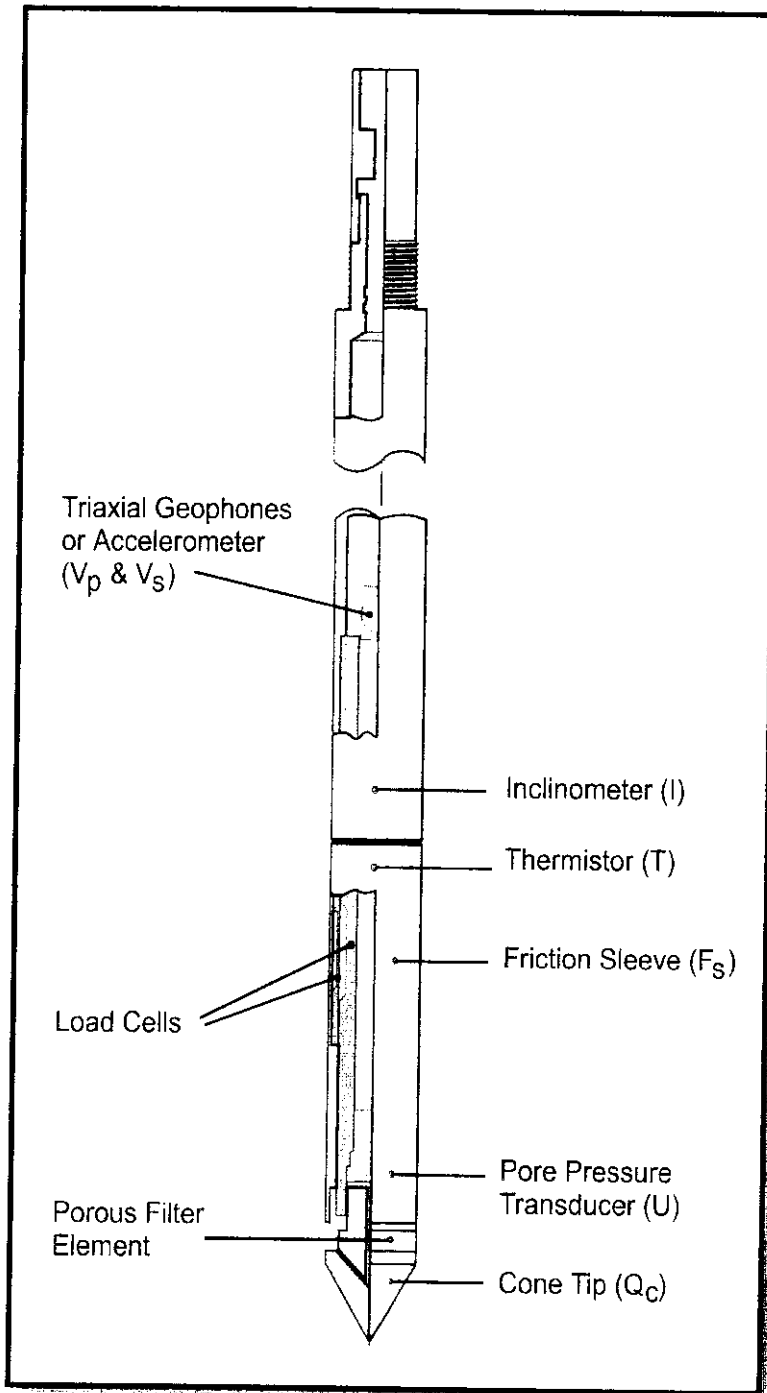


Figure 1

# GROUNDWATER SAMPLER (HYDROPUNCH)

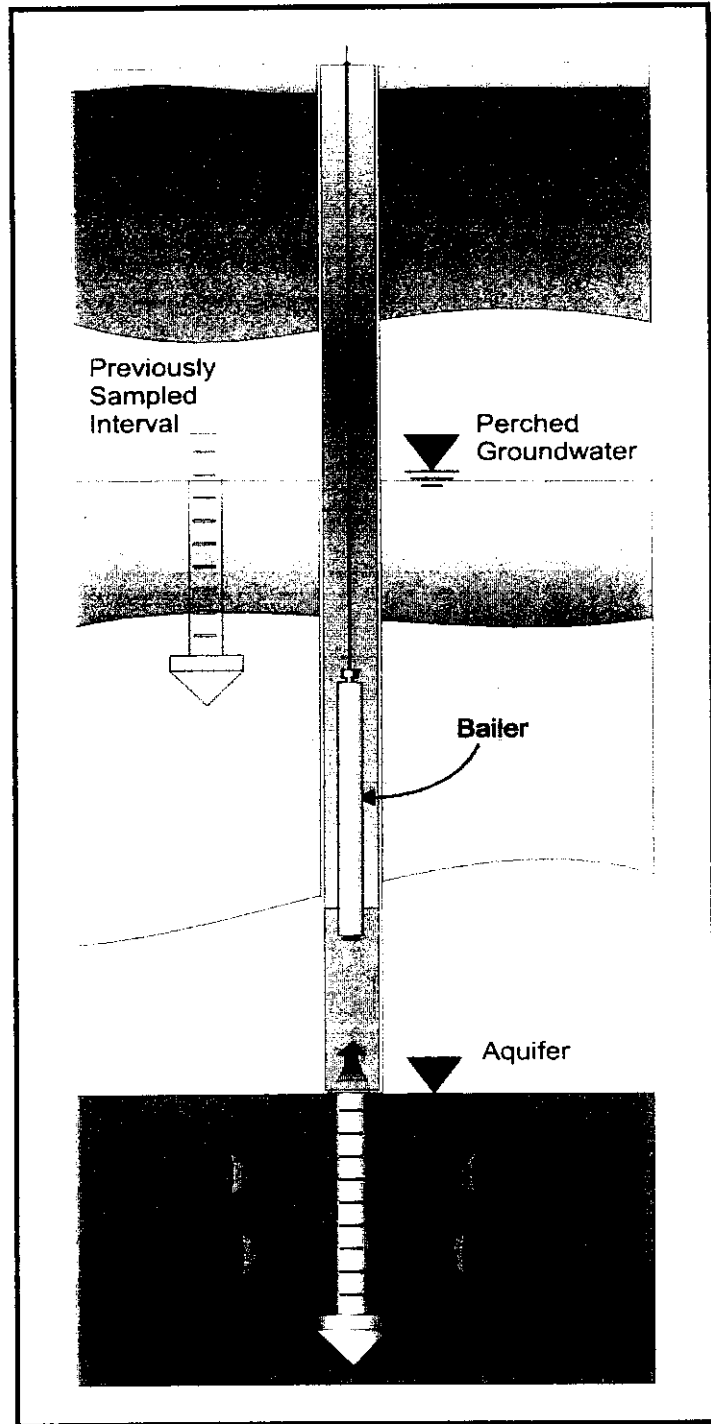


Figure 2

# PPDT CORRELATION

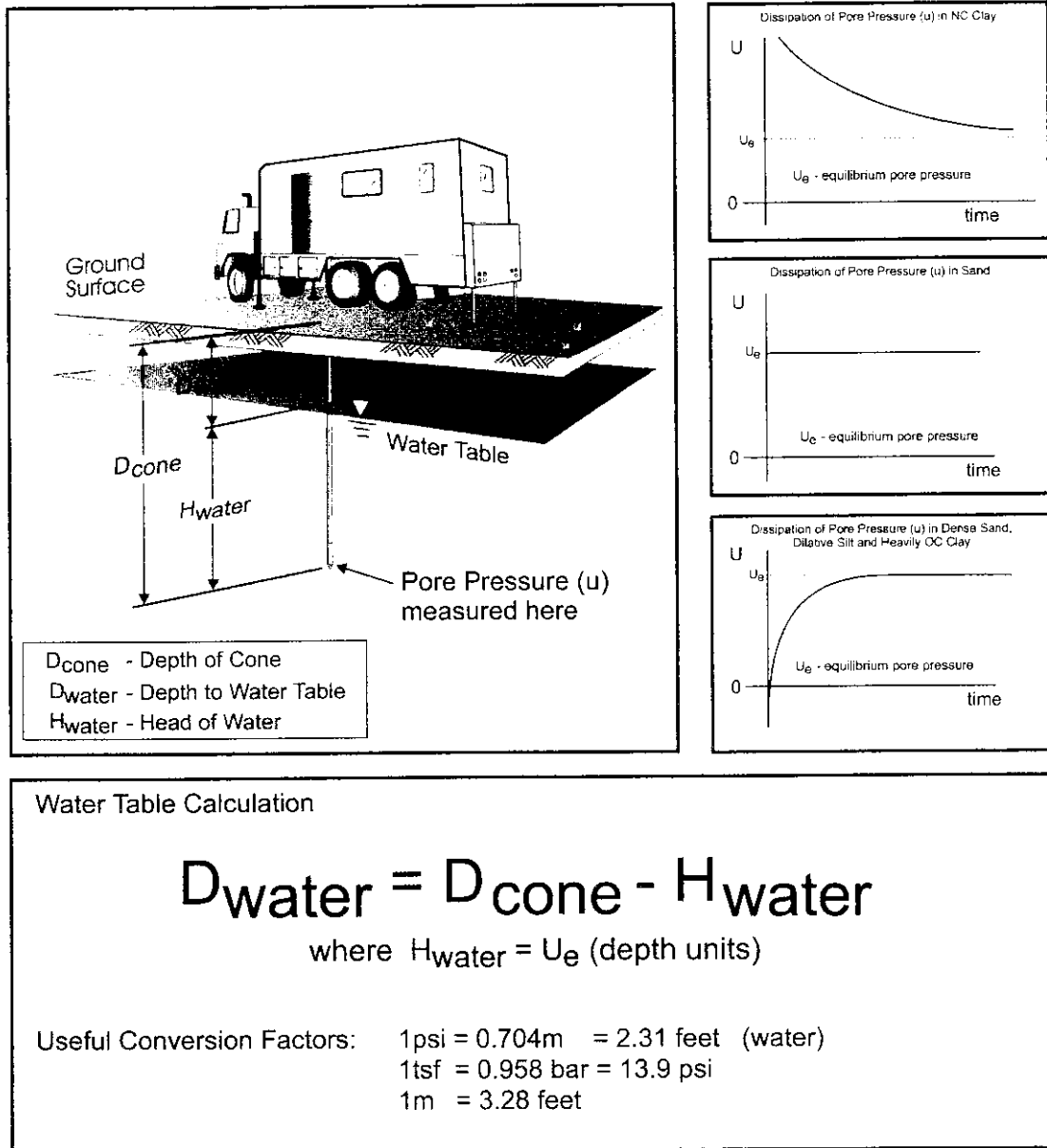
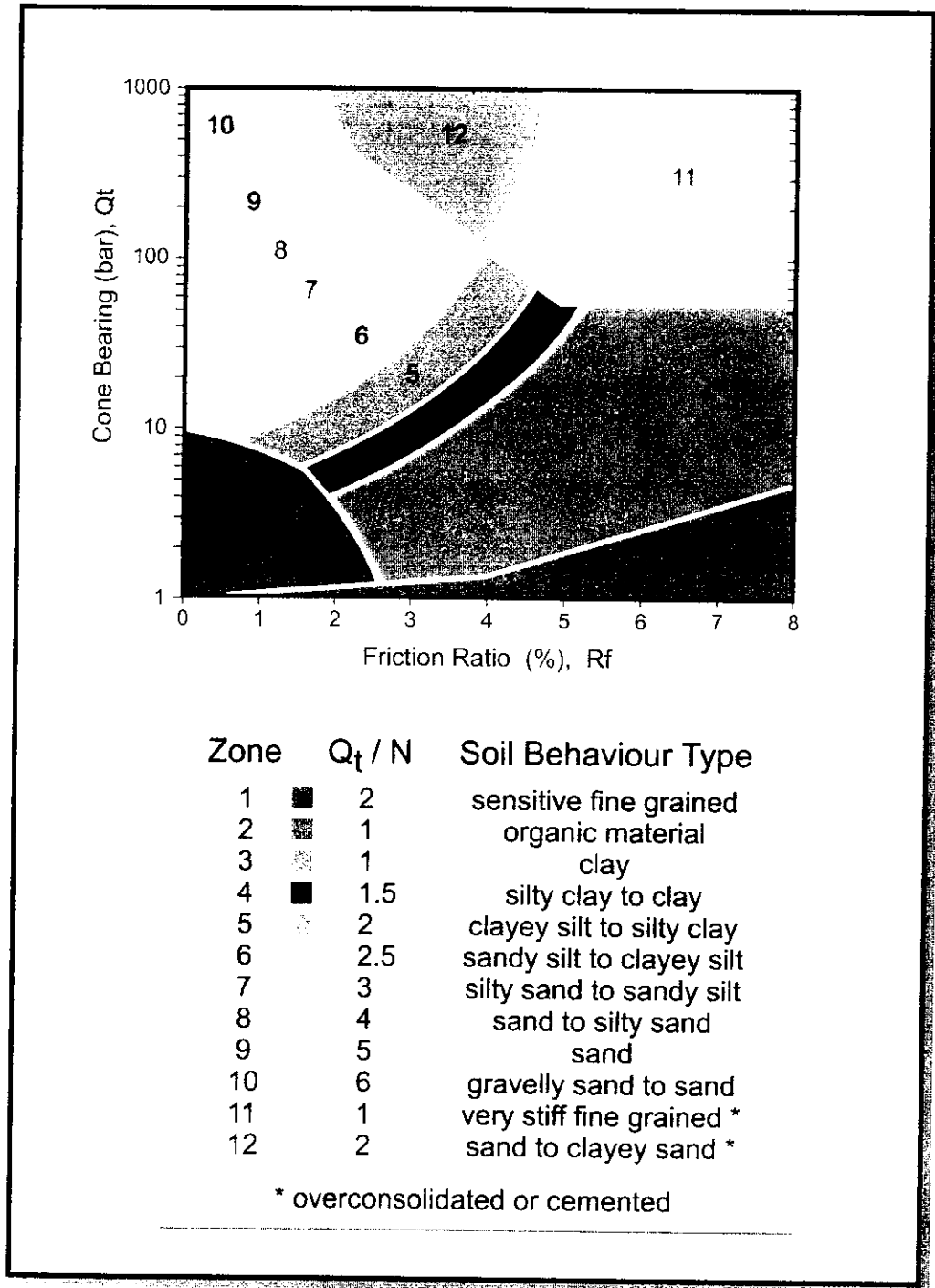


Figure 3

# SOIL CLASSIFICATION CHART



After Robertson and Campanella

Figure 4

## REFERENCES

- Robertson, P.K. and Campanella, R.G. and Wightman, A., 1983 "SPT-CPT Correlations", Journal of the Geotechnical Division, ASCE, Vol. 109, No. GT11, Nov., pp. 1449-1460.
- Robertson, P.K. and Wride C.E., 1998 "Evaluating Cyclic Liquefaction Potential Using The Cone Penetration Test", Journal of Geotechnical Division, Mar. 1998, pp. 442-459.
- Robertson, P.K. and Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of In Situ 86, ASCE Specialty Conference, Blacksburg, Virginia.
- Robertson, P.K. and Campanella, R.G., 1988, "Guidelines for Use, Interpretation and Application of the CPT and CPTU", UBC, Soil Mechanics Series No. 105, Civil Eng. Dept., Vancouver, B.C., V6T 1W5, Canada.
- Robertson, P.K., Campanella, R.G., Gillespie, D. and Rice, A., 1986, "Seismic CPT to Measure In Situ Shear Wave Velocity", Journal of Geotechnical Engineering, ASCE, Vol. 112, No. 8, pp. 791-803.



## 3.1 CPT PLOTS

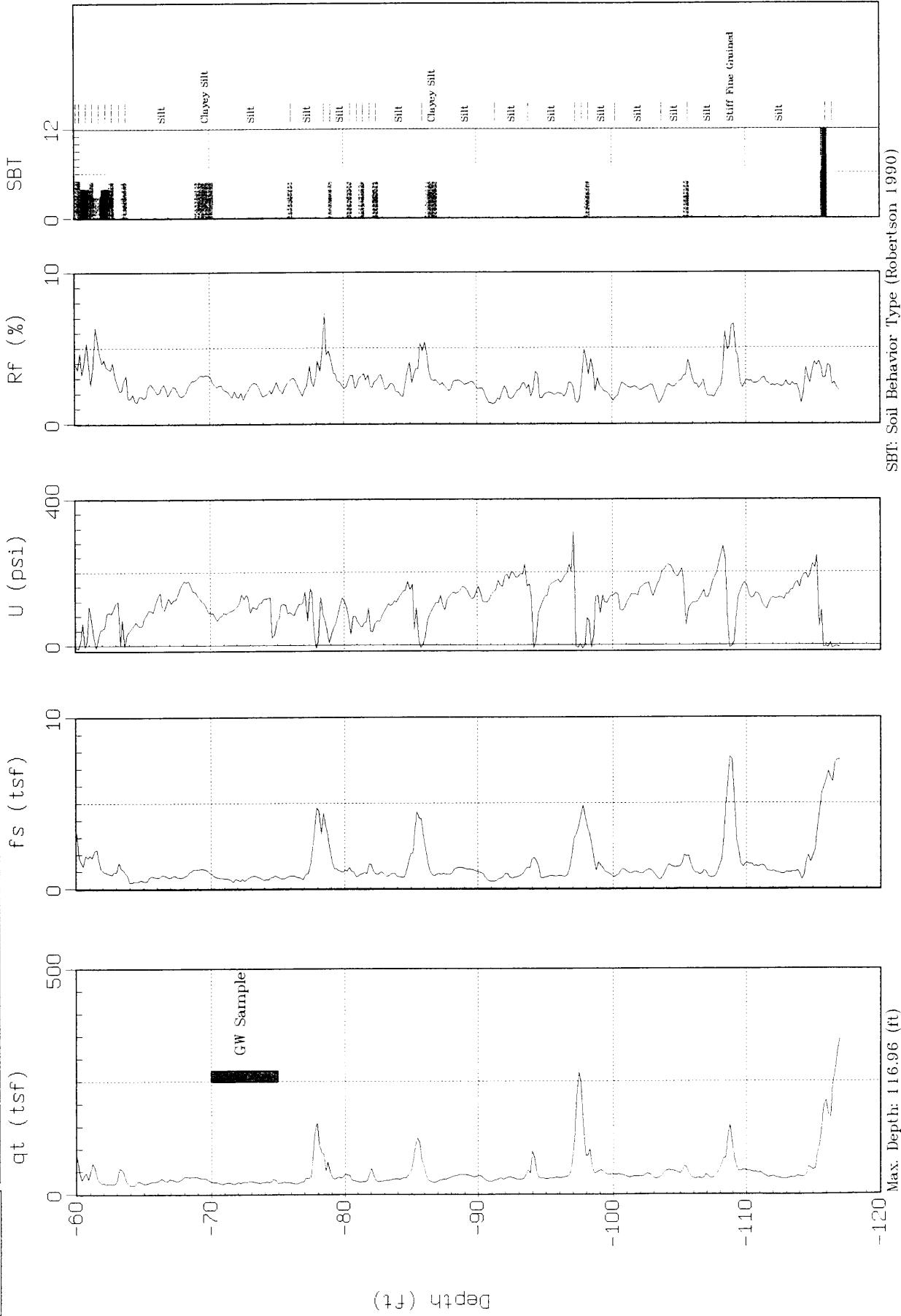




# DELTA

Site : 6750 SANTA RITA  
Location : CPT-01

Geologist : D. ARNOLD  
Date : 12:18:03 08:33



SBT: Soil Behavior Type (Robertson 1990)

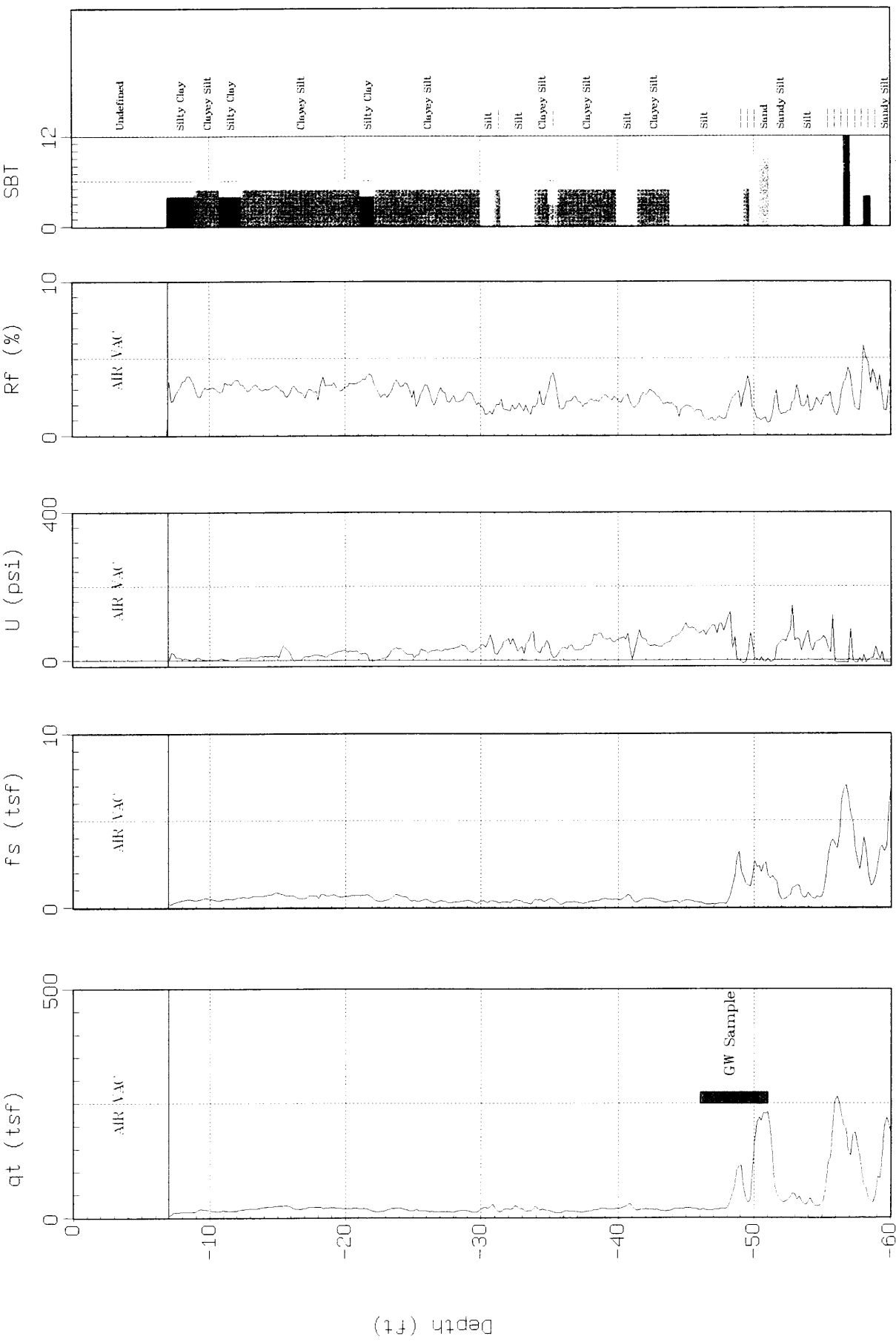
Max. Depth: 116.96 (ft)  
Depth Inc.: 0.164 (ft)



# DELTA

Site : 6750 SANTA RITA  
Location : CPT-02

Geologist : D. ARNOLD  
Date : 12:19:03 09:54



SBT: Soil Behavior Type (Robertson 1990)

Max. Depth: 105.15 (ft)

Depth Inc.: 0.164 (ft)

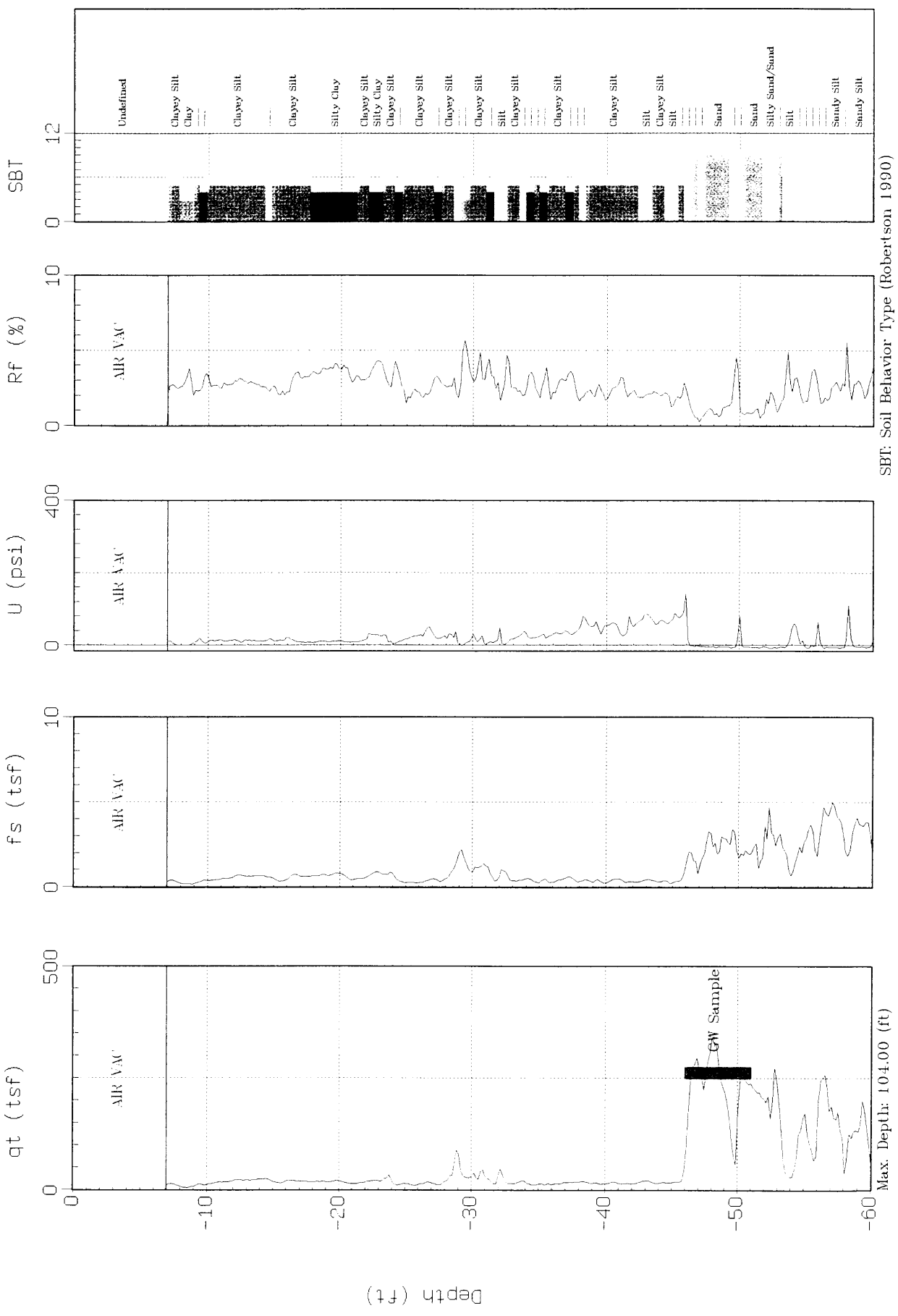




# DELTA

Site : 6750 SANTA RITA  
Location : CPT-03

Geologist : D. ARNOLD  
Date : 12:18:03 14:13



SBT: Soil Behavior Type (Robertson 1990)

Max. Depth: 104.00 (ft)

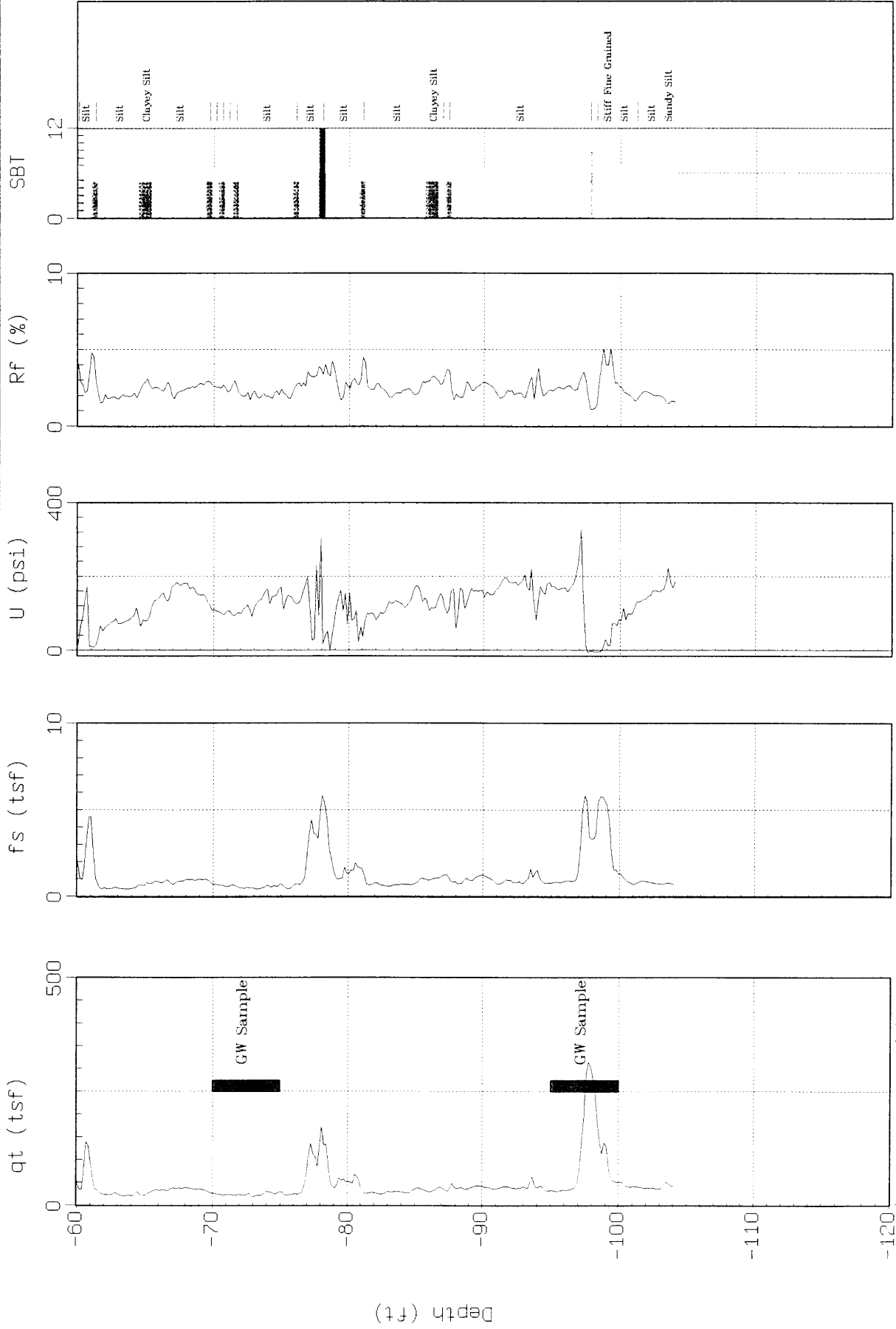
Depth Inc.: 0.164 (ft)



# DELTA

Site : 6750 SANTA RITA  
Location : CPT-03

Geologist : D. ARNOLD  
Date : 12:18:03 14:13



SBT: Soil Behavior Type (Robertson 1990)

Max. Depth: 104.00 (ft)  
Depth Inc.: 0.164 (ft)

## 3.2 INTERPRETED OUTPUT



Gregg In Situ, Inc.

Interpretation Output - Release 1.00.19e

Run No: 04-0105-1555-4128

Job No: 03-399ma

Client: DELTA

Project: CPT SITE INVESTIGATION

Site: 6750 SANTA RITA

Location: CPT-01

Engineer: D. ARNOLD

CPT Date: 03/18/12

CPT Time: 08:33

CPT File: 399C01.COR

Northing (m): 0.000

Easting (m): 0.000

Elevation (m): 0.000

Water Table (m): 13.72 (ft): 45.0

Su Nkt used: 12.50

Averaging Increment (m): 0.30

Phi Method : Robertson and Campanella, 1983

Dr Method : Jamiolkowski - All Sands

State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	0.0	0.00	0.00	0.0	UnDef	124.1	0.34	0.34	0.00	1.73	UnDef	UnDef	UnDef	0.00
6.40	0.0	0.00	0.00	0.0	UnDef	124.1	0.40	0.40	0.00	1.59	UnDef	UnDef	UnDef	0.00
7.30	8.3	0.23	2.76	29.7	4	114.6	0.45	0.45	0.00	1.49	5.3	7.9	0.63	0.10
8.20	11.1	0.39	3.56	16.0	3	111.4	0.50	0.50	0.00	1.41	10.6	15.0	0.85	0.12
9.19	13.3	0.51	3.83	6.6	3	111.4	0.56	0.56	0.00	1.34	12.7	17.1	1.02	0.14
10.17	17.6	0.58	3.31	2.4	4	114.6	0.61	0.61	0.00	1.28	11.3	14.4	1.36	0.20
11.15	14.3	0.45	3.18	-1.8	4	114.6	0.67	0.67	0.00	1.22	9.1	11.1	1.09	0.14
12.14	18.3	0.60	3.28	9.1	5	114.6	0.73	0.73	0.00	1.17	8.8	10.3	1.41	0.19
13.21	22.6	0.69	3.08	45.0	5	114.6	0.79	0.79	0.00	1.13	10.8	12.2	1.74	0.26

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4128  
 CPT File: 399C01.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
14.27	26.7	0.78	2.92	54.3	5	114.6	0.85	0.85	0.00	1.09	12.8	13.9	2.06	0.34
15.26	28.7	0.83	2.90	50.4	5	114.6	0.90	0.90	0.00	1.05	13.7	14.4	2.22	0.38
16.24	23.7	0.64	2.71	66.8	5	114.6	0.96	0.96	0.00	1.02	11.4	11.6	1.82	0.23
17.22	19.9	0.69	3.49	50.8	4	114.6	1.02	1.02	0.00	0.99	12.7	12.6	1.51	0.16
18.21	20.8	0.73	3.49	57.7	4	114.6	1.07	1.07	0.00	0.97	13.3	12.8	1.57	0.17
19.19	22.1	0.79	3.58	43.9	4	114.6	1.13	1.13	0.00	0.94	14.1	13.3	1.68	0.18
20.18	20.0	0.76	3.80	23.3	4	114.6	1.19	1.19	0.00	0.92	12.8	11.8	1.51	0.00
21.16	16.4	0.66	4.05	13.5	3	111.4	1.24	1.24	0.00	0.90	15.7	14.1	1.21	0.00
22.15	14.7	0.45	3.07	34.4	5	114.6	1.30	1.30	0.00	0.88	7.0	6.2	1.07	0.10
23.13	16.7	0.56	3.33	48.3	4	114.6	1.35	1.35	0.00	0.86	10.7	9.2	1.23	0.00
24.11	18.5	0.65	3.53	35.2	4	114.6	1.41	1.41	0.00	0.84	11.8	10.0	1.37	0.00
25.10	20.9	0.71	3.39	33.2	5	114.6	1.47	1.47	0.00	0.83	10.0	8.3	1.56	0.00
26.08	14.3	0.50	3.49	40.1	4	114.6	1.52	1.52	0.00	0.81	9.1	7.4	1.02	0.00
27.07	13.8	0.29	2.12	71.9	5	114.6	1.58	1.58	0.00	0.80	6.6	5.3	0.98	0.09
28.05	17.1	0.53	3.12	83.8	5	114.6	1.64	1.64	0.00	0.78	8.2	6.4	1.24	0.00
29.04	14.9	0.32	2.13	89.7	5	114.6	1.69	1.69	0.00	0.77	7.1	5.5	1.06	0.10
30.02	63.3	1.30	2.06	67.1	7	117.8	1.75	1.75	0.00	0.76	20.2	15.3	UnDef	0.30
31.00	39.3	1.69	4.30	-7.3	4	114.6	1.81	1.81	0.00	0.74	25.1	18.7	3.00	0.00
31.99	22.3	0.97	4.36	15.0	3	111.4	1.86	1.86	0.00	0.73	21.4	15.7	1.64	0.00
32.97	13.4	0.38	2.82	27.0	5	114.6	1.92	1.92	0.00	0.72	6.4	4.6	0.92	0.00
33.96	13.6	0.48	3.54	30.9	4	114.6	1.97	1.97	0.00	0.71	8.7	6.2	0.93	0.00
34.94	12.9	0.39	2.99	21.0	4	114.6	2.03	2.03	0.00	0.70	8.3	5.8	0.87	0.00
35.92	13.6	0.32	2.35	66.2	5	114.6	2.09	2.09	0.00	0.69	6.5	4.5	0.92	0.09
36.91	12.7	0.28	2.18	62.0	5	114.6	2.14	2.14	0.00	0.68	6.1	4.2	0.85	0.09
37.89	20.3	0.72	3.55	78.3	4	114.6	2.20	2.20	0.00	0.67	12.9	8.7	1.45	0.00
38.88	18.2	0.63	3.48	46.7	4	114.6	2.26	2.26	0.00	0.67	11.6	7.7	1.28	0.00
39.86	17.3	0.50	2.88	50.5	5	114.6	2.31	2.31	0.00	0.66	8.3	5.5	1.20	0.00
40.85	14.2	0.23	1.64	80.0	6	114.6	2.37	2.37	0.00	0.65	5.4	3.5	0.95	0.09
41.83	16.9	0.33	1.94	126.0	6	114.6	2.42	2.42	0.00	0.64	6.5	4.2	1.16	0.09
42.81	53.6	1.50	2.79	31.8	6	114.6	2.48	2.48	0.00	0.63	20.5	13.0	4.09	0.00
43.80	156.1	1.18	0.75	-10.9	9	124.1	2.54	2.54	0.00	0.63	29.9	18.8	UnDef	0.26
44.78	161.2	1.20	0.74	-16.2	9	124.1	2.60	2.60	0.00	0.62	30.9	19.1	UnDef	0.26
45.77	143.4	0.64	0.44	-12.9	9	124.1	2.66	2.64	0.02	0.62	27.5	16.9	UnDef	0.14
46.75	149.8	1.25	0.83	-18.3	9	124.1	2.72	2.67	0.05	0.61	28.7	17.6	UnDef	0.25
47.74	111.3	1.38	1.24	-16.7	8	120.9	2.78	2.70	0.09	0.61	26.6	16.2	UnDef	0.25
48.72	34.4	0.98	2.85	4.7	5	114.6	2.84	2.73	0.12	0.61	16.5	10.0	2.52	0.18

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4128  
 CPT File: 399C01.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
49.70	25.9	0.46	1.79	47.4	6	114.6	2.90	2.75	0.15	0.60	9.9	6.0	1.84	0.12
50.69	18.2	0.41	2.24	77.2	5	114.6	2.95	2.78	0.18	0.60	8.7	5.2	1.22	0.09
51.67	206.7	1.98	0.96	7.3	9	124.1	3.01	2.80	0.21	0.60	39.6	23.6	UnDef	0.43
52.66	214.7	3.96	1.85	-16.3	8	120.9	3.07	2.83	0.24	0.59	51.4	30.5	UnDef	0.00
53.64	170.7	3.84	2.25	-16.9	7	117.8	3.13	2.86	0.27	0.59	54.5	32.2	UnDef	0.00
54.63	120.4	2.50	2.08	-16.2	7	117.8	3.19	2.89	0.30	0.59	38.4	22.6	UnDef	0.00
55.61	64.6	1.50	2.33	78.8	6	114.6	3.25	2.92	0.33	0.59	24.7	14.5	4.91	0.00
56.59	106.1	0.98	0.92	70.4	8	120.9	3.30	2.94	0.36	0.58	25.4	14.8	UnDef	0.20
57.58	47.0	0.72	1.52	46.0	7	117.8	3.36	2.97	0.39	0.58	15.0	8.7	UnDef	0.30
58.56	24.4	0.46	1.87	179.8	6	114.6	3.42	3.00	0.42	0.58	9.4	5.4	1.68	0.11
59.55	57.0	1.78	3.13	153.7	6	114.6	3.48	3.02	0.45	0.58	21.8	12.5	4.28	0.00
60.53	42.0	1.71	4.07	68.9	5	114.6	3.53	3.05	0.48	0.57	20.1	11.5	3.08	0.00
61.52	40.6	1.68	4.13	70.5	5	114.6	3.59	3.07	0.52	0.57	19.5	11.1	2.96	0.00
62.42	23.3	0.90	3.85	188.7	4	114.6	3.64	3.10	0.54	0.57	14.9	8.5	1.58	0.00
63.32	41.3	1.06	2.57	127.0	6	114.6	3.69	3.12	0.57	0.57	15.8	9.0	3.01	0.22
64.30	24.0	0.40	1.65	116.9	6	114.6	3.75	3.15	0.60	0.56	9.2	5.2	1.62	0.11
65.29	26.0	0.56	2.16	189.1	6	114.6	3.81	3.17	0.63	0.56	9.9	5.6	1.77	0.11
66.27	31.2	0.71	2.26	270.1	6	114.6	3.86	3.20	0.66	0.56	12.0	6.7	2.19	0.14
67.26	31.7	0.68	2.14	300.7	6	114.6	3.92	3.22	0.69	0.56	12.2	6.8	2.23	0.14
68.24	38.5	0.88	2.28	383.3	6	114.6	3.98	3.25	0.73	0.55	14.8	8.2	2.76	0.19
69.22	36.2	1.12	3.09	285.8	5	114.6	4.03	3.28	0.76	0.55	17.3	9.6	2.57	0.00
70.21	26.7	0.74	2.77	186.8	5	114.6	4.09	3.30	0.79	0.55	12.8	7.0	1.81	0.00
71.19	24.3	0.51	2.12	205.0	6	114.6	4.14	3.33	0.82	0.55	9.3	5.1	1.61	0.11
72.18	26.5	0.49	1.87	278.9	6	114.6	4.20	3.35	0.85	0.55	10.1	5.5	1.78	0.11
73.16	27.3	0.68	2.50	244.9	6	114.6	4.26	3.38	0.88	0.54	10.4	5.7	1.84	0.12
74.15	28.3	0.56	1.98	248.6	6	114.6	4.31	3.40	0.91	0.54	10.8	5.9	1.92	0.12
75.13	27.1	0.63	2.33	192.0	6	114.6	4.37	3.43	0.94	0.54	10.4	5.6	1.82	0.11
76.11	25.0	0.70	2.78	212.3	5	114.6	4.43	3.45	0.97	0.54	12.0	6.4	1.64	0.00
77.10	41.3	1.10	2.66	284.0	6	114.6	4.48	3.48	1.00	0.54	15.8	8.5	2.95	0.20
78.08	105.9	3.98	3.76	124.2	6	114.6	4.54	3.51	1.03	0.53	40.6	21.7	8.11	0.00
79.07	43.9	1.74	3.96	105.6	5	114.6	4.60	3.53	1.06	0.53	21.0	11.2	3.15	0.00
80.05	39.4	1.05	2.66	214.5	6	114.6	4.65	3.56	1.09	0.53	15.1	8.0	2.78	0.18
81.04	28.4	0.83	2.92	149.1	5	114.6	4.71	3.58	1.13	0.53	13.6	7.2	1.89	0.00
82.02	38.7	1.06	2.74	139.0	6	114.6	4.76	3.61	1.16	0.53	14.8	7.8	2.71	0.17
83.00	30.6	0.83	2.72	210.8	6	114.6	4.82	3.63	1.19	0.52	11.7	6.1	2.06	0.00
83.99	34.4	0.74	2.16	295.2	6	114.6	4.88	3.66	1.22	0.52	13.2	6.9	2.36	0.14

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4128  
 CPT File: 399C01.COR

Page: 4a

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
84.97	72.1	2.36	3.28	300.6	6	114.6	4.93	3.69	1.25	0.52	27.6	14.4	5.37	0.00
85.96	58.8	2.63	4.47	69.2	5	114.6	4.99	3.71	1.28	0.52	28.2	14.6	4.31	0.00
86.94	29.7	0.82	2.75	258.8	5	114.6	5.05	3.74	1.31	0.52	14.2	7.4	1.97	0.00
87.93	37.9	0.95	2.50	299.1	6	114.6	5.10	3.76	1.34	0.52	14.5	7.5	2.62	0.16
88.91	43.1	1.17	2.71	344.4	6	114.6	5.16	3.79	1.37	0.51	16.5	8.5	3.03	0.20
89.89	39.1	0.98	2.51	313.4	6	114.6	5.22	3.81	1.40	0.51	15.0	7.7	2.71	0.17
90.88	30.3	0.47	1.54	303.2	6	114.6	5.27	3.84	1.43	0.51	11.6	5.9	2.00	0.12
91.86	35.8	0.70	1.96	407.3	6	114.6	5.33	3.87	1.46	0.51	13.7	7.0	2.44	0.15
92.85	33.9	0.70	2.07	443.1	6	114.6	5.38	3.89	1.49	0.51	13.0	6.6	2.29	0.14
93.83	60.5	1.43	2.37	263.0	6	114.6	5.44	3.92	1.52	0.51	23.2	11.7	4.41	0.39
94.82	35.2	0.74	2.11	282.7	6	114.6	5.50	3.94	1.56	0.50	13.5	6.8	2.37	0.14
95.80	36.5	0.72	1.97	399.6	6	114.6	5.55	3.97	1.59	0.50	14.0	7.0	2.47	0.15
96.78	88.4	1.79	2.02	426.3	7	117.8	5.61	3.99	1.62	0.50	28.2	14.1	UnDef	0.00
97.77	157.6	3.94	2.50	49.6	7	117.8	5.67	4.02	1.65	0.50	50.3	25.2	UnDef	0.00
98.75	51.0	1.52	2.98	194.1	6	114.6	5.73	4.05	1.68	0.50	19.5	9.8	3.62	0.26
99.74	44.3	0.82	1.84	296.5	7	117.8	5.78	4.07	1.71	0.50	14.1	7.1	UnDef	0.20
100.72	41.1	0.98	2.38	258.2	6	114.6	5.84	4.10	1.74	0.50	15.8	7.9	2.82	0.17
101.70	39.1	0.91	2.33	332.5	6	114.6	5.90	4.13	1.77	0.50	15.0	7.5	2.66	0.16
102.69	40.7	0.98	2.41	358.5	6	114.6	5.95	4.15	1.80	0.50	15.6	7.8	2.78	0.17
103.67	44.6	0.88	1.96	455.5	6	114.6	6.01	4.18	1.83	0.50	17.1	8.6	3.09	0.19
104.66	49.5	1.30	2.62	462.3	6	114.6	6.07	4.20	1.86	0.50	19.0	9.5	3.48	0.23
105.64	45.5	1.52	3.33	250.8	5	114.6	6.12	4.23	1.89	0.50	21.8	10.9	3.15	0.00
106.63	37.1	0.89	2.39	302.8	6	114.6	6.18	4.25	1.92	0.50	14.2	7.1	2.48	0.14
107.61	45.4	0.96	2.11	450.4	6	114.6	6.24	4.28	1.95	0.50	17.4	8.7	3.14	0.20
108.59	106.5	5.71	5.36	215.5	11	130.5	6.30	4.31	1.99	0.50	102.0	51.0	UnDef	0.00
109.58	52.9	1.76	3.33	329.6	5	114.6	6.36	4.34	2.02	0.50	25.3	12.7	3.72	0.00
110.56	48.5	1.33	2.75	309.1	6	114.6	6.41	4.37	2.05	0.50	18.6	9.3	3.37	0.22
111.55	40.1	1.11	2.76	261.6	6	114.6	6.47	4.39	2.08	0.50	15.3	7.7	2.69	0.00
112.53	35.2	0.90	2.56	296.8	6	114.6	6.53	4.42	2.11	0.50	13.5	6.7	2.29	0.00
113.52	37.5	0.93	2.48	358.6	6	114.6	6.58	4.44	2.14	0.50	14.4	7.2	2.47	0.14
114.50	49.0	1.38	2.81	447.2	6	114.6	6.64	4.47	2.17	0.50	18.8	9.4	3.39	0.22
115.48	134.9	4.67	3.46	226.0	6	114.6	6.69	4.49	2.20	0.50	51.7	25.8	10.25	0.00

Gregg In Situ, Inc.  
 Interpretation Output - Release 1.00.19e  
 Run No: 04-0105-1555-4128  
 Job No: 03-399ma  
 Client: DELTA  
 Project: CPT SITE INVESTIGATION  
 Site: 6750 SANTA RITA  
 Location: CPT-01  
 Engineer: D. ARNOLD  
 CPT Date: 03/18/12  
 CPT Time: 08:33  
 CPT File: 399C01.COR  
 Northing (m): 0.000  
 Easting (m): 0.000  
 Elevation (m): 0.000

Water Table (m): 13.72 (ft): 45.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiolkowski - All Sands  
 State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del Param	(n1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
6.40	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
7.30	5.0E-07	0.12	17.4	2.92	6	12.1	48.3	60.4	45.7	UnDef	UnDef	6.0	UnDef	7.9	15.8
8.20	5.0E-08	0.05	21.1	3.73	6	15.3	61.2	76.5	45.7	UnDef	UnDef	6.0	UnDef	15.0	30.0
9.19	5.0E-08	0.02	22.9	4.00	6	17.4	69.8	87.2	45.3	UnDef	UnDef	6.0	UnDef	17.1	34.1
10.17	5.0E-07	0.00	27.8	3.42	6	22.1	88.2	110.3	39.4	UnDef	UnDef	6.0	UnDef	14.4	28.8
11.15	5.0E-07	0.00	20.3	3.33	6	17.1	68.3	85.3	44.7	UnDef	UnDef	6.0	UnDef	11.1	22.3
12.14	5.0E-06	0.02	24.2	3.41	6	21.0	84.1	105.1	41.8	UnDef	UnDef	6.0	UnDef	10.3	20.6
13.21	5.0E-06	0.06	27.7	3.19	6	24.9	99.6	124.5	38.4	UnDef	UnDef	6.0	UnDef	12.2	24.4

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
14.27	5.0E-06	0.07	30.5	3.02	6	28.3	113.4	141.7	36.0	UnDef	UnDef	6.0	UnDef	13.9	27.7
15.26	5.0E-06	0.06	30.7	2.99	6	29.5	118.0	147.5	35.8	UnDef	UnDef	6.0	UnDef	14.4	28.9
16.24	5.0E-06	0.09	23.7	2.83	6	23.7	94.7	118.4	39.4	UnDef	UnDef	6.0	UnDef	11.6	23.2
17.22	5.0E-07	0.08	18.6	3.67	4	19.3	77.2	96.5	48.0	UnDef	UnDef	6.0	UnDef	12.6	25.2
18.21	5.0E-07	0.09	18.3	3.68	4	19.6	78.4	98.0	48.3	UnDef	UnDef	6.0	UnDef	12.8	25.6
19.19	5.0E-07	0.07	18.6	3.77	4	20.3	81.4	101.7	48.4	UnDef	UnDef	6.0	UnDef	13.3	26.6
20.18	5.0E-07	0.04	15.9	4.04	1	18.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
21.16	5.0E-08	0.03	12.2	4.38	1	14.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
22.15	5.0E-06	0.08	10.3	3.37	4	12.6	50.4	63.0	59.5	UnDef	UnDef	3.0	UnDef	6.2	12.3
23.13	5.0E-07	0.10	11.4	3.62	1	14.1	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
24.11	5.0E-07	0.06	12.1	3.83	1	15.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
25.10	5.0E-06	0.05	13.3	3.64	1	16.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
26.08	5.0E-07	0.10	8.4	3.91	1	11.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
27.07	5.0E-06	0.18	7.7	2.39	4	10.8	43.0	53.8	60.9	UnDef	UnDef	3.0	UnDef	5.3	10.5
28.05	5.0E-06	0.17	9.5	3.45	1	13.1	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
29.04	5.0E-06	0.21	7.8	2.40	4	11.2	44.9	56.1	60.8	UnDef	UnDef	3.0	UnDef	5.5	11.0
30.02	5.0E-04	0.03	35.2	2.12	7	46.8	86.3	133.1	29.3	38	45.5	1.0	-0.15	10.4	25.7
31.00	5.0E-07	-0.01	20.8	4.51	1	28.6	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
31.99	5.0E-08	0.02	11.0	4.75	1	16.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
32.97	5.0E-06	0.07	6.0	3.29	1	9.5	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
33.96	5.0E-07	0.08	5.9	4.14	1	9.5	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
34.94	5.0E-07	0.06	5.4	3.55	1	8.9	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
35.92	5.0E-06	0.18	5.5	2.77	4	9.2	36.9	46.1	72.6	UnDef	UnDef	1.5	UnDef	4.5	9.0
36.91	5.0E-06	0.18	4.9	2.63	4	8.5	34.0	42.5	75.0	UnDef	UnDef	1.5	UnDef	4.2	8.3
37.89	5.0E-07	0.14	8.2	3.99	1	13.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
38.88	5.0E-07	0.09	7.1	3.97	1	11.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
39.86	5.0E-06	0.10	6.5	3.32	1	11.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
40.85	5.0E-05	0.21	5.0	1.97	4	9.0	36.1	45.1	69.8	30	30.0	1.5	0.09	3.5	7.1
41.83	5.0E-05	0.27	6.0	2.26	4	10.6	42.5	53.1	67.0	30	30.0	1.5	0.07	4.2	8.3
42.81	5.0E-05	0.02	20.6	2.92	6	33.3	133.3	166.6	42.4	34	35.8	6.0	-0.13	13.0	26.1
43.80	5.0E-02	0.00	60.5	0.77	9	95.8	27.8	123.7	13.4	40	66.1	1.0	-0.12	3.1	21.8
44.78	5.0E-02	0.00	61.0	0.76	9	97.8	27.6	125.5	13.3	40	66.6	1.0	-0.12	3.1	22.2
45.77	5.0E-02	0.00	53.3	0.45	9	86.4	0.0	86.4	5.0	40	63.1	1.0	-0.06	0.0	16.9
46.75	5.0E-02	0.00	55.1	0.85	9	89.8	33.1	122.8	15.1	40	64.2	1.0	-0.12	3.6	21.1
47.74	5.0E-03	-0.01	40.2	1.27	7	66.3	55.7	122.0	22.1	38	55.5	1.0	-0.12	6.5	22.7
48.72	5.0E-06	0.00	11.6	3.11	4	20.4	81.5	101.9	55.4	UnDef	UnDef	3.0	UnDef	10.0	19.9

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60	(N1)60cs
49.70	5.0E-05	0.06	8.4	2.02	4	15.3	61.1	76.4	56.5	30	30.0	3.0	0.01	6.0	12.0
50.69	5.0E-06	0.15	5.5	2.68	4	10.7	42.7	53.3	72.2	UnDef	UnDef	1.5	UnDef	5.2	10.4
51.67	5.0E-02	0.00	72.6	0.97	9	120.8	34.2	155.0	13.3	40	72.7	1.0	-0.15	3.8	27.4
52.66	5.0E-03	0.00	74.7	1.87	7	124.8	70.5	195.3	18.5	40	73.6	1.0	-0.22	8.9	39.4
53.64	5.0E-04	0.00	58.5	2.29	7	98.7	95.1	193.9	23.4	40	66.9	1.0	-0.22	14.3	46.5
54.63	5.0E-04	-0.01	40.6	2.14	7	69.3	102.3	171.6	27.3	38	56.8	1.0	-0.17	13.4	36.1
55.61	5.0E-05	0.03	21.0	2.45	6	37.0	148.1	185.1	39.6	34	38.8	6.0	-0.11	14.5	29.0
56.59	5.0E-03	0.02	34.9	0.95	7	60.5	47.3	107.8	21.4	38	52.9	1.0	-0.08	5.6	20.4
57.58	5.0E-04	0.02	14.7	1.64	6	26.7	106.7	133.4	41.2	32	30.0	1.0	-0.04	8.7	17.4
58.56	5.0E-05	0.25	7.0	2.17	4	13.8	55.3	69.1	62.0	30	30.0	3.0	0.05	5.4	10.8
59.55	5.0E-05	0.08	17.7	3.33	6	32.1	128.2	160.3	47.4	32	34.7	6.0	-0.12	12.5	25.1
60.53	5.0E-06	0.04	12.6	4.44	1	23.6	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
61.52	5.0E-06	0.05	12.1	4.53	1	22.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
62.42	5.0E-07	0.27	6.4	4.56	1	13.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
63.32	5.0E-05	0.09	12.0	2.83	4	22.9	91.5	114.4	53.0	30	30.0	3.0	-0.05	9.0	17.9
64.30	5.0E-05	0.15	6.4	1.96	4	13.3	53.0	66.3	62.6	30	30.0	3.0	0.05	5.2	10.4
65.29	5.0E-05	0.24	7.0	2.53	4	14.3	57.1	71.3	64.6	30	30.0	3.0	0.04	5.6	11.2
66.27	5.0E-05	0.28	8.6	2.57	4	17.1	68.4	85.5	59.6	30	30.0	3.0	0.02	6.7	13.4
67.26	5.0E-05	0.31	8.6	2.44	4	17.3	69.2	86.5	58.5	30	30.0	3.0	0.03	6.8	13.5
68.24	5.0E-05	0.33	10.6	2.54	4	20.9	83.6	104.5	54.2	30	30.0	3.0	0.01	8.2	16.4
69.22	5.0E-06	0.25	9.8	3.47	1	19.6	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
70.21	5.0E-06	0.22	6.8	3.28	1	14.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
71.19	5.0E-05	0.28	6.1	2.55	4	13.0	52.2	65.2	68.5	30	30.0	1.5	0.06	5.1	10.2
72.18	5.0E-05	0.35	6.6	2.22	4	14.2	56.6	70.8	63.8	30	30.0	3.0	0.07	5.5	11.1
73.16	5.0E-05	0.29	6.8	2.96	4	14.5	58.1	72.6	67.9	30	30.0	3.0	0.05	5.7	11.4
74.15	5.0E-05	0.29	7.0	2.34	4	15.0	59.9	74.9	63.1	30	30.0	3.0	0.05	5.9	11.7
75.13	5.0E-05	0.22	6.6	2.77	4	14.3	57.4	71.7	67.5	30	30.0	3.0	0.04	5.6	11.2
76.11	5.0E-06	0.28	5.9	3.38	1	13.1	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
77.10	5.0E-05	0.21	10.6	2.98	4	21.7	86.7	108.4	56.8	30	30.0	3.0	-0.02	8.5	17.0
78.08	5.0E-05	0.03	28.9	3.93	6	55.4	221.4	276.8	40.8	36	50.3	6.0	-0.23	21.7	43.3
79.07	5.0E-06	0.06	11.1	4.43	1	22.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
80.05	5.0E-05	0.16	9.8	3.02	4	20.4	81.8	102.2	58.9	30	30.0	3.0	-0.02	8.0	16.0
81.04	5.0E-06	0.15	6.6	3.50	1	14.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
82.02	5.0E-05	0.09	9.4	3.13	4	19.9	79.7	99.6	60.5	30	30.0	3.0	-0.03	7.8	15.6
83.00	5.0E-05	0.21	7.1	3.23	1	15.7	UnDef	UnDef	100.0	30	30.0	3.0	0.02	UnDef	UnDef
83.99	5.0E-05	0.27	8.1	2.51	4	17.6	70.4	88.0	60.7	30	30.0	3.0	0.03	6.9	13.8

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
84.97	5.0E-05	0.12	18.2	3.52	6	36.8	147.0	183.8	47.7	32	38.6	6.0	-0.12	14.4	28.8
85.96	5.0E-06	0.02	14.5	4.89	1	29.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
86.94	5.0E-06	0.27	6.6	3.32	1	15.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
87.93	5.0E-05	0.24	8.7	2.89	4	19.1	76.5	95.6	61.0	30	30.0	3.0	0.01	7.5	15.0
88.91	5.0E-05	0.25	10.0	3.08	4	21.7	86.7	108.3	58.7	30	30.0	3.0	-0.01	8.5	17.0
89.89	5.0E-05	0.25	8.9	2.90	4	19.6	78.3	97.9	60.6	30	30.0	3.0	0.01	7.7	15.3
90.88	5.0E-05	0.32	6.5	1.86	4	15.1	60.5	75.6	61.6	30	30.0	3.0	0.08	5.9	11.8
91.86	5.0E-05	0.37	7.9	2.30	4	17.8	71.3	89.1	59.9	30	30.0	3.0	0.05	7.0	14.0
92.85	5.0E-05	0.43	7.3	2.46	4	16.8	67.4	84.2	62.8	30	30.0	3.0	0.07	6.6	13.2
93.83	5.0E-05	0.12	14.1	2.60	6	29.9	119.7	149.6	48.3	32	32.7	6.0	-0.06	11.7	23.4
94.82	5.0E-05	0.25	7.5	2.51	4	17.3	69.3	86.6	62.4	30	30.0	3.0	0.04	6.8	13.6
95.80	5.0E-05	0.35	7.8	2.32	4	17.9	71.7	89.6	60.3	30	30.0	3.0	0.05	7.0	14.0
96.78	5.0E-04	0.14	20.7	2.16	6	43.3	173.2	216.5	38.2	34	43.3	1.0	-0.08	14.1	28.3
97.77	5.0E-04	0.00	37.8	2.60	6	76.9	168.5	245.4	30.7	38	59.7	1.0	-0.19	18.9	44.1
98.75	5.0E-05	0.10	11.2	3.36	4	24.8	99.3	124.1	57.5	30	30.0	3.0	-0.06	9.8	19.5
99.74	5.0E-04	0.20	9.4	2.12	4	21.5	85.9	107.3	54.2	30	30.0	1.0	0.01	7.1	14.1
100.72	5.0E-05	0.18	8.6	2.77	4	19.9	79.5	99.4	60.7	30	30.0	3.0	0.00	7.9	15.8
101.70	5.0E-05	0.26	8.0	2.75	4	18.8	75.3	94.1	62.2	30	30.0	3.0	0.02	7.5	15.0
102.69	5.0E-05	0.27	8.4	2.82	4	19.6	78.2	97.8	61.6	30	30.0	3.0	0.02	7.8	15.6
103.67	5.0E-05	0.32	9.2	2.27	4	21.4	85.5	106.9	55.7	30	30.0	3.0	0.03	8.6	17.1
104.66	5.0E-05	0.29	10.3	2.98	4	23.6	94.6	118.2	57.4	30	30.0	3.0	-0.01	9.5	19.0
105.64	5.0E-06	0.15	9.3	3.85	1	21.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
106.63	5.0E-05	0.24	7.3	2.87	4	17.6	70.5	88.1	65.6	30	30.0	3.0	0.03	7.1	14.2
107.61	5.0E-05	0.31	9.2	2.45	4	21.5	86.0	107.4	57.1	30	30.0	3.0	0.02	8.7	17.4
108.59	1.0E-15	0.05	23.3	5.70	1	50.2	UnDef	UnDef	100.0	34	47.5	1.0	-0.33	UnDef	UnDef
109.58	5.0E-06	0.18	10.7	3.78	1	24.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
110.56	5.0E-05	0.18	9.6	3.16	4	22.7	90.9	113.6	60.0	30	30.0	3.0	-0.02	9.3	18.6
111.55	5.0E-05	0.18	7.6	3.29	1	18.7	UnDef	UnDef	100.0	30	30.0	3.0	0.01	UnDef	UnDef
112.53	5.0E-05	0.25	6.5	3.14	1	16.4	UnDef	UnDef	100.0	30	30.0	3.0	0.04	UnDef	UnDef
113.52	5.0E-05	0.29	7.0	3.01	4	17.4	69.6	87.0	67.6	30	30.0	3.0	0.04	7.2	14.4
114.50	5.0E-05	0.28	9.5	3.26	4	22.7	90.7	113.4	61.0	30	30.0	3.0	0.00	9.4	18.8
115.48	5.0E-05	0.04	28.5	3.64	6	62.3	249.1	311.3	39.9	36	53.7	6.0	-0.21	25.8	51.7



Gregg In Situ, Inc.  
 Interpretation Output - Release 1.00.19e

Page: 1a

Run No: 04-0105-1555-4205  
 Job No: 03-399ma  
 Client: DELTA  
 Project: CPT SITE INVESTIGATION  
 Site: 6750 SANTA RITA  
 Location: CPT-02  
 Engineer: D. ARNOLD  
 CPT Date: 03/19/12  
 CPT Time: 09:54  
 CPT File: 399C02.COR  
 Northing (m): 0.000  
 Easting (m): 0.000  
 Elevation (m): 0.000

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 Water Table (m): 12.19 (ft): 40.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiolkowski - All Sands  
 State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	0.0	0.00	0.00	0.0	UnDef	124.1	0.34	0.34	0.00	1.73	UnDef	UnDef	UnDef	0.00
6.40	0.0	0.00	0.00	0.0	UnDef	124.1	0.40	0.40	0.00	1.59	UnDef	UnDef	UnDef	0.00
7.30	9.6	0.25	2.63	27.1	4	114.6	0.45	0.45	0.00	1.49	6.1	9.1	0.73	0.11
8.20	12.1	0.44	3.60	8.1	3	111.4	0.50	0.50	0.00	1.41	11.6	16.4	0.93	0.13
9.19	16.3	0.46	2.85	9.9	5	114.6	0.56	0.56	0.00	1.34	7.8	10.4	1.26	0.19
10.17	14.7	0.45	3.03	3.8	5	114.6	0.61	0.61	0.00	1.28	7.1	9.0	1.13	0.15
11.15	14.6	0.46	3.17	5.9	4	114.6	0.67	0.67	0.00	1.22	9.3	11.4	1.11	0.14
12.14	16.6	0.56	3.37	10.4	4	114.6	0.73	0.73	0.00	1.17	10.6	12.4	1.27	0.16
13.21	20.0	0.62	3.07	19.1	5	114.6	0.79	0.79	0.00	1.13	9.6	10.8	1.54	0.21

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4205  
 CPT File: 399C02.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
14.27	23.7	0.72	3.04	26.0	5	114.6	0.85	0.85	0.00	1.09	11.3	12.3	1.83	0.27
15.26	26.3	0.75	2.86	56.9	5	114.6	0.91	0.91	0.00	1.05	12.6	13.3	2.03	0.31
16.24	20.4	0.60	2.95	10.2	5	114.6	0.96	0.96	0.00	1.02	9.7	9.9	1.55	0.18
17.22	21.8	0.61	2.79	25.5	5	114.6	1.02	1.02	0.00	0.99	10.4	10.3	1.66	0.19
18.21	21.7	0.67	3.09	27.4	5	114.6	1.07	1.07	0.00	0.96	10.4	10.0	1.65	0.18
19.19	21.1	0.66	3.14	48.2	5	114.6	1.13	1.13	0.00	0.94	10.1	9.5	1.60	0.17
20.18	20.0	0.65	3.23	56.9	5	114.6	1.19	1.19	0.00	0.92	9.6	8.8	1.51	0.15
21.16	19.7	0.70	3.56	44.4	4	114.6	1.24	1.24	0.00	0.90	12.6	11.3	1.48	0.00
22.15	13.6	0.45	3.32	-0.5	4	114.6	1.30	1.30	0.00	0.88	8.7	7.6	0.98	0.00
23.13	17.1	0.48	2.80	37.3	5	114.6	1.36	1.36	0.00	0.86	8.2	7.0	1.26	0.11
24.11	19.1	0.64	3.36	61.6	5	114.6	1.41	1.41	0.00	0.84	9.1	7.7	1.42	0.00
25.10	15.2	0.38	2.47	37.9	5	114.6	1.47	1.47	0.00	0.83	7.3	6.0	1.10	0.10
26.08	13.5	0.37	2.76	56.7	5	114.6	1.53	1.53	0.00	0.81	6.5	5.2	0.96	0.09
27.07	12.6	0.33	2.65	62.6	5	114.6	1.58	1.58	0.00	0.80	6.0	4.8	0.88	0.09
28.05	13.2	0.30	2.27	79.7	5	114.6	1.64	1.64	0.00	0.78	6.3	5.0	0.93	0.09
29.04	13.7	0.35	2.57	67.8	5	114.6	1.69	1.69	0.00	0.77	6.5	5.0	0.96	0.09
30.02	17.8	0.30	1.71	87.6	6	114.6	1.75	1.75	0.00	0.76	6.8	5.2	1.29	0.11
31.00	19.2	0.33	1.73	81.4	6	114.6	1.81	1.81	0.00	0.74	7.4	5.5	1.39	0.11
31.99	19.7	0.34	1.71	116.8	6	114.6	1.86	1.86	0.00	0.73	7.5	5.5	1.43	0.11
32.97	17.5	0.32	1.81	78.2	6	114.6	1.92	1.92	0.00	0.72	6.7	4.8	1.24	0.10
33.96	18.7	0.37	2.00	99.7	6	114.6	1.98	1.98	0.00	0.71	7.2	5.1	1.34	0.11
34.94	13.8	0.42	3.05	62.7	4	114.6	2.03	2.03	0.00	0.70	8.8	6.2	0.94	0.00
35.92	12.4	0.25	2.00	69.7	5	114.6	2.09	2.09	0.00	0.69	5.9	4.1	0.83	0.09
36.91	12.3	0.28	2.24	70.5	5	114.6	2.15	2.15	0.00	0.68	5.9	4.0	0.81	0.09
37.89	14.6	0.32	2.21	116.0	5	114.6	2.20	2.20	0.00	0.67	7.0	4.7	0.99	0.09
38.88	19.0	0.46	2.42	144.7	5	114.6	2.26	2.26	0.00	0.67	9.1	6.1	1.34	0.10
39.86	19.9	0.46	2.32	127.8	5	114.6	2.31	2.31	0.00	0.66	9.5	6.3	1.41	0.10
40.85	22.9	0.51	2.22	92.4	6	114.6	2.37	2.34	0.03	0.65	8.8	5.7	1.64	0.12
41.83	17.6	0.46	2.62	130.4	5	114.6	2.43	2.37	0.06	0.65	8.4	5.5	1.21	0.00
42.81	16.2	0.40	2.50	90.1	5	114.6	2.48	2.40	0.09	0.65	7.8	5.0	1.10	0.00
43.80	16.2	0.32	1.98	128.6	5	114.6	2.54	2.42	0.12	0.64	7.7	5.0	1.09	0.09
44.78	20.1	0.35	1.72	196.0	6	114.6	2.60	2.45	0.15	0.64	7.7	4.9	1.40	0.10
45.77	18.4	0.29	1.56	183.6	6	114.6	2.65	2.47	0.18	0.64	7.1	4.5	1.26	0.10
46.75	16.5	0.17	1.02	188.7	6	114.6	2.71	2.50	0.21	0.63	6.3	4.0	1.10	0.09
47.74	22.2	0.31	1.41	238.9	6	114.6	2.77	2.52	0.24	0.63	8.5	5.3	1.55	0.11
48.72	86.9	2.14	2.46	33.2	7	117.8	2.82	2.55	0.27	0.63	27.7	17.4	UnDef	0.00

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
49.70	96.9	1.75	1.81	54.8	7	117.8	2.88	2.58	0.30	0.62	30.9	19.3	UnDef	0.37
50.69	220.1	2.16	0.98	-0.4	9	124.1	2.94	2.61	0.33	0.62	42.2	26.1	UnDef	0.00
51.67	61.9	1.09	1.76	71.8	7	117.8	3.00	2.64	0.36	0.62	19.8	12.2	UnDef	0.00
52.66	43.8	0.89	2.04	175.6	6	114.6	3.06	2.66	0.40	0.61	16.8	10.3	3.26	0.29
53.64	36.1	0.75	2.09	120.0	6	114.6	3.11	2.69	0.43	0.61	13.8	8.4	2.64	0.20
54.63	29.6	0.61	2.06	114.3	6	114.6	3.17	2.71	0.46	0.61	11.4	6.9	2.12	0.14
55.61	172.6	3.23	1.87	83.6	8	120.9	3.23	2.74	0.49	0.60	41.3	25.0	UnDef	0.00
56.59	191.7	6.03	3.15	19.6	7	117.8	3.29	2.77	0.52	0.60	61.2	36.8	UnDef	0.00
57.58	139.6	3.36	2.40	0.0	7	117.8	3.34	2.80	0.55	0.60	44.6	26.7	UnDef	0.00
58.56	51.3	2.00	3.89	22.8	5	114.6	3.40	2.82	0.58	0.60	24.6	14.6	3.83	0.00
59.55	169.6	4.41	2.60	2.3	7	117.8	3.46	2.85	0.61	0.59	54.1	32.1	UnDef	0.00
60.53	149.6	4.44	2.96	-17.1	6	114.6	3.52	2.88	0.64	0.59	57.3	33.8	11.69	0.00
61.52	35.0	0.93	2.66	59.4	6	114.6	3.57	2.90	0.67	0.59	13.4	7.9	2.51	0.17
62.42	33.3	0.92	2.78	81.2	6	114.6	3.62	2.92	0.70	0.58	12.8	7.5	2.37	0.16
63.32	25.4	0.61	2.42	118.9	6	114.6	3.68	2.95	0.73	0.58	9.7	5.7	1.74	0.12
64.30	26.3	0.56	2.14	117.5	6	114.6	3.73	2.97	0.76	0.58	10.1	5.8	1.81	0.12
65.29	30.6	0.87	2.86	191.4	5	114.6	3.79	3.00	0.79	0.58	14.6	8.5	2.14	0.14
66.27	31.2	0.89	2.86	185.6	5	114.6	3.85	3.02	0.82	0.58	14.9	8.6	2.19	0.14
67.26	37.1	1.17	3.16	214.1	5	114.6	3.90	3.05	0.85	0.57	17.7	10.2	2.65	0.00
68.24	32.9	1.22	3.69	161.7	5	114.6	3.96	3.08	0.88	0.57	15.8	9.0	2.32	0.00
69.22	30.8	0.92	3.00	178.4	5	114.6	4.01	3.10	0.91	0.57	14.7	8.4	2.14	0.00
70.21	32.2	0.96	2.99	186.5	5	114.6	4.07	3.13	0.94	0.57	15.4	8.7	2.25	0.00
71.19	30.5	0.88	2.90	205.5	5	114.6	4.13	3.15	0.97	0.56	14.6	8.2	2.11	0.00
72.18	37.1	1.36	3.68	164.4	5	114.6	4.18	3.18	1.00	0.56	17.7	10.0	2.63	0.00
73.16	23.5	0.59	2.52	135.3	5	114.6	4.24	3.20	1.04	0.56	11.2	6.3	1.54	0.00
74.15	24.9	0.64	2.59	156.2	5	114.6	4.30	3.23	1.07	0.56	11.9	6.6	1.65	0.00
75.13	25.9	0.61	2.37	205.8	6	114.6	4.35	3.26	1.10	0.55	9.9	5.5	1.72	0.11
76.11	44.9	1.07	2.38	336.4	6	114.6	4.41	3.28	1.13	0.55	17.2	9.5	3.24	0.25
77.10	76.7	2.87	3.74	135.8	5	114.6	4.47	3.31	1.16	0.55	36.7	20.2	5.78	0.00
78.08	64.0	2.13	3.32	231.6	6	114.6	4.52	3.33	1.19	0.55	24.5	13.4	4.75	0.00
79.07	49.5	1.75	3.54	156.1	5	114.6	4.58	3.36	1.22	0.55	23.7	12.9	3.60	0.00
80.05	280.8	4.56	1.62	165.7	8	120.9	4.64	3.39	1.25	0.54	67.2	36.5	UnDef	0.00
81.04	165.9	3.63	2.19	-9.4	7	117.8	4.69	3.41	1.28	0.54	53.0	28.7	UnDef	0.00
82.02	52.9	0.98	1.86	147.2	7	117.8	4.75	3.44	1.31	0.54	16.9	9.1	UnDef	0.33
83.00	63.1	1.31	2.07	113.0	7	117.8	4.81	3.47	1.34	0.54	20.2	10.8	UnDef	0.00
83.99	33.9	0.92	2.72	60.9	6	114.6	4.87	3.49	1.37	0.53	13.0	6.9	2.32	0.15

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4205  
 CPT File: 399C02.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
84.97	30.0	0.69	2.31	94.0	6	114.6	4.92	3.52	1.40	0.53	11.5	6.1	2.00	0.12
85.96	31.4	0.62	1.99	159.2	6	114.6	4.98	3.55	1.43	0.53	12.0	6.4	2.11	0.13
86.94	38.9	0.75	1.93	208.4	6	114.6	5.04	3.57	1.47	0.53	14.9	7.9	2.71	0.18
87.93	38.1	0.94	2.48	243.8	6	114.6	5.09	3.60	1.50	0.53	14.6	7.7	2.64	0.17
88.91	36.0	1.01	2.80	247.2	6	114.6	5.15	3.62	1.53	0.53	13.8	7.2	2.47	0.00
89.89	37.8	0.86	2.27	290.1	6	114.6	5.21	3.65	1.56	0.52	14.5	7.6	2.61	0.16
90.88	35.4	0.83	2.34	250.2	6	114.6	5.26	3.67	1.59	0.52	13.6	7.1	2.41	0.15
91.86	43.6	1.02	2.34	383.2	6	114.6	5.32	3.70	1.62	0.52	16.7	8.7	3.06	0.21
92.85	36.7	0.76	2.06	347.4	6	114.6	5.38	3.73	1.65	0.52	14.1	7.3	2.51	0.16
93.83	38.5	0.70	1.81	395.2	6	114.6	5.43	3.75	1.68	0.52	14.8	7.6	2.65	0.17
94.82	54.3	1.38	2.55	400.1	6	114.6	5.49	3.78	1.71	0.51	20.8	10.7	3.90	0.32
95.80	53.1	1.23	2.32	440.7	6	114.6	5.54	3.80	1.74	0.51	20.4	10.4	3.81	0.30
96.78	37.8	1.24	3.29	295.3	5	114.6	5.60	3.83	1.77	0.51	18.1	9.2	2.57	0.00
97.77	34.1	0.82	2.41	348.6	6	114.6	5.66	3.85	1.80	0.51	13.1	6.7	2.28	0.14
98.75	131.0	3.20	2.44	400.0	7	117.8	5.71	3.88	1.83	0.51	41.8	21.2	UnDef	0.00
99.74	396.7	6.87	1.73	-10.3	8	120.9	5.77	3.91	1.87	0.51	95.0	48.1	UnDef	0.00
100.72	225.1	4.07	1.81	-7.2	8	120.9	5.83	3.94	1.90	0.50	53.9	27.2	UnDef	0.00
101.70	80.6	2.79	3.47	86.7	6	114.6	5.89	3.96	1.93	0.50	30.9	15.5	5.98	0.00
102.69	42.5	0.49	1.15	293.9	7	117.8	5.95	3.99	1.96	0.50	13.6	6.8	UnDef	0.18
103.67	44.5	0.57	1.28	382.2	7	117.8	6.01	4.02	1.99	0.50	14.2	7.1	UnDef	0.20

Gregg In Situ, Inc.  
 Interpretation Output - Release 1.00.19e  
 Run No: 04-0105-1555-4205  
 Job No: 03-399ma  
 Client: DELTA  
 Project: CPT SITE INVESTIGATION  
 Site: 6750 SANTA RITA  
 Location: CPT-02  
 Engineer: D. ARNOLD  
 CPT Date: 03/19/12  
 CPT Time: 09:54  
 CPT File: 399C02.COR  
 Northing (m): 0.000  
 Easting (m): 0.000  
 Elevation (m): 0.000

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 Water Table (m): 12.19 (ft): 40.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiolkowski - All Sands  
 State Parameter M: 1.20  
 Used Unit Weights Assigned to Soil Zones  
 Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
6.40	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
7.30	5.0E-07	0.09	20.3	2.76	6	14.0	55.9	69.9	41.9	UnDef	UnDef	6.0	UnDef	9.1	18.2
8.20	5.0E-08	0.02	23.1	3.75	6	16.7	67.0	83.7	44.1	UnDef	UnDef	6.0	UnDef	16.4	32.8
9.19	5.0E-06	0.02	28.2	2.95	6	21.3	85.2	106.5	37.0	UnDef	UnDef	6.0	UnDef	10.4	20.9
10.17	5.0E-06	0.01	23.0	3.16	6	18.4	73.7	92.1	41.5	UnDef	UnDef	6.0	UnDef	9.0	18.0
11.15	5.0E-07	0.01	20.8	3.32	6	17.4	69.8	87.2	44.2	UnDef	UnDef	6.0	UnDef	11.4	22.8
12.14	5.0E-07	0.02	21.9	3.52	6	19.1	76.3	95.4	44.2	UnDef	UnDef	6.0	UnDef	12.4	24.9
13.21	5.0E-06	0.03	24.4	3.20	6	22.1	88.4	110.5	40.6	UnDef	UnDef	6.0	UnDef	10.8	21.6

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60cs	(N1)60cs
14.27	5.0E-06	0.04	26.9	3.15	6	25.2	100.7	125.9	38.7	UnDef	UnDef	6.0	UnDef	12.3	24.6
15.26	5.0E-06	0.07	28.1	2.96	6	27.1	108.3	135.4	37.1	UnDef	UnDef	6.0	UnDef	13.3	26.5
16.24	5.0E-06	0.02	20.2	3.09	6	20.3	81.3	101.6	43.7	UnDef	UnDef	6.0	UnDef	9.9	19.9
17.22	5.0E-06	0.04	20.4	2.93	6	21.1	84.5	105.7	42.7	UnDef	UnDef	6.0	UnDef	10.3	20.7
18.21	5.0E-06	0.04	19.2	3.25	6	20.5	81.9	102.4	45.4	UnDef	UnDef	6.0	UnDef	10.0	20.0
19.19	5.0E-06	0.08	17.7	3.32	6	19.4	77.7	97.1	47.4	UnDef	UnDef	6.0	UnDef	9.5	19.0
20.18	5.0E-06	0.09	15.9	3.43	4	18.0	71.9	89.9	50.1	UnDef	UnDef	6.0	UnDef	8.8	17.6
21.16	5.0E-07	0.07	14.9	3.80	1	17.3	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
22.15	5.0E-07	0.00	9.4	3.68	1	11.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
23.13	5.0E-06	0.07	11.6	3.04	4	14.3	57.4	71.7	55.0	UnDef	UnDef	3.0	UnDef	7.0	14.0
24.11	5.0E-06	0.11	12.5	3.63	1	15.7	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
25.10	5.0E-06	0.09	9.4	2.74	4	12.3	49.1	61.4	58.4	UnDef	UnDef	3.0	UnDef	6.0	12.0
26.08	5.0E-06	0.15	7.8	3.11	4	10.7	42.8	53.4	65.0	UnDef	UnDef	3.0	UnDef	5.2	10.5
27.07	5.0E-06	0.18	6.9	3.03	4	9.8	39.1	48.9	67.7	UnDef	UnDef	3.0	UnDef	4.8	9.6
28.05	5.0E-06	0.21	7.1	2.59	4	10.1	40.5	50.6	64.6	UnDef	UnDef	3.0	UnDef	5.0	9.9
29.04	5.0E-06	0.18	7.1	2.93	4	10.3	41.1	51.3	66.7	UnDef	UnDef	3.0	UnDef	5.0	10.0
30.02	5.0E-05	0.17	9.2	1.89	6	13.2	52.7	65.9	53.3	30	30.0	3.0	0.02	5.2	10.3
31.00	5.0E-05	0.15	9.6	1.91	6	14.0	56.0	70.0	52.2	30	30.0	3.0	0.01	5.5	11.0
31.99	5.0E-05	0.20	9.6	1.88	6	14.1	56.5	70.6	52.2	30	30.0	3.0	0.02	5.5	11.1
32.97	5.0E-05	0.16	8.1	2.03	4	12.3	49.3	61.6	57.4	30	30.0	3.0	0.03	4.8	9.7
33.96	5.0E-05	0.19	8.5	2.24	4	13.0	52.0	65.1	57.7	30	30.0	3.0	0.02	5.1	10.2
34.94	5.0E-07	0.17	5.8	3.58	1	9.5	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
35.92	5.0E-06	0.21	4.9	2.41	4	8.4	33.6	42.0	73.4	UnDef	UnDef	1.5	UnDef	4.1	8.2
36.91	5.0E-06	0.22	4.7	2.72	4	8.2	32.9	41.1	76.8	UnDef	UnDef	1.5	UnDef	4.0	8.0
37.89	5.0E-06	0.29	5.6	2.60	4	9.6	38.5	48.2	70.9	UnDef	UnDef	1.5	UnDef	4.7	9.4
38.88	5.0E-06	0.27	7.4	2.75	4	12.4	49.5	61.8	64.3	UnDef	UnDef	3.0	UnDef	6.1	12.1
39.86	5.0E-06	0.23	7.6	2.63	4	12.8	51.2	64.0	63.0	UnDef	UnDef	3.0	UnDef	6.3	12.5
40.85	5.0E-05	0.14	8.8	2.47	4	14.6	58.5	73.2	58.4	30	30.0	3.0	0.00	5.7	11.5
41.83	5.0E-06	0.27	6.4	3.04	1	11.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
42.81	5.0E-06	0.20	5.7	2.95	1	10.2	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
43.80	5.0E-06	0.29	5.6	2.35	4	10.2	40.7	50.8	69.3	UnDef	UnDef	1.5	UnDef	5.0	10.0
44.78	5.0E-05	0.34	7.2	1.98	4	12.6	50.4	63.0	60.0	30	30.0	3.0	0.07	4.9	9.9
45.77	5.0E-05	0.35	6.4	1.82	4	11.5	45.9	57.4	61.8	30	30.0	3.0	0.08	4.5	9.0
46.75	5.0E-05	0.41	5.5	1.22	4	10.2	40.7	50.9	60.2	30	30.0	1.5	0.13	4.0	8.0
47.74	5.0E-05	0.37	7.7	1.61	6	13.7	54.6	68.3	55.3	30	30.0	3.0	0.07	5.3	10.7
48.72	5.0E-04	0.01	33.0	2.54	6	53.3	146.8	200.1	32.5	36	49.2	1.0	-0.17	14.7	32.1

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60cs	(N1)60cs
49.70	5.0E-04	0.01	36.5	1.86	7	59.1	86.7	145.7	27.3	38	52.2	1.0	-0.15	11.4	30.7
50.69	5.0E-02	0.00	83.3	0.99	9	133.4	31.5	164.9	12.1	42	75.5	1.0	-0.17	3.5	29.7
51.67	5.0E-04	0.03	22.3	1.85	6	37.3	147.5	184.8	34.9	34	39.0	1.0	-0.09	12.1	24.3
52.66	5.0E-05	0.12	15.3	2.19	6	26.3	105.1	131.3	44.2	32	30.0	6.0	-0.05	10.3	20.6
53.64	5.0E-05	0.10	12.3	2.29	6	21.5	86.1	107.7	49.4	30	30.0	3.0	-0.04	8.4	16.9
54.63	5.0E-05	0.12	9.8	2.31	4	17.6	70.4	88.0	54.7	30	30.0	3.0	-0.01	6.9	13.8
55.61	5.0E-03	0.01	61.8	1.91	7	102.0	74.2	176.3	20.8	40	67.9	1.0	-0.21	8.9	33.9
56.59	5.0E-04	0.00	68.0	3.20	7	112.7	137.0	249.7	25.5	40	70.7	1.0	-0.30	19.2	56.0
57.58	5.0E-04	0.00	48.7	2.46	7	81.7	110.4	192.1	26.5	38	61.5	1.0	-0.21	15.0	41.6
58.56	5.0E-06	0.00	17.0	4.17	1	29.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
59.55	5.0E-04	0.00	58.3	2.65	7	98.3	114.1	212.4	25.1	40	66.8	1.0	-0.25	16.2	48.3
60.53	5.0E-05	-0.01	50.8	3.04	6	86.4	146.4	232.7	28.6	38	63.1	10.0	-0.25	21.9	55.7
61.52	5.0E-05	0.04	10.8	2.96	4	20.1	80.4	100.5	56.2	30	30.0	3.0	-0.05	7.9	15.7
62.42	5.0E-05	0.06	10.1	3.11	4	19.1	76.2	95.3	58.5	30	30.0	3.0	-0.04	7.5	14.9
63.32	5.0E-05	0.14	7.4	2.83	4	14.5	57.8	72.3	65.0	30	30.0	3.0	0.02	5.7	11.3
64.30	5.0E-05	0.13	7.6	2.49	4	14.9	59.8	74.7	62.1	30	30.0	3.0	0.02	5.8	11.7
65.29	5.0E-06	0.19	8.9	3.26	4	17.3	69.1	86.4	62.5	UnDef	UnDef	3.0	UnDef	8.5	16.9
66.27	5.0E-06	0.18	9.0	3.26	4	17.6	70.2	87.8	62.2	UnDef	UnDef	3.0	UnDef	8.6	17.2
67.26	5.0E-06	0.18	10.9	3.53	1	20.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
68.24	5.0E-06	0.14	9.4	4.20	1	18.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
69.22	5.0E-06	0.17	8.6	3.45	1	17.1	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
70.21	5.0E-06	0.17	9.0	3.43	1	17.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
71.19	5.0E-06	0.21	8.4	3.35	1	16.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
72.18	5.0E-06	0.13	10.3	4.15	1	20.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
73.16	5.0E-06	0.17	6.0	3.08	1	12.8	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
74.15	5.0E-06	0.18	6.4	3.13	1	13.6	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
75.13	5.0E-05	0.25	6.6	2.85	4	14.0	56.1	70.1	68.0	30	30.0	3.0	0.05	5.5	11.0
76.11	5.0E-05	0.23	12.3	2.64	6	24.3	97.0	121.3	51.4	30	30.0	3.0	-0.03	9.5	19.0
77.10	5.0E-06	0.04	21.8	3.97	4	41.3	165.1	206.4	46.1	UnDef	UnDef	6.0	UnDef	20.2	40.4
78.08	5.0E-05	0.10	17.8	3.58	4	34.3	137.1	171.4	48.4	32	36.6	6.0	-0.13	13.4	26.8
79.07	5.0E-06	0.08	13.4	3.90	1	26.5	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
80.05	5.0E-03	0.01	81.6	1.65	7	149.3	65.6	214.9	16.4	42	78.8	1.0	-0.22	8.6	45.2
81.04	5.0E-04	-0.01	47.2	2.25	7	87.9	110.7	198.6	25.9	38	63.6	1.0	-0.20	15.3	44.0
82.02	5.0E-04	0.07	14.0	2.04	6	27.9	111.6	139.5	45.0	32	30.7	1.0	-0.05	9.1	18.2
83.00	5.0E-04	0.04	16.8	2.24	6	33.2	132.7	165.9	42.6	32	35.6	1.0	-0.08	10.8	21.6
83.99	5.0E-05	0.02	8.3	3.18	4	17.7	71.0	88.7	63.9	30	30.0	3.0	-0.02	6.9	13.9

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4205  
 CPT File: 399C02.COR

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
84.97	5.0E-05	0.06	7.1	2.76	4	15.6	62.6	78.2	65.5	30	30.0	3.0	0.01	6.1	12.2
85.96	5.0E-05	0.13	7.5	2.36	4	16.3	65.3	81.6	61.8	30	30.0	3.0	0.02	6.4	12.8
86.94	5.0E-05	0.15	9.5	2.22	4	20.1	80.6	100.7	54.8	30	30.0	3.0	0.00	7.9	15.8
87.93	5.0E-05	0.19	9.2	2.86	4	19.7	78.7	98.3	59.6	30	30.0	3.0	-0.01	7.7	15.4
88.91	5.0E-05	0.20	8.5	3.26	1	18.5	UnDef	UnDef	100.0	30	30.0	3.0	0.00	UnDef	UnDef
89.89	5.0E-05	0.23	8.9	2.64	4	19.4	77.4	96.8	58.9	30	30.0	3.0	0.01	7.6	15.2
90.88	5.0E-05	0.21	8.2	2.75	4	18.1	72.3	90.4	61.7	30	30.0	3.0	0.01	7.1	14.2
91.86	5.0E-05	0.27	10.4	2.67	4	22.2	88.8	111.0	55.5	30	30.0	3.0	0.00	8.7	17.4
92.85	5.0E-05	0.29	8.4	2.41	4	18.6	74.5	93.1	59.0	30	30.0	3.0	0.03	7.3	14.6
93.83	5.0E-05	0.32	8.8	2.11	4	19.5	77.9	97.3	55.8	30	30.0	3.0	0.04	7.6	15.2
94.82	5.0E-05	0.22	12.9	2.84	4	27.3	109.3	136.7	51.5	32	30.1	6.0	-0.04	10.7	21.4
95.80	5.0E-05	0.25	12.5	2.59	6	26.7	106.7	133.3	50.8	30	30.0	6.0	-0.03	10.4	20.9
96.78	5.0E-06	0.23	8.4	3.86	1	18.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
97.77	5.0E-05	0.32	7.4	2.89	4	17.0	68.0	85.0	65.3	30	30.0	3.0	0.04	6.7	13.3
98.75	5.0E-04	0.09	32.3	2.55	6	65.1	189.5	254.6	32.9	36	55.0	1.0	-0.16	18.5	39.7
99.74	5.0E-03	-0.01	100.0	1.76	7	196.4	72.2	268.6	15.1	42	86.6	1.0	-0.25	9.7	57.8
100.72	5.0E-03	-0.01	55.7	1.86	7	111.0	89.4	200.4	21.7	40	70.3	1.0	-0.19	10.5	37.7
101.70	5.0E-05	0.01	18.8	3.74	4	39.6	158.5	198.1	48.0	32	40.7	6.0	-0.16	15.5	31.0
102.69	5.0E-04	0.20	9.2	1.34	6	20.8	83.2	104.0	48.8	30	30.0	1.0	0.04	6.8	13.6
103.67	5.0E-04	0.26	9.6	1.48	6	21.7	86.9	108.6	49.0	30	30.0	1.0	0.04	7.1	14.2



Gregg In Situ, Inc.

Interpretation Output - Release 1.00.19e

Run No: 04-0105-1555-4259

Job No: 03-399ma

Client: DELTA

Project: CPT SITE INVESTIGATION

Site: 6750 SANTA RITA

Location: CPT-03

Engineer: D. ARNOLD

CPT Date: 03/18/12

CPT Time: 14:13

CPT File: 399C03.COR

Northing (m): 0.000

Easting (m): 0.000

Elevation (m): 0.000

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Water Table (m): 14.33 (ft): 47.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiolkowski - All Sands  
 State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	0.0	0.00	0.00	0.0	UnDef	124.1	0.34	0.34	0.00	1.73	UnDef	UnDef	UnDef	0.00
6.40	0.0	0.00	0.00	0.0	UnDef	124.1	0.40	0.40	0.00	1.59	UnDef	UnDef	UnDef	0.00
7.30	12.7	0.33	2.61	13.3	5	114.6	0.45	0.45	0.00	1.49	6.1	9.0	0.98	0.15
8.20	6.1	0.18	2.95	0.7	3	111.4	0.50	0.50	0.00	1.41	5.9	8.3	0.45	0.09
9.19	10.0	0.25	2.50	23.8	5	114.6	0.56	0.56	0.00	1.34	4.8	6.4	0.76	0.11
10.17	13.3	0.38	2.83	25.0	5	114.6	0.61	0.61	0.00	1.28	6.4	8.1	1.01	0.13
11.15	17.2	0.46	2.66	29.0	5	114.6	0.67	0.67	0.00	1.22	8.2	10.1	1.32	0.18
12.14	21.0	0.63	2.99	27.2	5	114.6	0.73	0.73	0.00	1.17	10.1	11.8	1.62	0.24
13.21	21.8	0.61	2.82	29.7	5	114.6	0.79	0.79	0.00	1.13	10.4	11.7	1.68	0.24

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
14.27	23.8	0.59	2.48	31.0	6	114.6	0.85	0.85	0.00	1.09	9.1	9.9	1.83	0.27
15.26	16.5	0.37	2.27	28.7	5	114.6	0.91	0.91	0.00	1.05	7.9	8.3	1.25	0.14
16.24	20.0	0.59	2.95	35.6	5	114.6	0.96	0.96	0.00	1.02	9.6	9.7	1.52	0.17
17.22	18.5	0.60	3.24	18.2	5	114.6	1.02	1.02	0.00	0.99	8.9	8.8	1.40	0.15
18.21	18.1	0.65	3.60	20.1	4	114.6	1.07	1.07	0.00	0.96	11.5	11.1	1.36	0.00
19.19	18.1	0.70	3.89	22.8	4	114.6	1.13	1.13	0.00	0.94	11.6	10.9	1.36	0.00
20.18	17.6	0.66	3.76	22.0	4	114.6	1.19	1.19	0.00	0.92	11.3	10.3	1.32	0.00
21.16	14.1	0.43	3.08	22.1	4	114.6	1.24	1.24	0.00	0.90	9.0	8.0	1.02	0.10
22.15	18.3	0.65	3.56	57.7	4	114.6	1.30	1.30	0.00	0.88	11.7	10.2	1.36	0.00
23.13	21.6	0.77	3.59	53.9	4	114.6	1.36	1.36	0.00	0.86	13.8	11.8	1.62	0.00
24.11	17.6	0.56	3.19	18.0	5	114.6	1.41	1.41	0.00	0.84	8.4	7.1	1.29	0.12
25.10	12.4	0.25	2.00	44.7	5	114.6	1.47	1.47	0.00	0.83	6.0	4.9	0.88	0.09
26.08	12.7	0.26	2.06	72.6	5	114.6	1.53	1.53	0.00	0.81	6.1	4.9	0.89	0.09
27.07	14.0	0.40	2.84	66.9	5	114.6	1.58	1.58	0.00	0.80	6.7	5.3	0.99	0.00
28.05	22.0	0.61	2.76	56.2	5	114.6	1.64	1.64	0.00	0.78	10.6	8.2	1.63	0.14
29.04	54.6	1.71	3.14	20.3	6	114.6	1.69	1.69	0.00	0.77	20.9	16.1	4.23	0.00
30.02	29.1	1.04	3.56	37.3	5	114.6	1.75	1.75	0.00	0.76	13.9	10.5	2.19	0.20
31.00	30.2	1.04	3.45	21.7	5	114.6	1.81	1.81	0.00	0.74	14.5	10.8	2.27	0.20
31.99	26.8	0.69	2.56	32.0	6	114.6	1.86	1.86	0.00	0.73	10.3	7.5	1.99	0.16
32.97	14.7	0.40	2.72	42.2	5	114.6	1.92	1.92	0.00	0.72	7.0	5.1	1.02	0.00
33.96	16.4	0.44	2.65	62.6	5	114.6	1.98	1.98	0.00	0.71	7.9	5.6	1.16	0.10
34.94	12.3	0.33	2.68	55.1	5	114.6	2.03	2.03	0.00	0.70	5.9	4.1	0.82	0.00
35.92	12.9	0.31	2.37	68.1	5	114.6	2.09	2.09	0.00	0.69	6.2	4.3	0.86	0.09
36.91	15.6	0.51	3.28	78.3	4	114.6	2.15	2.15	0.00	0.68	10.0	6.8	1.08	0.00
37.89	17.7	0.36	2.06	124.9	6	114.6	2.20	2.20	0.00	0.67	6.8	4.6	1.24	0.10
38.88	15.8	0.36	2.30	127.2	5	114.6	2.26	2.26	0.00	0.67	7.6	5.0	1.08	0.09
39.86	14.0	0.30	2.11	115.8	5	114.6	2.31	2.31	0.00	0.66	6.7	4.4	0.93	0.09
40.85	15.3	0.42	2.76	97.1	5	114.6	2.37	2.37	0.00	0.65	7.3	4.8	1.03	0.00
41.83	13.7	0.28	2.08	132.8	5	114.6	2.43	2.43	0.00	0.64	6.5	4.2	0.90	0.09
42.81	18.9	0.38	2.01	178.7	6	114.6	2.48	2.48	0.00	0.63	7.3	4.6	1.32	0.10
43.80	15.6	0.33	2.13	146.7	5	114.6	2.54	2.54	0.00	0.63	7.5	4.7	1.04	0.09
44.78	16.2	0.28	1.74	163.4	6	114.6	2.60	2.60	0.00	0.62	6.2	3.9	1.09	0.09
45.77	60.0	1.00	1.67	153.6	7	117.8	2.65	2.65	0.00	0.61	19.1	11.7	UnDef	0.00
46.75	271.0	1.47	0.54	-5.7	9	124.1	2.71	2.71	0.00	0.61	51.9	31.5	UnDef	0.00
47.74	289.4	2.66	0.92	-11.2	9	124.1	2.77	2.75	0.02	0.60	55.4	33.4	UnDef	0.00
48.72	249.4	2.55	1.02	-11.0	9	124.1	2.84	2.78	0.05	0.60	47.8	28.6	UnDef	0.00

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
49.70	137.4	2.48	1.80	28.7	7	117.8	2.90	2.81	0.08	0.60	43.9	26.2	UnDef	0.45
50.69	240.4	2.05	0.85	-12.4	9	124.1	2.95	2.84	0.12	0.59	46.1	27.3	UnDef	0.00
51.67	211.2	2.21	1.05	-13.1	9	124.1	3.02	2.87	0.15	0.59	40.5	23.9	UnDef	0.00
52.66	213.0	3.23	1.52	-15.1	8	120.9	3.08	2.90	0.18	0.59	51.0	29.9	UnDef	0.00
53.64	53.9	1.49	2.76	42.2	6	114.6	3.13	2.93	0.21	0.58	20.6	12.1	4.06	0.42
54.63	118.5	2.20	1.85	30.5	7	117.8	3.19	2.95	0.24	0.58	37.8	22.0	UnDef	0.45
55.61	109.6	2.87	2.62	23.7	7	117.8	3.25	2.98	0.27	0.58	35.0	20.3	UnDef	0.00
56.59	224.5	4.43	1.97	-12.6	8	120.9	3.31	3.01	0.30	0.58	53.7	31.0	UnDef	0.00
57.58	130.1	3.62	2.78	-6.1	7	117.8	3.37	3.04	0.33	0.57	41.5	23.8	UnDef	0.00
58.56	117.7	3.11	2.64	43.6	7	117.8	3.42	3.06	0.36	0.57	37.6	21.5	UnDef	0.00
59.55	134.0	3.33	2.48	-3.0	7	117.8	3.48	3.09	0.39	0.57	42.8	24.3	UnDef	0.00
60.53	85.8	2.69	3.13	182.9	6	114.6	3.54	3.12	0.42	0.57	32.9	18.6	6.58	0.00
61.52	34.9	0.96	2.74	91.1	6	114.6	3.60	3.14	0.45	0.56	13.4	7.5	2.50	0.16
62.42	24.8	0.46	1.85	173.6	6	114.6	3.65	3.17	0.48	0.56	9.5	5.3	1.69	0.11
63.32	22.4	0.43	1.92	175.8	6	114.6	3.70	3.19	0.51	0.56	8.6	4.8	1.49	0.10
64.30	24.8	0.55	2.20	203.5	6	114.6	3.76	3.22	0.54	0.56	9.5	5.3	1.68	0.11
65.29	28.6	0.76	2.67	245.3	5	114.6	3.81	3.24	0.57	0.56	13.7	7.6	1.98	0.12
66.27	33.7	0.85	2.53	331.2	6	114.6	3.87	3.27	0.60	0.55	12.9	7.1	2.39	0.15
67.26	37.6	0.80	2.13	407.8	6	114.6	3.93	3.29	0.63	0.55	14.4	7.9	2.69	0.18
68.24	37.6	0.95	2.52	390.1	6	114.6	3.98	3.32	0.66	0.55	14.4	7.9	2.69	0.18
69.22	33.8	0.96	2.82	323.8	5	114.6	4.04	3.34	0.69	0.55	16.2	8.9	2.38	0.15
70.21	25.7	0.67	2.61	239.5	5	114.6	4.09	3.37	0.72	0.54	12.3	6.7	1.73	0.00
71.19	23.3	0.59	2.55	229.1	5	114.6	4.15	3.40	0.76	0.54	11.1	6.0	1.53	0.00
72.18	23.9	0.47	1.99	251.6	6	114.6	4.21	3.42	0.79	0.54	9.1	4.9	1.57	0.10
73.16	21.6	0.44	2.03	288.1	6	114.6	4.26	3.45	0.82	0.54	8.3	4.5	1.39	0.10
74.15	28.0	0.56	2.00	341.4	6	114.6	4.32	3.47	0.85	0.54	10.7	5.8	1.90	0.12
75.13	26.4	0.54	2.06	331.8	6	114.6	4.38	3.50	0.88	0.53	10.1	5.4	1.76	0.11
76.11	25.9	0.67	2.58	315.9	6	114.6	4.43	3.52	0.91	0.53	9.9	5.3	1.72	0.00
77.10	94.6	3.06	3.24	299.8	6	114.6	4.49	3.55	0.94	0.53	36.2	19.2	7.21	0.00
78.08	123.6	4.44	3.59	190.9	6	114.6	4.55	3.57	0.97	0.53	47.3	25.0	9.52	0.00
79.07	49.1	1.33	2.71	244.2	6	114.6	4.60	3.60	1.00	0.53	18.8	9.9	3.56	0.27
80.05	55.1	1.54	2.80	248.6	6	114.6	4.66	3.63	1.03	0.53	21.1	11.1	4.04	0.34
81.04	39.1	1.25	3.18	152.2	5	114.6	4.71	3.65	1.06	0.52	18.7	9.8	2.75	0.00
82.02	27.2	0.69	2.54	218.4	6	114.6	4.77	3.68	1.09	0.52	10.4	5.4	1.80	0.00
83.00	28.9	0.59	2.05	282.2	6	114.6	4.83	3.70	1.12	0.52	11.1	5.8	1.92	0.12
83.99	29.5	0.68	2.30	286.4	6	114.6	4.88	3.73	1.15	0.52	11.3	5.9	1.97	0.12

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4259  
 CPT File: 399C03.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
84.97	34.7	0.81	2.33	358.2	6	114.6	4.94	3.75	1.19	0.52	13.3	6.9	2.38	0.14
85.96	32.3	0.98	3.03	278.5	5	114.6	5.00	3.78	1.22	0.51	15.5	7.9	2.18	0.00
86.94	36.4	1.15	3.15	292.9	5	114.6	5.05	3.81	1.25	0.51	17.4	8.9	2.51	0.00
87.93	40.1	0.79	1.96	312.0	6	114.6	5.11	3.83	1.28	0.51	15.4	7.9	2.80	0.17
88.91	38.4	0.97	2.52	335.8	6	114.6	5.17	3.86	1.31	0.51	14.7	7.5	2.66	0.16
89.89	42.0	1.16	2.76	359.4	6	114.6	5.22	3.88	1.34	0.51	16.1	8.2	2.94	0.19
90.88	37.9	0.82	2.15	382.0	6	114.6	5.28	3.91	1.37	0.51	14.5	7.4	2.61	0.16
91.86	40.1	0.88	2.19	431.0	6	114.6	5.33	3.93	1.40	0.50	15.4	7.7	2.78	0.17
92.85	38.5	0.85	2.22	414.5	6	114.6	5.39	3.96	1.43	0.50	14.7	7.4	2.65	0.16
93.83	46.9	1.25	2.66	342.0	6	114.6	5.45	3.99	1.46	0.50	18.0	9.0	3.31	0.22
94.82	33.4	0.77	2.32	392.8	6	114.6	5.50	4.01	1.49	0.50	12.8	6.4	2.23	0.13
95.80	33.1	0.84	2.55	381.4	6	114.6	5.56	4.04	1.52	0.50	12.7	6.3	2.21	0.00
96.78	64.4	1.96	3.05	492.9	6	114.6	5.62	4.06	1.55	0.50	24.7	12.3	4.70	0.43
97.77	271.8	4.16	1.53	-3.6	8	120.9	5.67	4.09	1.59	0.50	65.1	32.5	UnDef	0.00
98.75	130.9	5.33	4.07	22.4	11	130.5	5.74	4.12	1.62	0.50	125.4	62.7	UnDef	0.00
99.74	53.6	1.55	2.90	188.5	6	114.6	5.80	4.15	1.65	0.50	20.5	10.3	3.82	0.28
100.72	42.5	0.81	1.90	240.8	6	114.6	5.85	4.18	1.68	0.50	16.3	8.1	2.93	0.18
101.70	39.4	0.85	2.17	320.2	6	114.6	5.91	4.20	1.71	0.50	15.1	7.5	2.68	0.16
102.69	37.8	0.74	1.95	371.3	6	114.6	5.97	4.23	1.74	0.50	14.5	7.2	2.54	0.15

Gregg In Situ, Inc.  
 Interpretation Output - Release 1.00.19e  
 Run No: 04-0105-1555-4259  
 Job No: 03-399ma  
 Client: DELTA  
 Project: CPT SITE INVESTIGATION  
 Site: 6750 SANTA RITA  
 Location: CPT-03  
 Engineer: D. ARNOLD  
 CPT Date: 03/18/12  
 CPT Time: 14:13  
 CPT File: 399C03.COR  
 Northing (m): 0.000  
 Easting (m): 0.000  
 Elevation (m): 0.000

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 Water Table (m): 14.33 (ft): 47.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiołkowski - All Sands  
 State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
6.40	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
7.30	5.0E-06	0.03	27.1	2.70	6	18.5	73.9	92.4	36.5	UnDef	UnDef	6.0	UnDef	9.0	18.1
8.20	5.0E-08	0.00	11.2	3.21	4	8.5	33.8	42.3	56.7	UnDef	UnDef	3.0	UnDef	8.3	16.6
9.19	5.0E-06	0.08	17.0	2.65	6	13.1	52.5	65.7	44.7	UnDef	UnDef	6.0	UnDef	6.4	12.9
10.17	5.0E-06	0.06	20.6	2.97	6	16.6	66.3	82.9	42.7	UnDef	UnDef	6.0	UnDef	8.1	16.2
11.15	5.0E-06	0.05	24.7	2.77	6	20.6	82.3	102.9	38.4	UnDef	UnDef	6.0	UnDef	10.1	20.1
12.14	5.0E-06	0.04	27.9	3.09	6	24.2	96.6	120.8	37.8	UnDef	UnDef	6.0	UnDef	11.8	23.6
13.21	5.0E-06	0.04	26.6	2.93	6	24.0	96.0	120.0	37.9	UnDef	UnDef	6.0	UnDef	11.7	23.5

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60	(N1)60cs
14.27	5.0E-05	0.04	27.0	2.57	6	25.2	100.9	126.2	35.8	36	30.0	6.0	-0.14	9.9	19.8
15.26	5.0E-06	0.06	17.2	2.40	6	16.9	67.8	84.7	43.1	UnDef	UnDef	6.0	UnDef	8.3	16.6
16.24	5.0E-06	0.06	19.7	3.10	6	19.9	79.6	99.5	44.1	UnDef	UnDef	6.0	UnDef	9.7	19.5
17.22	5.0E-06	0.03	17.2	3.43	4	17.9	71.8	89.7	48.5	UnDef	UnDef	6.0	UnDef	8.8	17.6
18.21	5.0E-07	0.04	15.8	3.83	1	17.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-07	0.04	15.0	4.14	1	16.7	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
20.18	5.0E-07	0.04	13.8	4.03	1	15.8	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
21.16	5.0E-07	0.05	10.3	3.38	4	12.3	49.3	61.6	59.6	UnDef	UnDef	3.0	UnDef	8.0	16.1
22.15	5.0E-07	0.11	13.0	3.83	1	15.7	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
23.13	5.0E-07	0.08	14.9	3.83	1	18.1	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
24.11	5.0E-06	0.03	11.5	3.47	4	14.5	58.0	72.4	57.5	UnDef	UnDef	3.0	UnDef	7.1	14.2
25.10	5.0E-06	0.13	7.5	2.27	4	10.0	40.2	50.2	61.1	UnDef	UnDef	3.0	UnDef	4.9	9.8
26.08	5.0E-06	0.20	7.3	2.34	4	10.0	40.1	50.1	62.1	UnDef	UnDef	3.0	UnDef	4.9	9.8
27.07	5.0E-06	0.17	7.9	3.20	1	10.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
28.05	5.0E-06	0.09	12.5	2.98	4	16.9	67.4	84.3	53.1	UnDef	UnDef	3.0	UnDef	8.2	16.5
29.04	5.0E-05	0.01	31.2	3.24	6	41.0	164.1	205.1	36.7	36	41.7	6.0	-0.20	16.1	32.1
30.02	5.0E-06	0.04	15.6	3.79	4	21.5	86.1	107.6	52.1	UnDef	UnDef	6.0	UnDef	10.5	21.1
31.00	5.0E-06	0.02	15.7	3.67	4	22.0	88.1	110.1	51.4	UnDef	UnDef	6.0	UnDef	10.8	21.5
31.99	5.0E-05	0.04	13.4	2.75	6	19.2	76.8	96.0	50.3	32	30.0	6.0	-0.07	7.5	15.0
32.97	5.0E-06	0.10	6.7	3.13	1	10.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
33.96	5.0E-06	0.14	7.3	3.02	4	11.4	45.7	57.2	66.3	UnDef	UnDef	3.0	UnDef	5.6	11.2
34.94	5.0E-06	0.17	5.0	3.21	1	8.4	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
35.92	5.0E-06	0.20	5.2	2.83	4	8.7	34.9	43.6	74.9	UnDef	UnDef	1.5	UnDef	4.3	8.5
36.91	5.0E-07	0.18	6.3	3.81	1	10.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
37.89	5.0E-05	0.25	7.0	2.36	4	11.6	46.6	58.2	63.3	30	30.0	3.0	0.05	4.6	9.1
38.88	5.0E-06	0.29	6.0	2.69	4	10.3	41.2	51.5	69.7	UnDef	UnDef	1.5	UnDef	5.0	10.1
39.86	5.0E-06	0.31	5.0	2.53	4	9.0	36.0	45.0	73.6	UnDef	UnDef	1.5	UnDef	4.4	8.8
40.85	5.0E-06	0.23	5.5	3.27	1	9.7	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
41.83	5.0E-06	0.37	4.6	2.53	4	8.6	34.3	42.9	76.2	UnDef	UnDef	1.5	UnDef	4.2	8.4
42.81	5.0E-05	0.34	6.6	2.32	4	11.8	47.0	58.8	64.5	30	30.0	3.0	0.07	4.6	9.2
43.80	5.0E-06	0.35	5.1	2.54	4	9.6	38.2	47.8	73.2	UnDef	UnDef	1.5	UnDef	4.7	9.3
44.78	5.0E-05	0.37	5.3	2.07	4	9.9	39.4	49.3	69.1	30	30.0	1.5	0.10	3.9	7.7
45.77	5.0E-04	0.08	21.6	1.74	6	36.0	139.5	175.5	34.8	34	38.0	1.0	-0.08	11.6	23.4
46.75	5.0E-02	0.00	98.9	0.55	9	161.0	10.3	171.4	7.3	42	80.9	1.0	-0.13	1.2	32.8
47.74	5.0E-02	0.00	104.2	0.93	9	170.7	25.3	196.0	9.8	42	82.6	1.0	-0.18	2.9	36.3
48.72	5.0E-02	0.00	88.6	1.03	9	146.3	33.0	179.3	11.9	42	78.2	1.0	-0.18	3.7	32.4

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del Param	(n1)60	(N1)60cs
49.70	5.0E-04	0.01	47.8	1.84	7	80.2	78.3	158.5	23.5	38	60.9	1.0	-0.17	11.7	37.9
50.69	5.0E-02	0.00	83.6	0.86	9	139.6	27.6	167.2	11.2	42	76.8	1.0	-0.16	3.1	30.5
51.67	5.0E-02	0.00	72.5	1.06	9	122.0	38.1	160.1	13.9	40	73.0	1.0	-0.16	4.2	28.1
52.66	5.0E-03	0.00	72.4	1.54	7	122.4	57.6	180.0	17.0	40	73.1	1.0	-0.20	7.5	37.4
53.64	5.0E-05	0.02	17.3	2.93	6	30.8	123.3	154.1	45.8	32	33.5	6.0	-0.11	12.1	24.1
54.63	5.0E-04	0.01	39.0	1.90	7	67.5	91.5	159.0	26.6	38	56.0	1.0	-0.16	12.4	34.4
55.61	5.0E-04	0.00	35.7	2.70	6	62.1	161.7	223.8	32.1	38	53.6	1.0	-0.19	16.7	37.0
56.59	5.0E-03	0.00	73.5	2.00	7	126.7	78.7	205.4	19.4	40	74.0	1.0	-0.23	9.8	40.8
57.58	5.0E-04	0.00	41.7	2.85	6	73.0	155.6	228.6	30.5	38	58.3	1.0	-0.22	17.7	41.5
58.56	5.0E-04	0.01	37.3	2.72	6	65.8	159.4	225.2	31.5	38	55.3	1.0	-0.20	17.1	38.5
59.55	5.0E-04	0.00	42.2	2.55	7	74.6	131.4	206.0	28.9	38	58.9	1.0	-0.20	16.2	40.5
60.53	5.0E-05	0.06	26.4	3.26	6	47.6	190.3	237.9	39.6	36	46.0	6.0	-0.17	18.6	37.2
61.52	5.0E-05	0.08	10.0	3.06	4	19.2	77.0	96.2	58.7	30	30.0	3.0	-0.04	7.5	15.1
62.42	5.0E-05	0.23	6.7	2.18	4	13.6	54.5	68.1	63.4	30	30.0	3.0	0.05	5.3	10.7
63.32	5.0E-05	0.27	5.9	2.30	4	12.3	49.1	61.3	67.7	30	30.0	1.5	0.07	4.8	9.6
64.30	5.0E-05	0.28	6.5	2.60	4	13.5	54.1	67.7	66.7	30	30.0	3.0	0.05	5.3	10.6
65.29	5.0E-06	0.29	7.6	3.08	4	15.5	62.1	77.7	65.5	UnDef	UnDef	3.0	UnDef	7.6	15.2
66.27	5.0E-05	0.33	9.1	2.85	4	18.3	73.0	91.3	59.7	30	30.0	3.0	0.02	7.1	14.3
67.26	5.0E-05	0.36	10.2	2.37	4	20.3	81.1	101.3	54.0	30	30.0	3.0	0.02	7.9	15.9
68.24	5.0E-05	0.34	10.1	2.81	4	20.2	80.8	101.0	56.9	30	30.0	3.0	0.01	7.9	15.8
69.22	5.0E-06	0.32	8.9	3.21	4	18.1	72.5	90.6	62.2	UnDef	UnDef	3.0	UnDef	8.9	17.7
70.21	5.0E-06	0.31	6.4	3.10	1	13.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
71.19	5.0E-06	0.33	5.6	3.10	1	12.4	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
72.18	5.0E-05	0.36	5.7	2.41	4	12.6	50.5	63.1	69.1	30	30.0	1.5	0.09	4.9	9.9
73.16	5.0E-05	0.47	5.0	2.53	4	11.4	45.5	56.9	73.7	30	30.0	1.5	0.12	4.5	8.9
74.15	5.0E-05	0.41	6.8	2.37	4	14.7	58.9	73.6	64.1	30	30.0	3.0	0.08	5.8	11.5
75.13	5.0E-05	0.43	6.3	2.47	4	13.8	55.3	69.1	67.0	30	30.0	3.0	0.09	5.4	10.8
76.11	5.0E-05	0.42	6.1	3.12	1	13.5	UnDef	UnDef	100.0	30	30.0	1.5	0.09	UnDef	UnDef
77.10	5.0E-05	0.09	25.4	3.40	6	49.1	196.5	245.6	40.9	34	46.9	6.0	-0.17	19.2	38.5
78.08	5.0E-05	0.04	33.3	3.73	6	64.0	255.8	319.8	37.7	36	54.5	6.0	-0.23	25.0	50.1
79.07	5.0E-05	0.15	12.3	2.99	4	25.3	101.2	126.5	53.3	30	30.0	3.0	-0.05	9.9	19.8
80.05	5.0E-05	0.13	13.9	3.06	4	28.3	113.3	141.6	51.0	32	31.1	6.0	-0.07	11.1	22.2
81.04	5.0E-06	0.11	9.4	3.62	1	20.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
82.02	5.0E-05	0.25	6.1	3.08	1	13.9	UnDef	UnDef	100.0	30	30.0	1.5	0.05	UnDef	UnDef
83.00	5.0E-05	0.32	6.5	2.47	4	14.7	58.8	73.5	66.1	30	30.0	3.0	0.06	5.8	11.5
83.99	5.0E-05	0.32	6.6	2.76	4	15.0	59.8	74.8	67.5	30	30.0	3.0	0.06	5.9	11.7

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del Param	Del(n1)60	(N1)60cs
84.97	5.0E-05	0.34	7.9	2.72	4	17.5	70.2	87.7	62.4	30	30.0	3.0	0.04	6.9	13.7
85.96	5.0E-06	0.27	7.2	3.59	1	16.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
86.94	5.0E-06	0.25	8.2	3.66	1	18.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
87.93	5.0E-05	0.24	9.1	2.25	4	20.1	80.3	100.3	55.9	30	30.0	3.0	0.02	7.9	15.7
88.91	5.0E-05	0.28	8.6	2.91	4	19.1	76.5	95.6	61.5	30	30.0	3.0	0.02	7.5	15.0
89.89	5.0E-05	0.27	9.5	3.15	4	20.9	83.5	104.4	60.4	30	30.0	3.0	0.00	8.2	16.3
90.88	5.0E-05	0.32	8.4	2.50	4	18.8	75.1	93.9	59.7	30	30.0	3.0	0.04	7.4	14.7
91.86	5.0E-05	0.35	8.8	2.52	4	19.8	79.2	99.0	58.5	30	30.0	3.0	0.03	7.7	15.5
92.85	5.0E-05	0.35	8.4	2.58	4	18.9	75.7	94.6	60.2	30	30.0	3.0	0.04	7.4	14.8
93.83	5.0E-05	0.22	10.4	3.01	4	23.0	91.9	114.9	57.4	30	30.0	3.0	-0.02	9.0	18.0
94.82	5.0E-05	0.39	6.9	2.78	4	16.3	65.2	81.5	66.3	30	30.0	3.0	0.07	6.4	12.8
95.80	5.0E-05	0.38	6.8	3.06	1	16.1	UnDef	UnDef	100.0	30	30.0	3.0	0.06	UnDef	UnDef
96.78	5.0E-05	0.24	14.5	3.34	4	31.3	125.0	156.3	51.6	32	33.9	6.0	-0.07	12.3	24.7
97.77	5.0E-03	-0.01	65.1	1.56	7	131.5	72.1	203.6	18.3	40	75.1	1.0	-0.19	9.3	41.8
98.75	1.0E-15	-0.01	30.4	4.25	6	63.1	252.5	315.6	41.2	36	54.1	1.0	-0.26	62.7	125.4
99.74	5.0E-05	0.09	11.5	3.25	4	25.7	102.9	128.6	56.3	30	30.0	3.0	-0.06	10.3	20.5
100.72	5.0E-05	0.16	8.8	2.21	4	20.4	81.4	101.8	56.6	30	30.0	3.0	0.01	8.1	16.3
101.70	5.0E-05	0.25	8.0	2.55	4	18.8	75.1	93.9	61.3	30	30.0	3.0	0.03	7.5	15.1
102.69	5.0E-05	0.31	7.5	2.32	4	18.0	71.9	89.9	61.2	30	30.0	3.0	0.05	7.2	14.5





# Gregg In Situ

Environmental and Geotechnical Site Investigation Contractors

## Gregg In Situ CPT Interpretations as of January 7, 1999 (Release 1.00.19)

Gregg In Situ's interpretation routine should be considered a calculator of current published CPT correlations and is subject to change to reflect the current state of practice. The interpreted values are not considered valid for all soil types. The interpretations are presented only as a guide for geotechnical use and should be carefully scrutinized for consideration in any geotechnical design. Reference to current literature is strongly recommended.

The CPT interpretations are based on values of tip, sleeve friction and pore pressure averaged over a user specified interval (typically 0.25m). Note that  $Q_t$  is the recorded tip value,  $Q_c$ , corrected for pore pressure effects. Since all Gregg In Situ cones have equal end area friction sleeves, pore pressure corrections to sleeve friction,  $F_s$ , are not required.

The tip correction is:  $Q_t = Q_c + (1-a) \cdot U_d$

where:  $Q_t$  is the corrected tip load

$Q_c$  is the recorded tip load

$U_d$  is the recorded dynamic pore pressure

$a$  is the Net Area Ratio for the cone (typically 0.85 for Gregg In Situ cones)

Effective vertical overburden stresses are calculated based on a hydrostatic distribution of equilibrium pore pressures below the water table or from a user defined equilibrium pore pressure profile (this can be obtained from CPT dissipation tests). The stress calculations use unit weights assigned to the Soil Behavior Type zones or from a user defined unit weight profile.

Details regarding the interpretation methods for all of the interpreted parameters is given in table 1. The appropriate references referred to in table 1 are listed in table 2.

The estimated Soil Behavior Type is based on the charts developed by Robertson and Campanella shown in figure 1.

Table 1 CPT Interpretation Methods

Interpreted Parameter	Description	Equation	Ref
Depth	mid layer depth		
Avg $Q_t$	Averaged corrected tip ( $Q_t$ )	$AvgQ_t = \frac{1}{n} \sum_{i=1}^n Q_{t_i}$	
Avg $F_s$	Averaged sleeve friction ( $F_s$ )	$AvgF_s = \frac{1}{n} \sum_{i=1}^n F_{s_i}$	
Avg $R_f$	Averaged friction ratio ( $R_f$ )	$AvgR_f = 100\% \cdot \frac{AvgF_s}{AvgQ_t}$	
Avg $U_d$	Averaged dynamic pore pressure ( $U_d$ )	$AvgU_d = \frac{1}{n} \sum_{i=1}^n U_{d_i}$	
SBT	Soil Behavior Type as defined by Robertson and Campanella		1

CPT Interpretations

U.Wt.	Unit Weight of soil determined from: 1) uniform value or 2) value assigned to each SBT zone 3) user supplied unit weight profile		
TStress	Total vertical overburden stress at mid layer depth	$TStress = \sum_{i=1}^n \gamma_i h_i$ where $\gamma_i$ is layer unit weight $h_i$ is layer thickness	
EStress	Effective vertical overburden stress at mid layer depth	$EStress = TStress - Ueq$	
Ueq	Equilibrium pore pressure determined from: 1) hydrostatic from water table depth 2) user supplied profile		
Cn	SPT $N_{60}$ overburden correction factor	$Cn = (\sigma_v')^{-0.5}$ where $\sigma_v'$ is in tsf $0.5 < Cn < 2.0$	
$N_{60}$	SPT N value at 60% energy calculated from Qt/N ratios assigned to each SBT zone		3
$(N1)_{60}$	SPT $N_{60}$ value corrected for overburden pressure	$N1_{60} = Cn \cdot N_{60}$	3
$\Delta(N1)_{60}$	Equivalent Clean Sand Correction to $(N1)_{60}$	$\Delta(N1)_{60} = \frac{K_{SPT}}{1 - K_{SPT}} \cdot (N1)_{60}$  Where: $K_{SPT}$ is defined as:  0.0 for FC < 5% 0.0167 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35%  FC - Fines Content in %	7
$(N1)_{60cs}$	Equivalent Clean Sand $(N1)_{60}$	$(N1)_{60cs} = (N1)_{60} + \Delta(N1)_{60}$	7
Su	Undrained shear strength - Nkt is use selectable	$Su = \frac{Qt - \sigma_v}{Nkt}$	2
k	Coefficient of permeability (assigned to each SBT zone)		6
Bq	Pore pressure parameter	$Bq = \frac{\Delta u}{Qt - \sigma_v}$	2
Qtn	Normalized Qt for Soil Behavior Type classification as defined by Robertson, 1990	$Qtn = \frac{Qt - \sigma_v}{\sigma_v}$	4
Rfn	Normalized Rf for Soil Behavior Type classification as defined by Robertson, 1990	$Rfn = 100\% \cdot \frac{f_s}{Qt - \sigma_v}$	4
SBTn	Normalized Soil Behavior Type (slightly modified from that published by Robertson, 1990. This version includes all the soil zones of the original non-normalized SBT chart - see figure 1)		4
Qc1	Normalized Qt for seismic analysis	$qc1 = qc \cdot (Pa/\sigma_v')^{0.5}$ where: Pa = atm. pressure	5
Qc1N	Dimensionless Normalized Qt1	$qc1N = qc1 / Pa$ where: Pa = atm. pressure	

### CPT Interpretations

$\Delta Q_{c1N1}$	Equivalent clean sand correction	$\Delta q_{c1N} = \frac{K_{CPT}}{1 - K_{CPT}} \cdot q_{c1N}$ <p>Where: <math>K_{CPT}</math> is defined as:</p> <p>0.0 for FC &lt; 5%          0.0267 • (FC - 5) for 5% &lt; FC &lt; 35%          0.5 for FC &gt; 35%</p> <p>FC - Fines Content in %</p>	5
$Q_{c1Ncs}$	Clean Sand equivalent $Q_{c1N}$	$q_{c1Ncs} = q_{c1N} + \Delta q_{c1N}$	5
$I_c$	Soil index for estimating grain characteristics	$I_c = [(3.47 - \log Q)^2 + (\log F + 1.22)^2]^{0.5}$	5
FC	Fines content (%)	$FC = 1.75(I_c^{3.25}) - 3.7$ $FC = 100$ for $I_c > 3.5$ $FC = 0$ for $I_c < 1.26$ $FC = 5\%$ if $1.64 < I_c < 2.6$ AND $R_{fn} < 0.5$	8
PHI	Friction Angle	Campanella and Robertson Durunoglu and Mitchel Janbu	1
$D_r$	Relative Density	Ticino Sand Hokksund Sand Schmertmann 1976 Jamiolkowski - All Sands	1
OCR	Over Consolidation Ratio		1
State Parameter			9
CRR	Cyclic Resistance Ratio		7

# CPT Interpretations

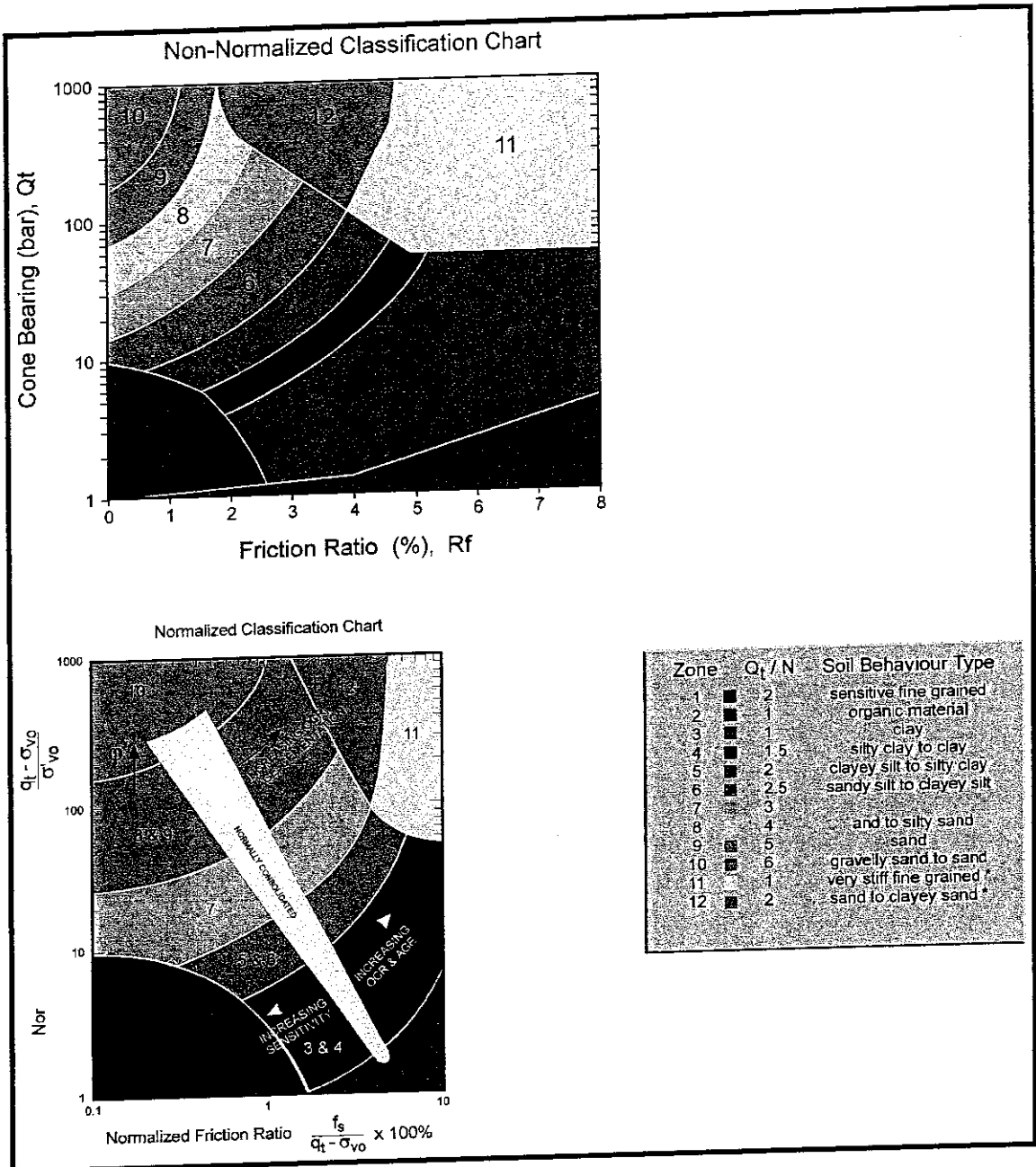


Figure 1 Non-Normalized and Normalized Soil Behavior Type Classification Charts

## CPT Interpretations

**Table 2 References**

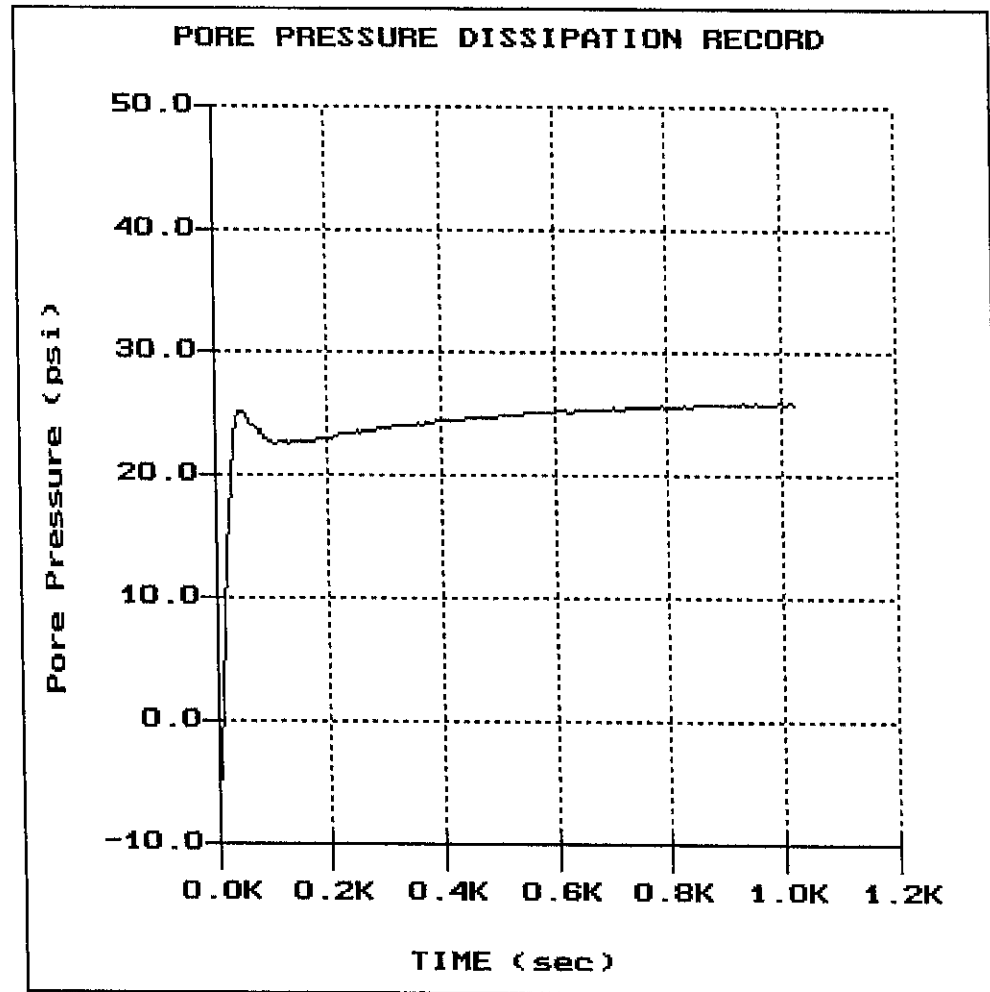
No.	Reference
1	Robertson, P.K. and Campanella, R.G., 1986, "Guidelines for Use, Interpretation and Application of the CPT and CPTU", UBC, Soil Mechanics Series No. 105, Civil Eng. Dept., Vancouver, B.C., Canada
2	Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.
3	Robertson, P.K. and Campanella, R.G., 1989, "Guidelines for Geotechnical Design Using CPT and CPTU", UBC, Soil Mechanics Series No. 120, Civil Eng. Dept., Vancouver, B.C., Canada
4	Robertson, P.K., 1990, "Soil Classification Using the Cone Penetration Test", Canadian Geotechnical Journal, Volume 27.
5	Robertson, P.K. and Fear, C.E., 1995, "Liquefaction of Sands and its Evaluation", Keynote Lecture, First International Conference on Earthquake Geotechnical Engineering, Tokyo, Japan.
6	Gregg In Situ Internal Report
7	Robertson, P.K. and Wride, C.E., 1997, "Cyclic Liquefaction and its Evaluation Based on SPT and CPT", NCEER Workshop Paper, January 22, 1997
8	Wride, C.E. and Robertson, P.K., 1997, "Phase II Data Review Report (Massey and Kidd Sites, Fraser River Delta)", Volume 1 - Data Report (June 1997), University of Alberta.
9	Plewes, H.D., Davies, M.P. and Jefferies, M.G., 1992, "CPT Based Screening Procedure for Evaluating Liquefaction Susceptibility", 45th Canadian Geotechnical Conference, Toronto, Ontario, October 1992.

### 3.3 PORE PRESSURE DISSIPATION PLOTS

DELTA

Site: 6750 SANTA RITA  
Location: CPT-03

Geologist: D. ARNOLD  
Date: 12:18:03 14:13

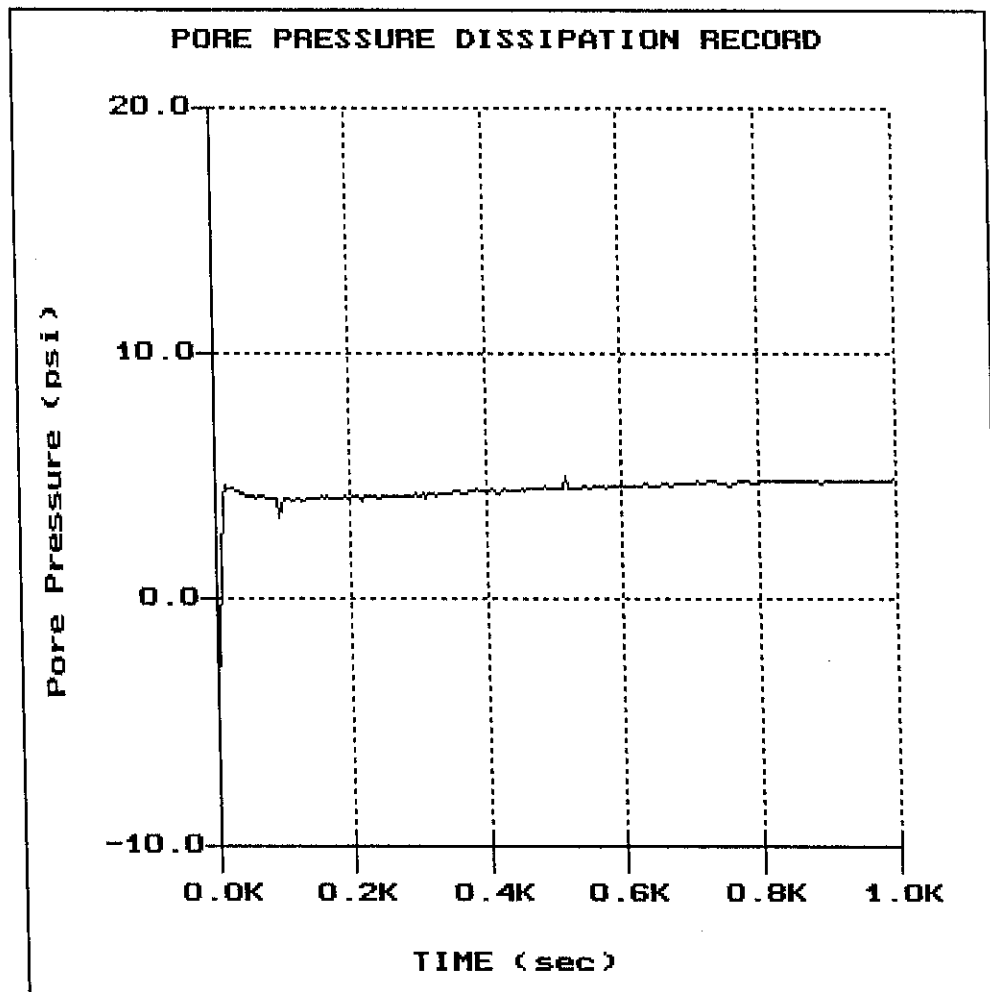


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(ft): 98.92  
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U-max: 25.84 1015.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-03

Geologist: D. ARNOLD  
Date: 12:18:03 14:13



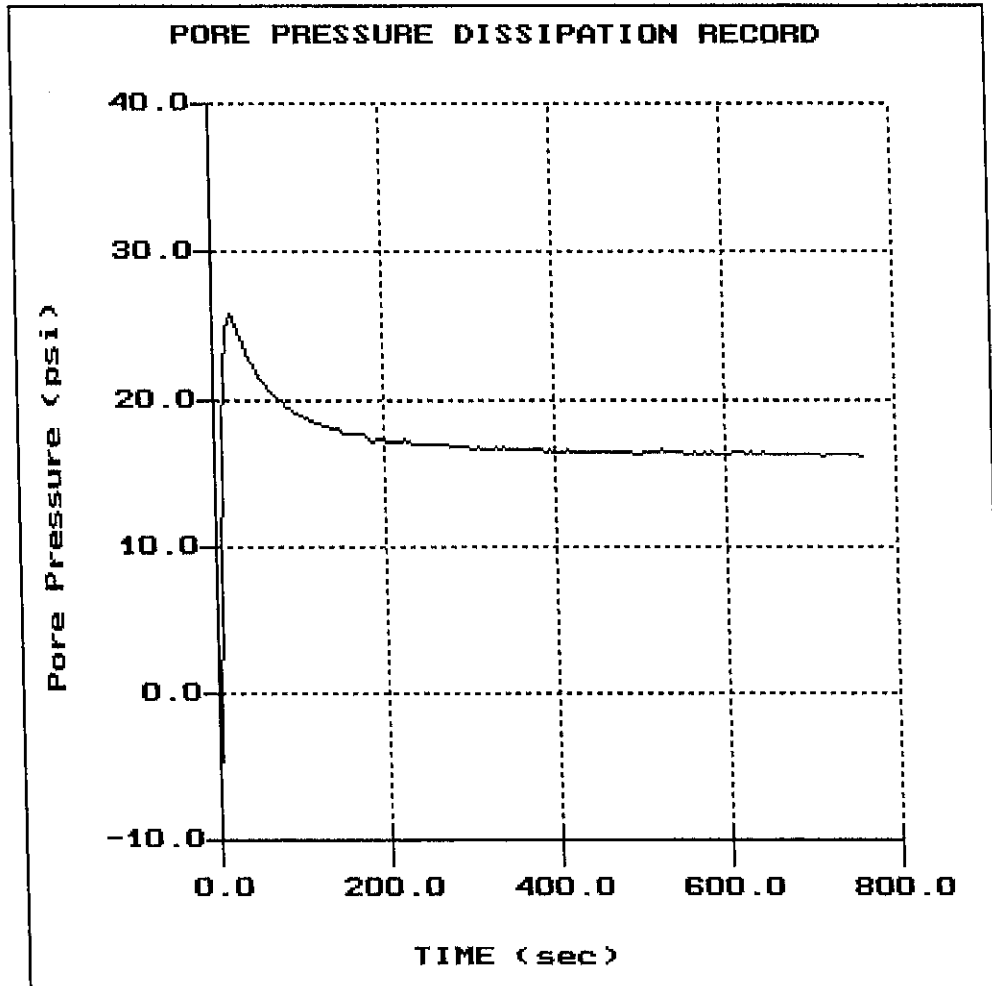
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(ft): 47.08  
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U-max: 5.00 515.0s



DELTA

Site: 6750 SANTA RITA  
Location: CPT-02

Geologist: D. ARNOLD  
Date: 12:19:03 09:54

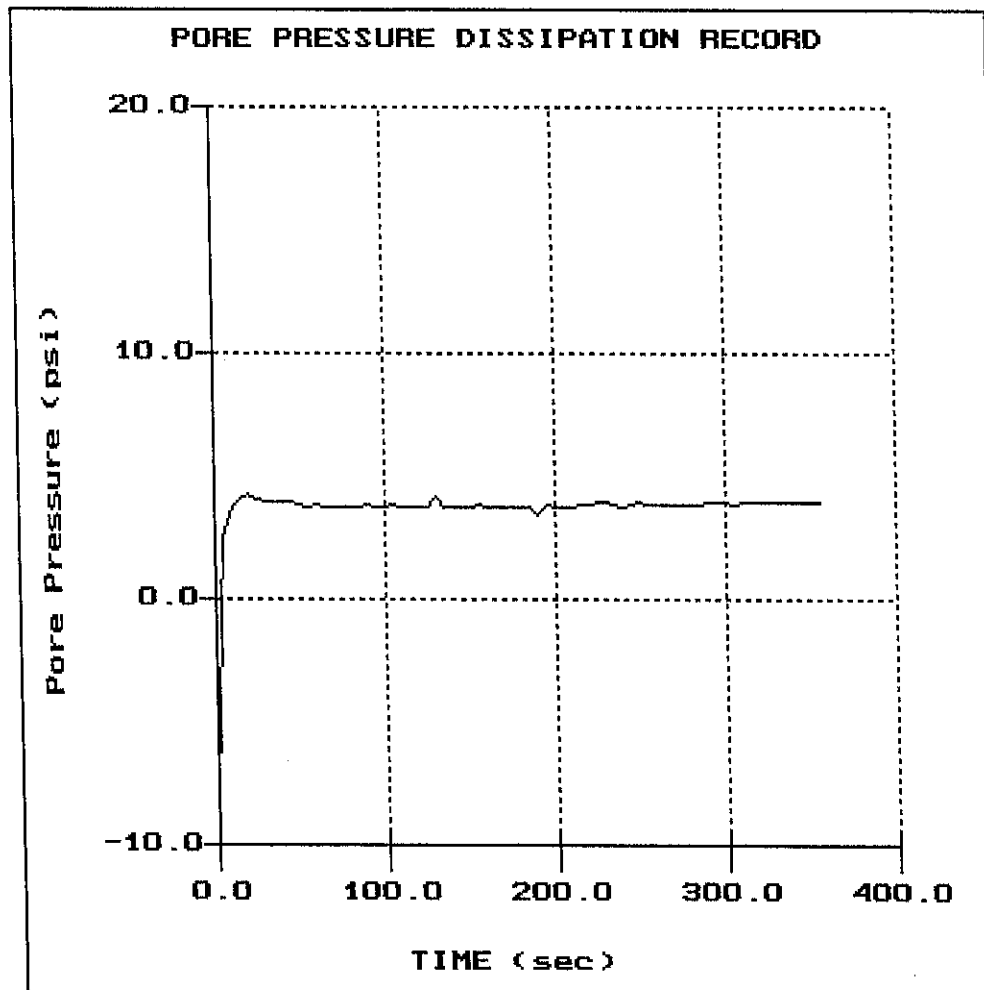


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      (ft): 77.10  
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DELTA

Site: 6750 SANTA RITA  
Location: CPT-02

Geologist: D. ARNOLD  
Date: 12:19:03 09:54



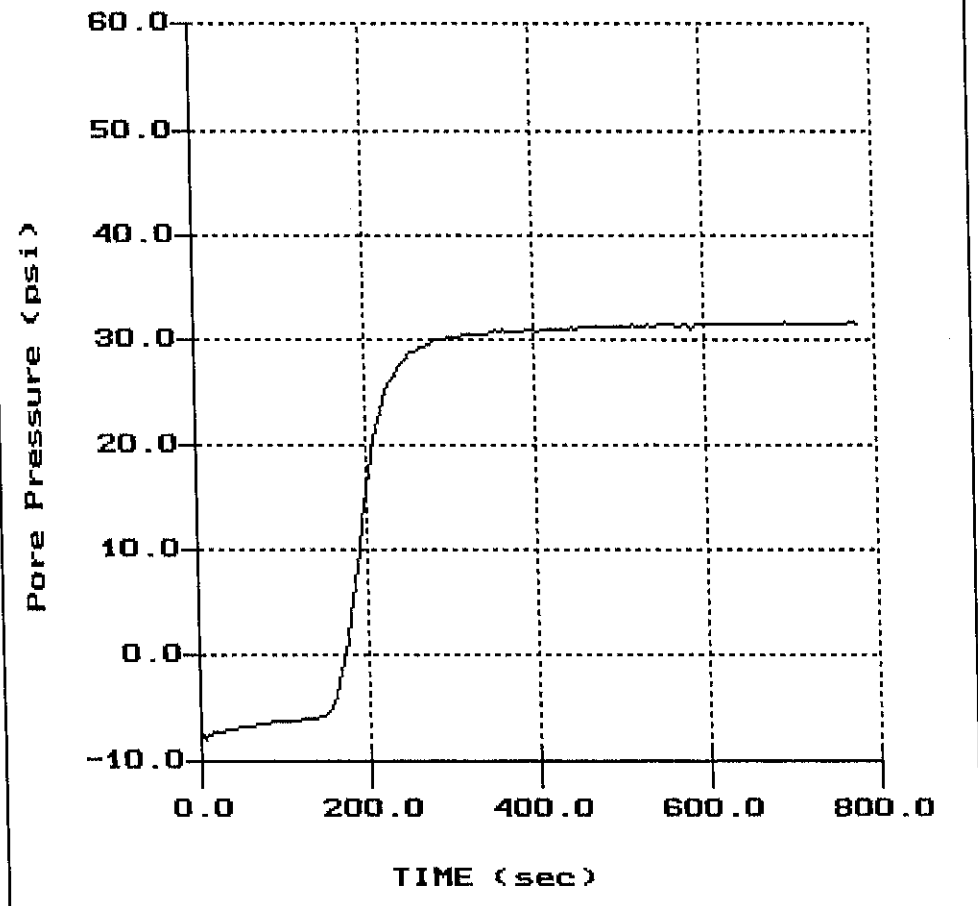
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(ft): 49.21  
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U-max: 4.23 20.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-01

Geologist: D. ARNOLD  
Date: 12:18:03 08:33

PORE PRESSURE DISSIPATION RECORD

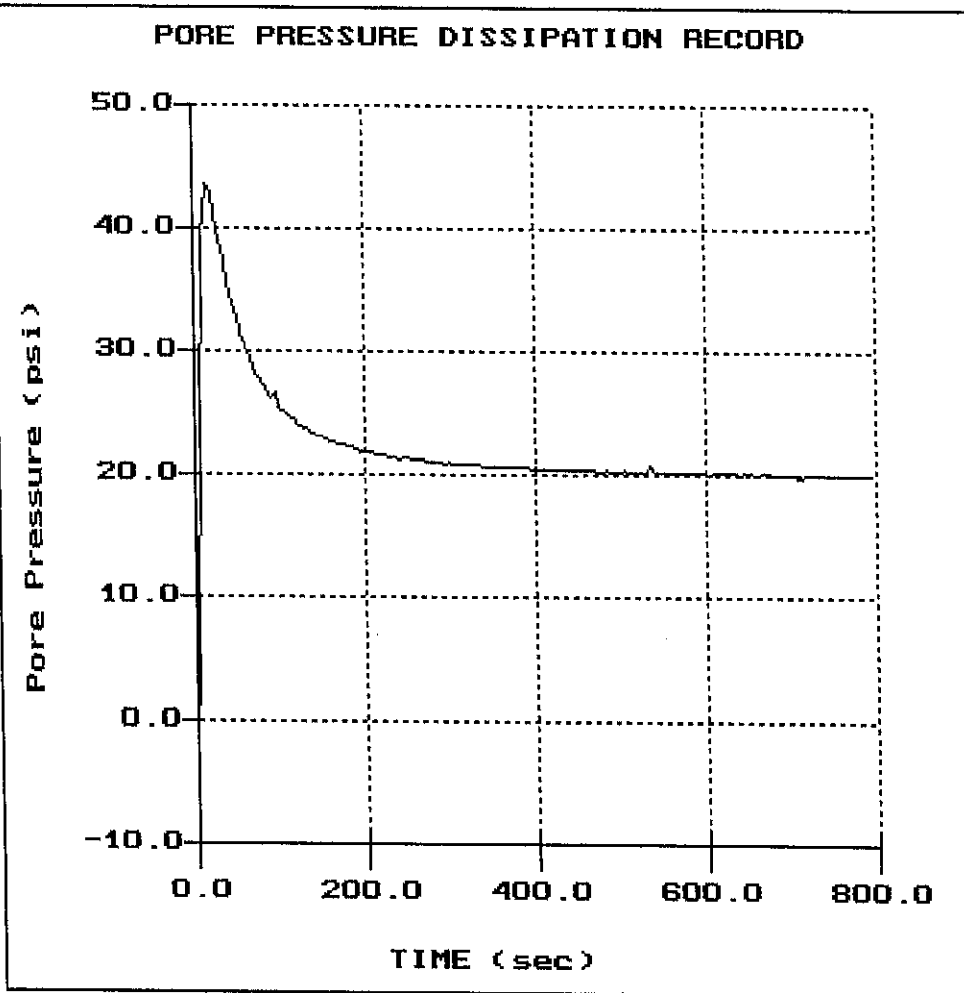


File: 399C01.PPC  
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DELTA

Site: 6750 SANTA RITA  
Location: CPT-01

Geologist: D. ARNOLD  
Date: 12:18:03 08:33

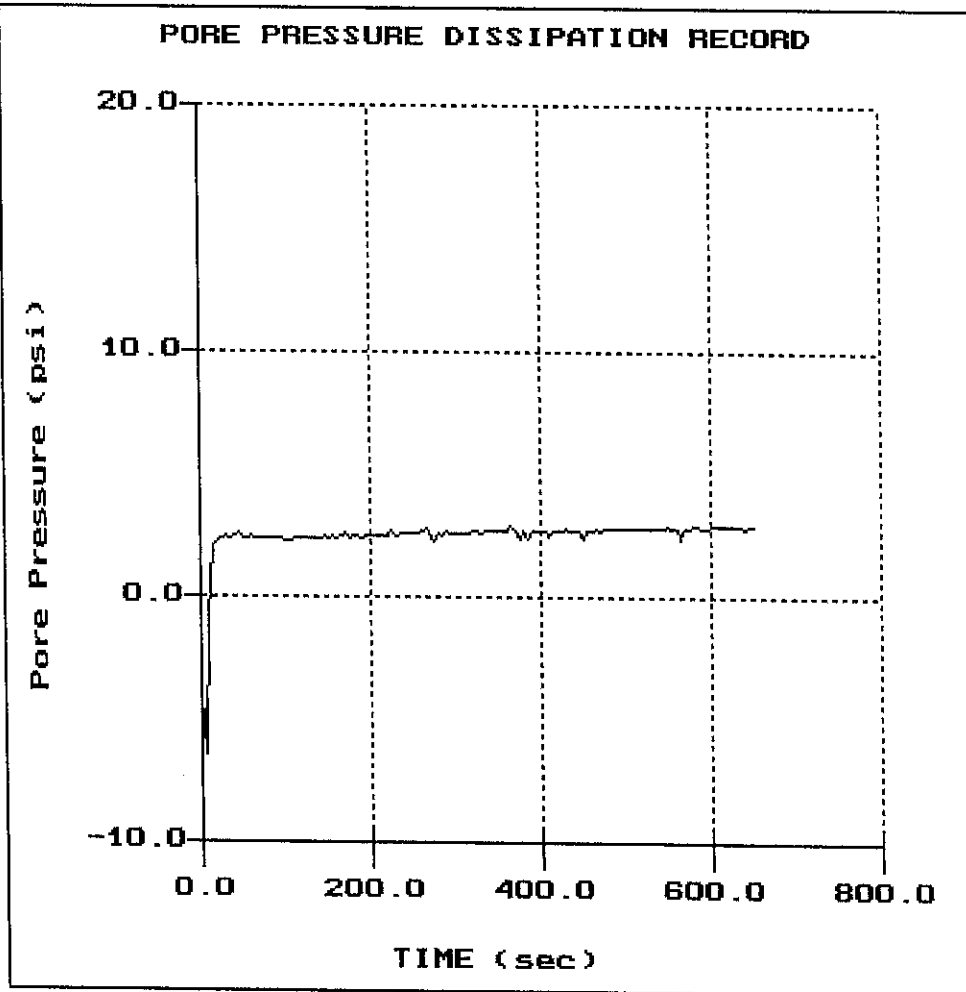


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U-max: 43.50 15.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-01

Geologist: D. ARNOLD  
Date: 12:18:03 08:33



File: 399C01.PPC  
Depth (m): 13.50  
(ft): 44.29  
Duration: 650.0s  
U-min: -6.51 5.0s  
U-max: 2.95 645.0s

**Attachment C**

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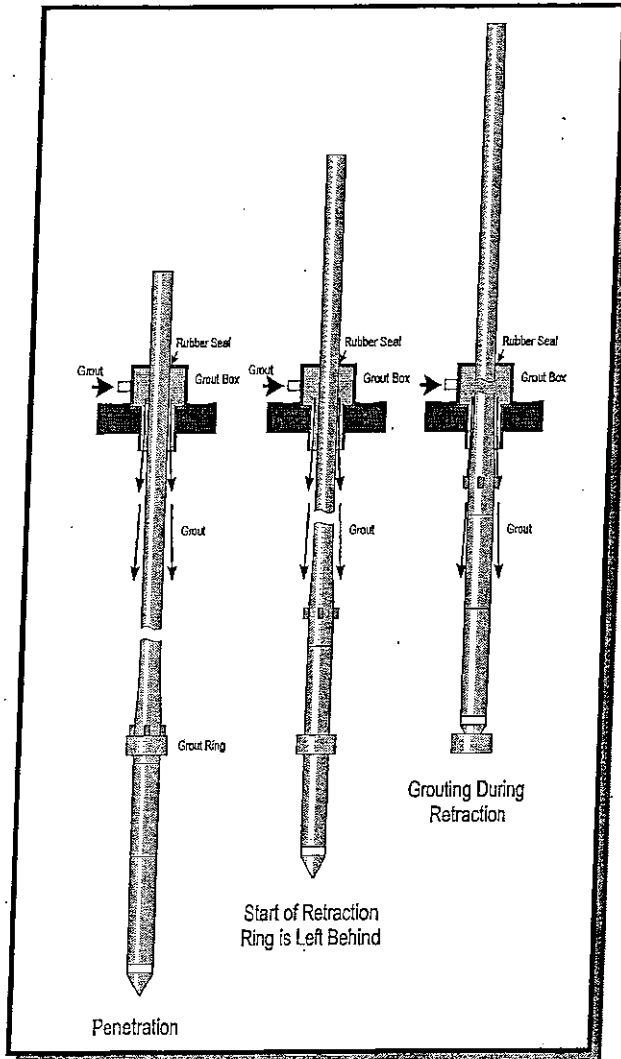
**RETRACTION GROUTING**



# GREGG IN SITU, INC.

Geotechnical and Environmental In Situ Testing Contractors

## RETRACTION GROUTING



Retraction Grouting requires the use of a casing through which the cone and rods can pass. Prior to the start of the cone test, the casing is filled with grout under pressure. The pressure and supply of grout is maintained from the start of the CPT sounding to the end of the sealing process. Upon completion of the cone test, the cone is slowly retracted causing the sacrificial friction reducer to drop off. Grout then fills the hole left by the cone as it is retracted from the ground.

Retraction grouting is typically suggested when cone testing in soils known to contain liquid form contaminants. This method is used because the friction reducer displaces soil as it passes through the soil. The annular space may provide a conduit through which contaminants may flow. By grouting on advance and retraction, the annular space is filled at all times thus preventing migration of contaminants through the profile.

Los Angeles (corporate) • San Francisco • Houston • Charleston  
Vancouver • Salt Lake City • New Jersey  
Tel: (562) 427-6899 • Fax (562) 424-2329 • Website: [www.greggdrilling.com](http://www.greggdrilling.com)

**Attachment D**

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**CERTIFIED GROUNDWATER ANALYTICAL REPORT**

**AND**

**CHAIN-OF-CUSTODY DOCUMENTATION**



**Delta Env. Consultants San Jose**

January 06, 2004

175 Bernal Road  
San Jose, CA 95119  
Attn.: Debbie Arnold  
Project#: SJ67-50S-1  
Project: 97464711  
Site: 6750 Santa Rita Rd., Pleasanton

Dear Ms. Arnold:

Attached is our report for your samples received on 12/29/2003 10:28

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 02/12/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [vvancil@stl-inc.com](mailto:vvancil@stl-inc.com)

Sincerely,



Vincent Vancil  
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: SJ67-50S-1

97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
CPT-1 @ 56	12/18/2003 11:15	Water	1
CPT-1 @ 70	12/18/2003 12:00	Water	2
CPT-2 @ 47	12/19/2003 11:30	Water	3
CPT-2 @ 80	12/19/2003 12:00	Water	4
CPT-2 @ 98	12/19/2003 13:00	Water	5
CPT-3 @ 46	12/18/2003 15:30	Water	6
CPT-3 @ 72	12/18/2003 16:30	Water	7
CPT-3 @ 97	12/19/2003 08:30	Water	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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>CPT-1 @ 56</b>	Lab ID:	2003-12-0890 - 1
Sampled:	12/18/2003 11:15	Extracted:	12/29/2003 23:47
Matrix:	Water	QC Batch#:	2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/29/2003 23:47	
Benzene	ND	0.50	ug/L	1.00	12/29/2003 23:47	
Toluene	ND	0.50	ug/L	1.00	12/29/2003 23:47	
Ethylbenzene	ND	0.50	ug/L	1.00	12/29/2003 23:47	
Total xylenes	ND	1.0	ug/L	1.00	12/29/2003 23:47	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/29/2003 23:47	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/29/2003 23:47	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/29/2003 23:47	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/29/2003 23:47	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/29/2003 23:47	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	105.7	76-130	%	1.00	12/29/2003 23:47	
Toluene-d8	98.2	78-115	%	1.00	12/29/2003 23:47	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>CPT-1 @ 70</b>	Lab ID:	2003-12-0890 - 2
Sampled:	12/18/2003 12:00	Extracted:	12/30/2003 00:12
Matrix:	Water	QC Batch#:	2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 00:12	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 00:12	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 00:12	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 00:12	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 00:12	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 00:12	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 00:12	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 00:12	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 00:12	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 00:12	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.9	76-130	%	1.00	12/30/2003 00:12	
Toluene-d8	96.3	78-115	%	1.00	12/30/2003 00:12	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-2 @ 47</b>	Lab ID: 2003-12-0890 - 3
Sampled: 12/19/2003 11:30	Extracted: 12/30/2003 00:36
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 00:36	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 00:36	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 00:36	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 00:36	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 00:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 00:36	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 00:36	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 00:36	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 00:36	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 00:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.8	76-130	%	1.00	12/30/2003 00:36	
Toluene-d8	98.6	78-115	%	1.00	12/30/2003 00:36	

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

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Attn.: Debbie Arnold

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>CPT-2 @ 80</b>	Lab ID:	2003-12-0890 - 4
Sampled:	12/19/2003 12:00	Extracted:	12/30/2003 01:00
Matrix:	Water	QC Batch#:	2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 01:00	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 01:00	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 01:00	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 01:00	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 01:00	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 01:00	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 01:00	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 01:00	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 01:00	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 01:00	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.1	76-130	%	1.00	12/30/2003 01:00	
Toluene-d8	100.6	78-115	%	1.00	12/30/2003 01:00	

**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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-2 @ 98</b>	Lab ID: 2003-12-0890 - 5
Sampled: 12/19/2003 13:00	Extracted: 12/30/2003 01:24
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 01:24	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 01:24	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 01:24	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 01:24	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 01:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 01:24	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 01:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 01:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 01:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 01:24	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.3	76-130	%	1.00	12/30/2003 01:24	
Toluene-d8	99.2	78-115	%	1.00	12/30/2003 01:24	

**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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-3 @ 46</b>	Lab ID: 2003-12-0890 - 6
Sampled: 12/18/2003 15:30	Extracted: 12/30/2003 01:48
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 01:48	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 01:48	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 01:48	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 01:48	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 01:48	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 01:48	
Methyl tert-butyl ether (MTBE)	18	0.50	ug/L	1.00	12/30/2003 01:48	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 01:48	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 01:48	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 01:48	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.3	76-130	%	1.00	12/30/2003 01:48	
Toluene-d8	94.9	78-115	%	1.00	12/30/2003 01:48	



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

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

Project: SJ67-50S-1

97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>CPT-3 @ 72</b>	Lab ID:	2003-12-0890 - 7
Sampled:	12/18/2003 16:30	Extracted:	12/30/2003 02:12
Matrix:	Water	QC Batch#:	2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 02:12	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 02:12	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 02:12	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 02:12	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 02:12	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 02:12	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 02:12	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 02:12	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 02:12	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 02:12	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	110.7	76-130	%	1.00	12/30/2003 02:12	
Toluene-d8	102.1	78-115	%	1.00	12/30/2003 02:12	

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

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>CPT-3 @ 97</b>	Lab ID:	2003-12-0890 - 8
Sampled:	12/19/2003 08:30	Extracted:	12/30/2003 02:36
Matrix:	Water	QC Batch#:	2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 02:36	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 02:36	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 02:36	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 02:36	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 02:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 02:36	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 02:36	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 02:36	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 02:36	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 02:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.9	76-130	%	1.00	12/30/2003 02:36	
Toluene-d8	97.3	78-115	%	1.00	12/30/2003 02:36	

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

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

Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2003/12/29-2B.66**

MB: 2003/12/29-2B.66-055

Date Extracted: 12/29/2003 18:55

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/29/2003 18:55	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/29/2003 18:55	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/29/2003 18:55	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	12/29/2003 18:55	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	12/29/2003 18:55	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	12/29/2003 18:55	
Benzene	ND	0.5	ug/L	12/29/2003 18:55	
Toluene	ND	0.5	ug/L	12/29/2003 18:55	
Ethylbenzene	ND	0.5	ug/L	12/29/2003 18:55	
Total xylenes	ND	1.0	ug/L	12/29/2003 18:55	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	98.9	76-130	%	12/29/2003 18:55	
Toluene-d8	99.7	78-115	%	12/29/2003 18:55	

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

Delta Env. Consultants San Jose

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

Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

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

**Laboratory Control Spike** **Water** **QC Batch # 2003/12/29-2B.66**

LCS 2003/12/29-2B.66-007 Extracted: 12/29/2003 Analyzed: 12/29/2003 18:07

LCSD 2003/12/29-2B.66-031 Extracted: 12/29/2003 Analyzed: 12/29/2003 18:31

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.5	20.8	25	86.0	83.2	3.3	65-165	20		
Benzene	19.6	20.3	25	78.4	81.2	3.5	69-129	20		
Toluene	21.3	21.7	25	85.2	86.8	1.9	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	504	494	500	100.8	98.8		76-130			
Toluene-d8	493	500	500	98.6	100.0		78-115			

**Diesel (C10-C24)**

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: SJ67-50S-1

97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
CPT-1 @ 56	12/18/2003 11:15	Water	1
CPT-1 @ 70	12/18/2003 12:00	Water	2
CPT-2 @ 47	12/19/2003 11:30	Water	3
CPT-2 @ 80	12/19/2003 12:00	Water	4
CPT-2 @ 98	12/19/2003 13:00	Water	5
CPT-3 @ 46	12/18/2003 15:30	Water	6
CPT-3 @ 72	12/18/2003 16:30	Water	7
CPT-3 @ 97	12/19/2003 08:30	Water	8

**Diesel (C10-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-1 @ 56</b>	Lab ID: 2003-12-0890 - 1
Sampled: 12/18/2003 11:15	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	130	50	ug/L	1.00	01/02/2004 16:36	edr
<b>Surrogate(s)</b> o-Terphenyl	128.3	50-150	%	1.00	01/02/2004 16:36	

**Diesel (C10-C24)**

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Attn.: Debbie Arnold

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-1 @ 70</b>	Lab ID: 2003-12-0890 - 2
Sampled: 12/18/2003 12:00	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	300	50	ug/L	1.00	01/02/2004 17:03	edr
<b>Surrogate(s)</b> o-Terphenyl	132.0	50-150	%	1.00	01/02/2004 17:03	

**Diesel (C10-C24)**

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-2 @ 47</b>	Lab ID: 2003-12-0890 - 3
Sampled: 12/19/2003 11:30	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	90	50	ug/L	1.00	01/02/2004 17:31	edr
<b>Surrogate(s)</b> o-Terphenyl	127.4	50-150	%	1.00	01/02/2004 17:31	



**Diesel (C10-C24)**

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

Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-2 @ 80</b>	Lab ID: 2003-12-0890 - 4
Sampled: 12/19/2003 12:00	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10
Analysis Flag: rl ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	260	ug/L	5.26	01/02/2004 15:42	
<b>Surrogate(s)</b>						
o-Terphenyl	99.3	50-150	%	5.26	01/02/2004 15:42	

**Diesel (C10-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-2 @ 98</b>	Lab ID: 2003-12-0890 - 5
Sampled: 12/19/2003 13:00	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10
Analysis Flag: rl ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	01/02/2004 15:15	
<b>Surrogate(s)</b>						
o-Terphenyl	120.1	50-150	%	1.00	01/02/2004 15:15	

**Diesel (C10-C24)**

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-3 @ 46</b>	Lab ID: 2003-12-0890 - 6
Sampled: 12/18/2003 15:30	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	01/02/2004 16:09	
<b>Surrogate(s)</b> o-Terphenyl	118.8	50-150	%	1.00	01/02/2004 16:09	

**Diesel (C10-C24)**

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-3 @ 72</b>	Lab ID: 2003-12-0890 - 7
Sampled: 12/18/2003 16:30	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	01/02/2004 16:36	
<b>Surrogate(s)</b> o-Terphenyl	119.0	50-150	%	1.00	01/02/2004 16:36	

**Diesel (C10-C24)**

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-3 @ 97</b>	Lab ID: 2003-12-0890 - 8
Sampled: 12/19/2003 08:30	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	73	50	ug/L	1.00	01/02/2004 17:03	edr
<b>Surrogate(s)</b> o-Terphenyl	121.1	50-150	%	1.00	01/02/2004 17:03	

**Diesel (C10-C24)**

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report					
Prep(s): 3511		Water		Test(s): 8015M	
<b>Method Blank</b>				<b>QC Batch # 2003/12/31-05.10</b>	
MB: 2003/12/31-05.10-001				Date Extracted: 12/31/2003 18:47	
Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	01/02/2004 15:15	
<b>Surrogates(s)</b> o-Terphenyl	136.9	50-150	%	01/02/2004 15:15	

**Diesel (C10-C24)**

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Suite 200  
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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 3511 Test(s): 8015M

**Laboratory Control Spike** **Water** **QC Batch # 2003/12/31-05.10**

LCS 2003/12/31-05.10-002 Extracted: 12/31/2003 Analyzed: 01/02/2004 15:42

LCSD 2003/12/31-05.10-003 Extracted: 12/31/2003 Analyzed: 01/02/2004 16:09

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	588	533	753	78.1	70.5	10.2	60-150	25		
<b>Surrogates(s)</b> o-Terphenyl	1.49	1.51	1.25	119.6	120.6		50-150	0		

**Diesel (C10-C24)**

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Suite 200

San Jose, CA 95119

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

Project: SJ67-50S-1

97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Legend and Notes**

**Analysis Flag**

rl

Reporting limits raised due to reduced sample size.

**Result Flag**

edr

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard





# UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 01/06/03		CASE #			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Karen Petryna		PHONE (559) 645-9306	SIGNATURE	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME Shell Oil Products US		
	ADDRESS P.O. Box 7869 Burbank CA 91510				
RESPONSIBLE PARTY	NAME Shell Oil Products US <input type="checkbox"/> UNKNOWN		CONTACT PERSON Karen Petryna	PHONE (559) 645-9306	
	ADDRESS 2255 N. Ontario Burbank CA 91504				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Shell Service Station		OPERATOR	PHONE ( )	
	ADDRESS 6750 Santa Rita Rd Pleasanton Alameda 94588				
	CROSS STREET Pimlico Dr.				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Livermore-Pleasanton Fire Department		CONTACT PERSON Danielle Stefani	PHONE (925) 454-2338	
	REGIONAL BOARD San Francisco Bay Region, RWQCB		CONTACT PERSON Chuck Headlee	PHONE (510) 286-0435	
SUBSTANCES INVOLVED	(1) NAME MTBE, TPH-D, Tert-Butanol		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2)		<input type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 01/02/03		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input checked="" type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CASE TYPE <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input checked="" type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> OTHER (OT) Monitor Groundwater				
COMMENTS	Groundwater Samples from new monitoring wells.				
	Max MTBE = 8000 ug/L, Max TPH-D = 120 ug/L, Max TBA = 1500 ug/L				



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January 18, 2006  
Project No. SJ67-50S-1

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

**Re: Quarterly Groundwater Monitoring and Remediation Status Report – Fourth Quarter 2005  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California**

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following fourth quarter 2005 groundwater monitoring, sampling, and remediation status report for the above referenced site. Groundwater sampling was performed by Blaine Tech Services (Blaine), at the direction of Delta. A site location map is included as Figure 1.

#### **QUARTERLY GROUND WATER MONITORING PROGRAM**

Groundwater monitoring Wells MW-1 through MW-5 were gauged and sampled by Blaine on October 20, 2005. Depth to groundwater was measured in Wells MW-1 through MW-5. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were submitted by Blaine to Severn Trent Laboratories, Inc. in Pleasanton, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); and fuel oxygenates methyl tert-butyl ether (MTBE), and tert-butanol (TBA) using EPA Method 8260B. Benzene, MTBE, and TBA concentrations are presented on Figure 3.

Blaine's groundwater monitoring and sampling report, which includes historical and current groundwater elevation data, historical and current analytical results, and field data records for the current monitoring event, is included as Attachment A.

## **PREVIOUS REMEDIATION SUMMARY**

Monthly batch extraction on Wells MW-2 and MW-3 was initiated during third quarter 2003, and continued through the fourth quarter 2003. Over the course of six months, the MTBE concentration in Well MW-3 was lowered from a historic high of 15,000 micrograms per liter (ug/l) to 9,800 ug/l. However, on average, less than 40 gallons of water could be extracted from each well during a two-hour period, and Delta/Shell did not continue monthly groundwater batch extractions during first quarter 2004.

Due to increasing MTBE groundwater concentrations during first and second quarter 2004, Delta/Shell initiated an extended groundwater batch extraction event during third quarter 2004 utilizing Wells MW-1, MW-2 and MW-3. Approximately 4,705 gallons of groundwater were extracted during a six-week period, and an overall decrease in concentrations was observed in site wells during the extraction activities indicating the successful mass removal of oxygenates.

Due to increasing MTBE groundwater concentrations again during fourth quarter 2004, Delta/Shell initiated a second extended groundwater batch extraction event during first quarter 2005 utilizing Well MW-2. Approximately 2,950 gallons of groundwater were extracted during a two week period, and the concentration of MTBE in Well MW-2 decreased from 5,200 ug/l to 1,300 ug/l. The total mass of MTBE removed from groundwater beneath the site through January 2005 was approximately 0.274 pounds.

## **DISCUSSION**

Depth to groundwater in Wells MW-1, MW-3, and MW-4 increased by an average of approximately 1 foot since last quarter, while depth to groundwater in Well MW-5 increased by only 0.22 feet. Depth to groundwater in Well MW-2 decreased by 0.07 feet since last quarter. With the exception of second quarter 2004, previous site data has indicated that the groundwater flow direction at the site varies from southeast to southwest. In the second quarter 2004 groundwater flow was to the northwest. The groundwater gradient on October 20, 2005 was toward the south at an average magnitude of 0.01 feet/feet. A rose diagram of historic groundwater flow directions is also included on Figure 2.

In fourth quarter 2005, MTBE continued to be detected in all on-site site Wells (MW-1 through MW-4). MTBE has decreased in site wells since last quarter to concentrations ranging from 39 ug/l in Well MW-1 to 2,500 ug/l in Well MW-2. The TBA concentration in Well MW-1 decreased to a non-detectable level for the first time since fourth quarter 2002. TBA decreased in Wells MW-2 and MW-3 to concentrations of 480 ug/l and 220 ug/l, respectively. TPH-G and BTEX compounds remain below the laboratory detection limits in all site wells. No fuel oxygenates or petroleum hydrocarbons were detected in the groundwater sample collected from off-site Well MW-5.

Delta is currently preparing a report documenting the results of an additional soil and groundwater investigation conducted at this site during November 2005.

## **GROUNDWATER EXTRACTION ACTIVITIES**

Due to increasing groundwater concentrations of MTBE and TBA, primarily detected in Wells MW-2 and Well MW-3, during the second and third quarter 2005, Delta/Shell initiated a third extended groundwater batch extraction event during fourth quarter 2005. Per an Alameda County Health Care Services Agency letter dated September 7, 2005, batch groundwater extraction is required at the site on a quarterly basis.

On September 26, 2005, a submersible pump was placed in Well MW-2 to extract groundwater. Extracted groundwater was piped to a 6,500-gallon Baker holding tank on-site. Between September 26 and October 7, 2005, an approximate total of 1,118 gallons of groundwater was extracted from Well MW-2 at an average flow rate of 0.25 gallons per minute during pumping activities. Following completion of the extraction event, groundwater in the holding tank was purged by a vac-truck operated by Philips Services Co. (PSC) and transported to the Shell refinery in Martinez, California for disposal. Discharge samples, collected periodically through out the extraction event, were analyzed for TPH-G, BTEX compounds, MTBE and TBA. Table 1 presents groundwater analytical data. Laboratory certified analytical reports and chain of custody documentation for the discharge samples are included as Attachment B.

Table 2 presents the total gallons extracted and mass removal estimates from the batch extraction activities. During the batch extraction, the MTBE concentration in Well MW-2 decreased by one half from an initial concentration of 2,600 ug/l on September 26, 2005 to 1,300 ug/l on October 7, 2005. The TBA concentration in Well MW-2 also decreased by approximately one half from an initial concentration of 280 ug/l on September 26, 2005 to 130 ug/l on October 7, 2005. The total mass of MTBE removed from groundwater beneath the site to date is approximately 0.292 pounds.

Delta/Shell will continue quarterly batch extraction activities and quarterly groundwater monitoring at the site. The batch extraction event for first quarter 2006 will commence in February.

#### **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. Please call if you have any questions regarding the contents of this report.

Should you have any questions or comments regarding this report, please do not hesitate to contact Debbie Arnold at (408) 826-1873.

Sincerely,  
**Delta Environmental Consultants, Inc.**

Heather Buckingham  
Senior Staff Geologist

Debbie Arnold  
Project Manager  
PG 7745

**Attachments:** Table 1 – Summary of Groundwater Analytical Data  
Table 2 – Groundwater Extraction – Mass Removal Data  
Figure 1 – Site Location and Well Survey Map  
Figure 2 – Groundwater Elevation Contour Map, October 20, 2005  
Figure 3 – Benzene, MTBE, and TBA Concentrations Map, October 20, 2005

Attachment A – Groundwater Monitoring and Sampling Report, November 7, 2005  
Attachment B – Laboratory Certified Analytical Reports and Chain-of-Custody  
Documentation for Discharge Samples

cc: Denis Brown, Shell Oil Products US  
Betty Graham, Regional Water Quality Control Board, San Francisco Bay Region  
Beverly Howell, GS Management (property owner rep), Pleasanton



**Table 1**  
**Summary of Groundwater Data**  
 Shell-branded Service Station  
 6750 Santa Rita Road  
 Pleasanton, California

Well Designation	Sample Name	Date Sampled	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethly-benzene (ug/l)	Xylene (ug/l)	TBA (ug/l)	MTBE (ug/l)
<b>Quarterly Sampling</b>	<b>MW-5</b>	2/10/2005	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<b>5.1</b>
		4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
		10/20/2005	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50

**Notes:**

All analysis performed by EPA Method 8260B  
 ug/l = micrograms per liter  
 TPH-G = Total petroleum hydrocarbons as gasoline  
 MTBE = Methyl tert-butyl ether  
 TBA = Tert-Butanol



**TABLE 2**  
**Groundwater Extraction - Mass Removal Data**  
 Shell-Branded Service Station, Incident #97464711  
 6750 Santa Rita Rd, Pleasanton, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-G			Benzene			MTBE		
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)
07/30/04	MW-1	5	5	07/30/04	<1,000	0.00002	0.00002	<10	0.00000	0.00000	1,400	0.00006	0.00006
08/02/04	MW-1	120	125	08/02/04	<500	0.00025	0.00027	<5.0	0.00000	0.00000	840	0.00084	0.00090
08/05/04	MW-1	50	175	08/05/04	<500	0.00010	0.00038	<5.0	0.00000	0.00000	770	0.00032	0.00122
08/11/04	MW-1	105	280	08/11/04	<500	0.00022	0.00059	<5.0	0.00000	0.00001	770	0.00067	0.00190
05/19/03	MW-2/MW-3	67	347	05/09/03	6,125	0.00342	0.00402	<75	0.00002	0.00003	9,500	0.00531	0.00721
05/31/03	MW-2/MW-3	38	385	05/09/03	6,125	0.00194	0.00596	<75	0.00001	0.00004	9,500	0.00301	0.01022
06/13/03	MW-2/MW-3	58	443	05/09/03	6,125	0.00296	0.00893	<75	0.00002	0.00006	9,500	0.00460	0.01482
06/26/03	MW-2/MW-3	48	491	05/09/03	6,125	0.00245	0.01138	<75	0.00002	0.00007	9,500	0.00381	0.01862
06/30/03	MW-2	20	511	05/09/03	<2,500	0.00021	0.01159	<25	0.00000	0.00007	4,000	0.00067	0.01929
07/31/03	MW-2	60	571	07/08/03	<2,000	0.00050	0.01209	<20	0.00001	0.00008	2,800	0.00140	0.02069
08/29/03	MW-2	25	596	07/08/03	<2,000	0.00021	0.01230	<20	0.00000	0.00008	2,800	0.00058	0.02128
09/22/03	MW-2	25	621	07/08/03	<2,000	0.00021	0.01251	<20	0.00000	0.00008	2,800	0.00058	0.02186
10/28/03	MW-2	45	666	10/03/03	<2,000	0.00038	0.01288	<20	0.00000	0.00009	3,600	0.00135	0.02321
11/24/03	MW-2	21	687	10/03/03	<2,000	0.00018	0.01306	<20	0.00000	0.00009	3,600	0.00063	0.02384
12/29/03	MW-2	43	730	10/03/03	<2,000	0.00036	0.01341	<20	0.00000	0.00009	3,600	0.00129	0.02513
07/20/04	MW-2	25	755	07/20/04	<2,500	0.00026	0.01368	<25	0.00000	0.00009	3,500	0.00073	0.02586
07/23/04	MW-2	575	1,330	07/23/04	<2,500	0.00600	0.01967	<25	0.00006	0.00015	3,300	0.01583	0.04170
07/27/04	MW-2	700	2,030	07/27/04	<2,500	0.00730	0.02697	<25	0.00007	0.00023	2,800	0.01635	0.05805
07/30/04	MW-2	625	2,655	07/30/04	<2,000	0.00522	0.03219	<20	0.00005	0.00028	2,000	0.01043	0.06848
01/20/05	MW-2	421	3,076	01/18/05	<2,500	0.00439	0.03658	<25	0.00004	0.00032	5,200	0.01827	0.08675
01/21/05	MW-2	164	3,240	01/18/05	<2,500	0.00171	0.03829	<25	0.00002	0.00034	5,200	0.00712	0.09387
01/24/05	MW-2	554	3,794	01/18/05	<2,500	0.00578	0.04407	<25	0.00006	0.00040	5,200	0.02404	0.11790
01/26/05	MW-2	377	4,171	01/26/05	<1,300	0.00204	0.04611	<25	0.00004	0.00044	2,100	0.00661	0.12451
01/31/05	MW-2	1,434	5,605	01/31/05	<2,500	0.01496	0.06107	<25	0.00015	0.00059	1,300	0.01556	0.14007
<b>09/26/05</b>	<b>MW-2</b>	<b>50</b>	<b>5,655</b>	<b>09/26/05</b>	<b>&lt;1000</b>	<b>0.00021</b>	<b>0.06128</b>	<b>&lt;10</b>	<b>0.00000</b>	<b>0.00059</b>	<b>2,600</b>	<b>0.00108</b>	<b>0.14115</b>
<b>09/28/05</b>	<b>MW-2</b>	<b>88</b>	<b>5,743</b>	<b>09/26/05</b>	<b>&lt;1000</b>	<b>0.00037</b>	<b>0.06165</b>	<b>&lt;10</b>	<b>0.00000</b>	<b>0.00059</b>	<b>2,600</b>	<b>0.00191</b>	<b>0.14306</b>
<b>09/30/05</b>	<b>MW-2</b>	<b>150</b>	<b>5,893</b>	<b>09/26/05</b>	<b>&lt;1000</b>	<b>0.00063</b>	<b>0.06227</b>	<b>&lt;10</b>	<b>0.00001</b>	<b>0.00060</b>	<b>2,600</b>	<b>0.00325</b>	<b>0.14631</b>
<b>10/03/05</b>	<b>MW-2</b>	<b>187</b>	<b>6,080</b>	<b>10/03/05</b>	<b>&lt;1000</b>	<b>0.00078</b>	<b>0.06305</b>	<b>&lt;10</b>	<b>0.00001</b>	<b>0.00061</b>	<b>1,800</b>	<b>0.00281</b>	<b>0.14912</b>
<b>10/05/05</b>	<b>MW-2</b>	<b>393</b>	<b>6,473</b>	<b>10/03/05</b>	<b>&lt;1000</b>	<b>0.00164</b>	<b>0.06469</b>	<b>&lt;10</b>	<b>0.00002</b>	<b>0.00062</b>	<b>1,800</b>	<b>0.00590</b>	<b>0.15503</b>
<b>10/07/05</b>	<b>MW-2</b>	<b>250</b>	<b>6,723</b>	<b>10/07/05</b>	<b>&lt;500</b>	<b>0.00052</b>	<b>0.06521</b>	<b>&lt;5</b>	<b>0.00001</b>	<b>0.00063</b>	<b>1,300</b>	<b>0.00271</b>	<b>0.15774</b>

**TABLE 2**  
**Groundwater Extraction - Mass Removal Data**  
 Shell-Branded Service Station, Incident #97464711  
 6750 Santa Rita Rd, Pleasanton, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-G			Benzene			MTBE				
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)		
06/30/03	MW-3	95	2,750	05/09/03	11,000	0.00872	0.04091	<100	0.00004	0.00032	15,000	0.01189	0.08037		
07/31/03	MW-3	180	2,930	07/08/03	<10,000	0.00751	0.04842	<100	0.00008	0.00039	9,500	0.01427	0.09464		
08/29/03	MW-3	180	3,110	07/08/03	<10,000	0.00751	0.05593	<100	0.00008	0.00047	9,500	0.01427	0.10891		
09/22/03	MW-3	126	3,236	07/08/03	<10,000	0.00526	0.06119	<100	0.00005	0.00052	9,500	0.00999	0.11890		
10/28/03	MW-3	123	3,359	10/03/03	<10,000	0.00511	0.06630	<100	0.00005	0.00057	8,800	0.00900	0.12789		
11/24/03	MW-3	153	3,512	10/03/03	<10,000	0.00638	0.07268	<100	0.00006	0.00064	8,800	0.01123	0.13913		
12/29/03	MW-3	107	3,619	10/03/03	<10,000	0.00446	0.07714	<100	0.00004	0.00068	8,800	0.00786	0.14699		
09/02/04	MW-3	30	3,649	09/02/04	<1,300	0.00016	0.07731	<1,300	0.00016	0.00084	2,000	0.00050	0.14749		
09/03/04	MW-3	220	3,869	09/03/04	<1,300	0.00119	0.07850	<1,300	0.00119	0.00204	2,600	0.00477	0.15226		
09/07/04	MW-3	2,050	5,919	09/07/04	<1,000	0.00855	0.08705	<1,000	0.00855	0.01059	2,600	0.04448	0.19674		
09/10/04	MW-3	200	6,119	09/10/04	<1,000	0.00083	0.08789	<1,000	0.00083	0.01143	3,600	0.00601	0.20274		
<b>Total Gallons Extracted:</b>				<b>10,187</b>	<b>Total Pounds Removed:</b>			<b>0.121</b>	<b>Total Pounds Removed:</b>			<b>0.0118</b>	<b>Total Pounds Removed:</b>		<b>0.292</b>
<b>Total Gallons Extracted This Reporting Period:</b>				<b>1,118</b>	<b>Total Gallons Removed:</b>			<b>0.020</b>	<b>Total Gallons Removed:</b>			<b>0.00161</b>	<b>Total Gallons Removed:</b>		<b>0.047</b>

**Abbreviations and Notes:**

TPH-G = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

ppb = Parts per billion, equivalent to micrograms per liter (ug/l)

gal = Gallon

Mass removed based on the formula: volume extracted (gal) x Concentration (mg/L) x (g/10<sup>6</sup>mg) x (pound/453.6g) x (3.785 L/gal)

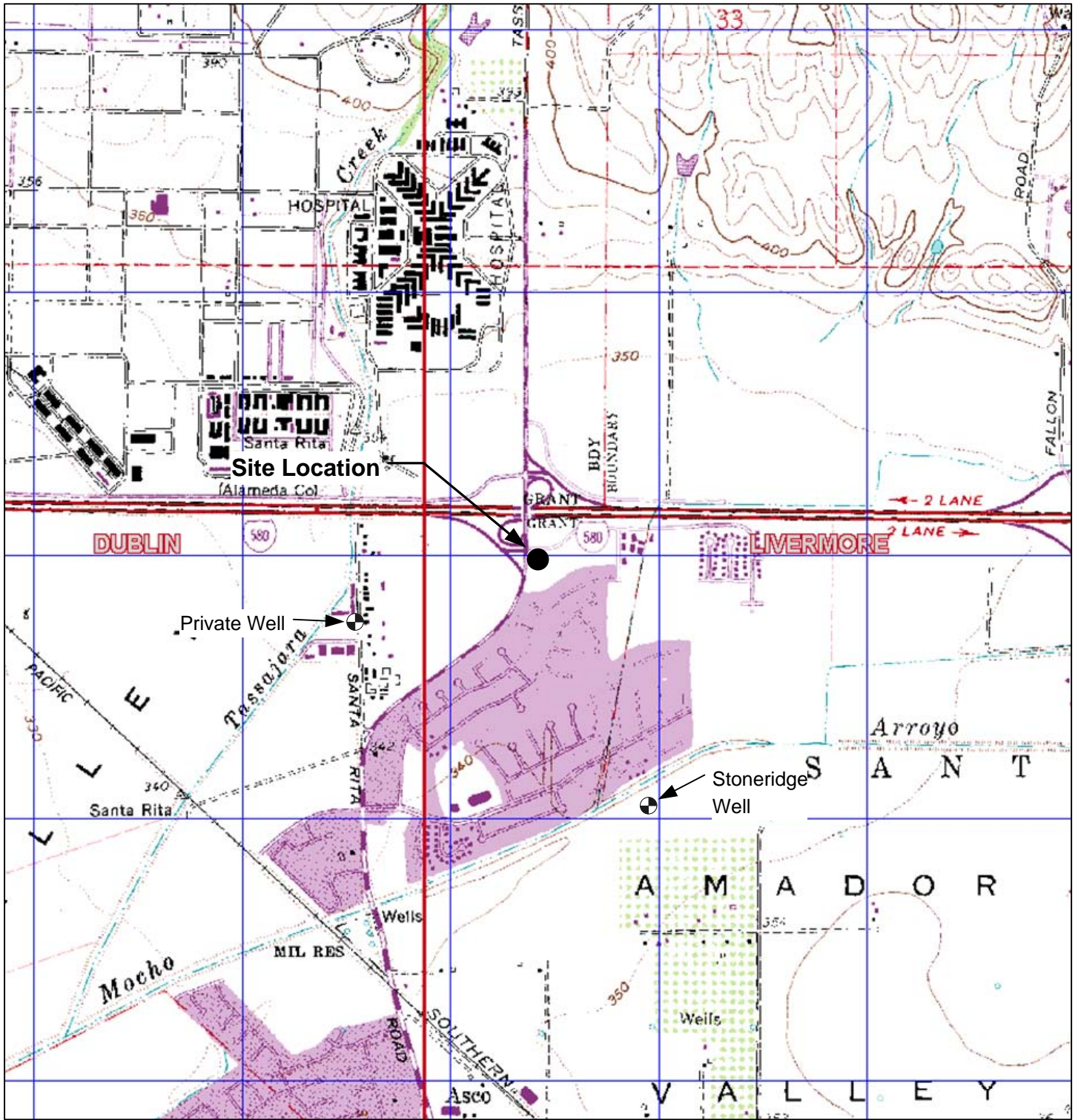
Volume removal data based on the formula: density (in gms/cc) x 9.339 (cc/lbs/gmsxgals)

TPH-G, benzene analyzed by EPA Method 8015/8020

Concentrations based on most recent groundwater monitoring results

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

For combined well numbers, the average concentration was used assuming 1/2 the detection limit for samples less than the detection limit.



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

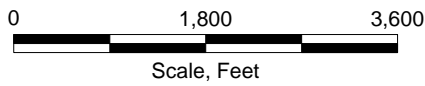
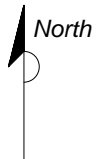
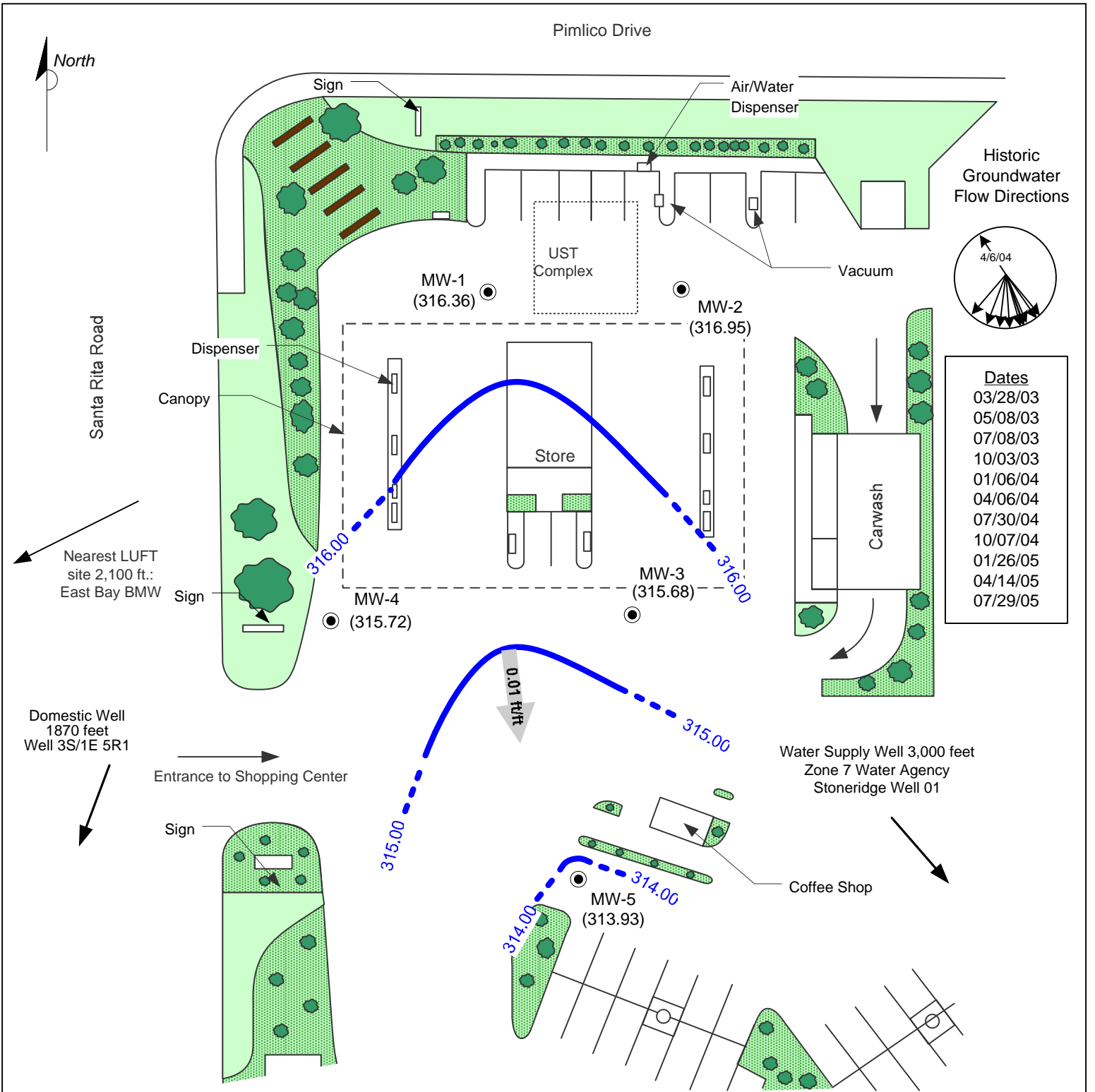


FIGURE 1  
 SITE LOCATION AND WELL SURVEY MAP  
 SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

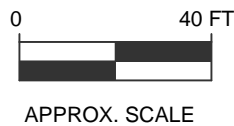
PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF 12/04/03
FILE NO. SJ67-50S-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY





**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- (313.93) **GROUNDWATER ELEVATION (FEET-MSL), 10/20/05**
- 316.00 — **GROUNDWATER ELEVATION CONTOUR**
- 0.01 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

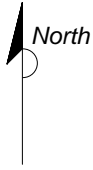


**FIGURE 2**  
**GROUNDWATER ELEVATION CONTOUR MAP,**  
**OCTOBER 20, 2005**  
**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

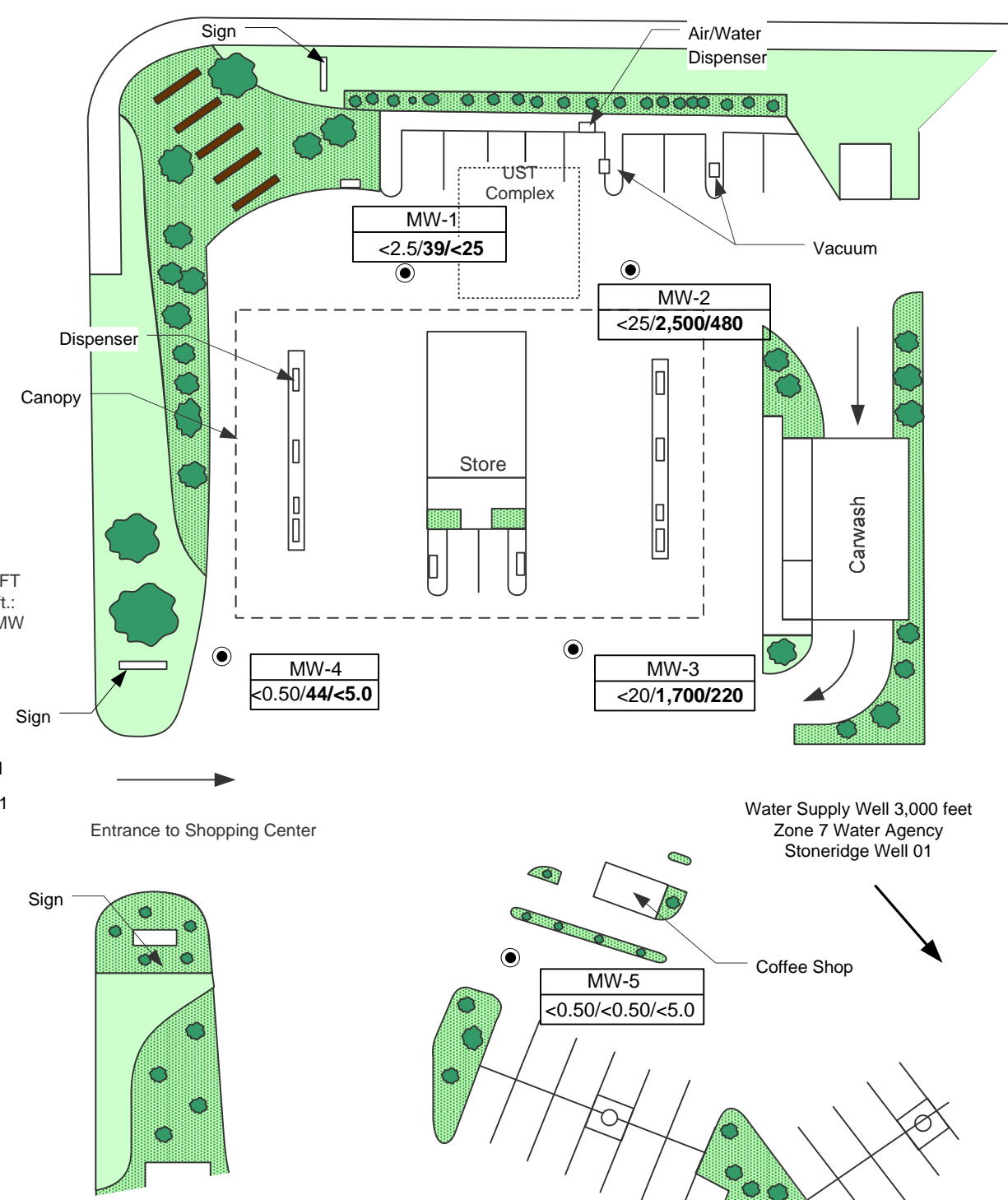
PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 12/08/05
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 1	REVIEWED BY

**Delta**  
Environmental  
Consultants, Inc.

Pimlico Drive



Santa Rita Road



Nearest LUFT site 2,100 ft.: East Bay BMW

Domestic Well 1870 feet Well 3S/1E 5R1

Entrance to Shopping Center

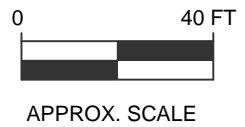
Water Supply Well 3,000 feet Zone 7 Water Agency Stoneridge Well 01

**LEGEND**

● **GROUNDWATER MONITORING WELL**

MW-5
<0.50/<0.50/<5.0

**WELL ID**  
**BENZENE/MTBE/TBA CONCENTRATIONS (UG/L) – 10/20/05**



**FIGURE 3**  
**BENZENE, MTBE AND TBA CONCENTRATION MAP**  
OCTOBER 20, 2005  
SHELL-BRANDED SERVICE STATION  
6750 Santa Rita Road  
Pleasanton, California

PROJECT NO. SJ67-50S-1.2005	DRAWN BY JL 12/08/05.
FILE NO. SJ67-50S-1.2005	PREPARED BY HB
REVISION NO. 2	REVIEWED BY



**Attachment A**

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**GROUNDWATER MONITORING AND SAMPLING REPORT**



GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

November 7, 2005

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

Fourth Quarter 2005 Groundwater Monitoring at  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Monitoring performed on October 20, 2005

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## Groundwater Monitoring Report **051020-PC-1**

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

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

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

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

Please call if you have any questions.

Yours truly,

Mike Ninokata  
Project Coordinator

MN/ks

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

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



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)
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MW-1	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	<2.0	<2.0	<2.0	<50	NA	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	343.48	31.59	311.89
MW-1	05/09/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	343.48	31.10	312.38
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	07/08/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	343.48	30.90	312.58
MW-1	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/03/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	343.48	29.89	313.59
MW-1	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.38	312.10
MW-1	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.71	313.77
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.72	313.76
MW-1	01/06/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	343.48	29.16	314.32
MW-1	04/06/2004	<1,300	NA	<13	<13	<13	<25	3,300	NA	NA	NA	3,500	343.48	31.38	312.10
MW-1	07/30/2004	<1,300	NA	<13	<13	<13	<25	1,000	NA	NA	NA	600	343.48	28.51	314.97
MW-1	10/07/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	530	NA	NA	NA	390	343.48	28.55	314.93
MW-1	01/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	320	<10	<10	<10	130	343.48	27.35	316.13
MW-1	04/14/2005	<150	NA	<1.5	<1.5	<1.5	<1.5	720	NA	NA	NA	260	343.48	26.70	316.78
MW-1	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	270	NA	NA	NA	150	343.48	26.33	317.15
<b>MW-1</b>	<b>10/20/2005</b>	<b>&lt;250</b>	<b>NA</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;5.0</b>	<b>39</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;25</b>	<b>343.48</b>	<b>27.12</b>	<b>316.36</b>

MW-2	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	<2.0	<2.0	<2.0	<50	NA	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	342.86	30.30	312.56

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)
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MW-2	05/09/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	342.86	29.83	313.03
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	07/08/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	342.86	29.86	313.00
MW-2	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88
MW-2	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/03/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	342.86	30.43	312.43
MW-2	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.79	313.07
MW-2	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.00	312.86
MW-2	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.14	312.72
MW-2	01/06/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	342.86	30.05	312.81
MW-2	04/06/2004	<2,000	NA	<20	<20	<20	<40	4,600	NA	NA	NA	5,100	342.86	29.30	313.56
MW-2	07/30/2004	<500	NA	<5.0	<5.0	<5.0	<10	1,000	NA	NA	NA	950	342.86	28.80	314.06
MW-2	10/07/2004	<2,500	NA	<25	<25	<25	<50	6,300	NA	NA	NA	6,500	342.86	28.02	314.84
MW-2	01/26/2005	<1,300	NA	<13	<13	<13	<25	2,100	<50	<50	<50	2,300	342.86	33.12	309.74
MW-2	04/14/2005	<500	NA	<5.0	<5.0	<5.0	<5.0	2,400	NA	NA	NA	1,100	342.86	25.55	317.31
MW-2	07/29/2005	<2,500	NA	<25	<25	<25	<50	3,900	NA	NA	NA	1,500	342.86	25.98	316.88
<b>MW-2</b>	<b>10/20/2005</b>	<b>&lt;2,500</b>	<b>NA</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;50</b>	<b>2,500</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>480</b>	<b>342.86</b>	<b>25.91</b>	<b>316.95</b>

MW-3	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	<20	<20	<20	1,500	NA	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	342.23	30.76	311.47
MW-3	05/09/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	342.23	30.04	312.19
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	07/08/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	342.23	30.11	312.12

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)
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MW-3	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28
MW-3	10/03/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	342.23	29.97	312.26
MW-3	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.97	312.26
MW-3	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.43	312.80
MW-3	01/06/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	342.23	29.25	312.98
MW-3	04/06/2004	<5,000	NA	<50	<50	<50	<100	4,200	NA	NA	NA	2,100	342.23	28.82	313.41
MW-3	07/30/2004	<2,500	NA	<25	<25	<25	<50	3,000	NA	NA	NA	1,200	342.23	28.73	313.50
MW-3	10/07/2004	<1,000	NA	<10	<10	<10	<20	860	NA	NA	NA	320	342.23	28.72	313.51
MW-3	01/26/2005	<500	NA	<5.0	<5.0	<5.0	<10	820	<20	<20	<20	250	342.23	26.50	315.73
MW-3	04/14/2005	<400	NA	<4.0	<4.0	<4.0	<4.0	2,200	NA	NA	NA	590	342.23	26.15	316.08
MW-3	07/29/2005	<2,500	NA	<25	<25	<25	<50	3,100	NA	NA	NA	1,700	342.23	25.50	316.73
<b>MW-3</b>	<b>10/20/2005</b>	<b>&lt;2,000</b>	<b>NA</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;40</b>	<b>1,700</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>220</b>	<b>342.23</b>	<b>26.85</b>	<b>315.38</b>

MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	32.20	NA
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	343.44	32.07	311.37
MW-4	05/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	343.44	31.35	312.09
MW-4	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	07/08/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	343.44	31.42	312.02
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)
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MW-4	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29
MW-4	10/03/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30
MW-4	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.92	312.52
MW-4	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.82	312.62
MW-4	01/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	343.44	30.24	313.20
MW-4	04/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	16	NA	NA	NA	<5.0	343.44	30.10	313.34
MW-4	07/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	25	NA	NA	NA	<5.0	343.44	29.75	313.69
MW-4	10/07/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	35	NA	NA	NA	<5.0	343.44	29.79	313.65
MW-4	01/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	450	<10	<10	<10	43	343.44	27.60	315.84
MW-4	04/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	210	NA	NA	NA	<5.0	343.44	27.40	316.04
MW-4	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	57	NA	NA	NA	11	343.44	26.68	316.76
<b>MW-4</b>	<b>10/20/2005</b>	<b>&lt;50 a</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>44</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>343.44</b>	<b>27.72</b>	<b>315.72</b>

MW-5	02/08/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340.88	26.83	314.05
MW-5	02/10/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	5.1	<2.0	<2.0	<2.0	<5.0	340.88	27.13	313.75
MW-5	04/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	340.88	26.44	314.44
MW-5	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	340.88	26.73	314.15
<b>MW-5</b>	<b>10/20/2005</b>	<b>56</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;0.50</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>340.88</b>	<b>26.95</b>	<b>313.93</b>

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

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

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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 or Tertiary butanol, 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:

a = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

Site surveyed November 22, 2002 by Mid Coast Engineers.

MW-5 surveyed January 31, 2005 by Mid Coast Engineers of Watsonville, CA.



19 December, 2005

Michael Ninokata  
Blaine Tech Services - San Jose (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

RE: 6750 Santa Rita Rd., Pleasanton  
Work Order: MOL0452

Enclosed are the results of analyses for samples received by the laboratory on 12/08/05 13:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen  
Project Manager

CA ELAP Certificate #1210

Blaine Tech Services - San Jose (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project:6750 Santa Rita Rd., Pleasanton Project Number:97464711 Project Manager:Michael Ninokata	MOL0452 <b>Reported:</b> 12/19/05 16:14
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	MOL0452-01	Water	12/07/05 15:26	12/08/05 13:34
MW-7	MOL0452-02	Water	12/07/05 14:13	12/08/05 13:34

Blaine Tech Services - San Jose (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project:6750 Santa Rita Rd., Pleasanton  
Project Number:97464711  
Project Manager:Michael Ninokata

MOL0452  
**Reported:**  
12/19/05 16:14

**EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1)**

**Del Mar Analytical, Colton**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MOL0452-01) Water Sampled: 12/07/05 15:26 Received: 12/08/05 13:34</b>									
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	C5L1521	12/15/05	12/16/05	EPA 504.1	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>122 %</i>	<i>65-170</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<b>MW-7 (MOL0452-02) Water Sampled: 12/07/05 14:13 Received: 12/08/05 13:34</b>									
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	C5L1521	12/15/05	12/16/05	EPA 504.1	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>124 %</i>	<i>65-170</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	



Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

### Extractable Hydrocarbons by EPA 8015B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MOL0452-01) Water    Sampled: 12/07/05 15:26    Received: 12/08/05 13:34</b>									
<b>Diesel Range Organics (C10-C28)</b>	<b>130</b>	47	ug/l	1	5L12007	12/12/05	12/13/05	EPA 8015B-SVOA	HC-12
<i>Surrogate: n-Octacosane</i>		83 %	34-123		"	"	"	"	
<b>MW-7 (MOL0452-02) Water    Sampled: 12/07/05 14:13    Received: 12/08/05 13:34</b>									
<b>Diesel Range Organics (C10-C28)</b>	<b>190</b>	49	ug/l	1	5L12007	12/12/05	12/13/05	EPA 8015B-SVOA	HC-12
<i>Surrogate: n-Octacosane</i>		74 %	34-123		"	"	"	"	

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MOL0452-01) Water Sampled: 12/07/05 15:26 Received: 12/08/05 13:34</b>									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L15027	12/15/05	12/15/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>112 %</i>	<i>60-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<b>MW-7 (MOL0452-02) Water Sampled: 12/07/05 14:13 Received: 12/08/05 13:34</b>									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L15027	12/15/05	12/15/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>114 %</i>	<i>60-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

**EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1) - Quality Control**  
**Del Mar Analytical, Colton**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch C5L1521 - EPA 505 / EPA 504.1**
**Blank (C5L1521-BLK1)**

Prepared &amp; Analyzed: 12/15/05

1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.26</i>		<i>"</i>	<i>5.00</i>		<i>125</i>	<i>65-170</i>			

**Laboratory Control Sample (C5L1521-BS1)**

Prepared &amp; Analyzed: 12/15/05

1,2-Dibromoethane (EDB)	0.266	0.020	ug/l	0.250		106	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.42</i>		<i>"</i>	<i>5.00</i>		<i>128</i>	<i>65-170</i>			

**Laboratory Control Sample Dup (C5L1521-BSD1)**

Prepared: 12/15/05 Analyzed: 12/16/05

1,2-Dibromoethane (EDB)	0.116	0.020	ug/l	0.100		116	70-130	9	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.55</i>		<i>"</i>	<i>5.00</i>		<i>131</i>	<i>65-170</i>			

**Matrix Spike (C5L1521-MS1)**
**Source: COL0331-01**

Prepared &amp; Analyzed: 12/15/05

1,2-Dibromoethane (EDB)	0.233	0.020	ug/l	0.244	ND	95	60-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.12</i>		<i>"</i>	<i>4.89</i>		<i>125</i>	<i>65-170</i>			

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

### Extractable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L12007 - EPA 3510C / EPA 8015B-SVOA**
**Blank (5L12007-BLK1)**

Prepared: 12/12/05 Analyzed: 12/13/05

Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	43.1		"	50.0		86	34-123			

**Laboratory Control Sample (5L12007-BS1)**

Prepared: 12/12/05 Analyzed: 12/13/05

Diesel Range Organics (C10-C28)	370	50	ug/l	500		74	51-128			
Surrogate: n-Octacosane	41.3		"	50.0		83	34-123			

**Matrix Spike (5L12007-MS1)**
**Source: MOL0334-01**

Prepared: 12/12/05 Analyzed: 12/13/05

Diesel Range Organics (C10-C28)	376	48	ug/l	481	54	67	51-128			
Surrogate: n-Octacosane	42.5		"	48.1		88	34-123			

**Matrix Spike Dup (5L12007-MSD1)**
**Source: MOL0334-01**

Prepared: 12/12/05 Analyzed: 12/13/05

Diesel Range Organics (C10-C28)	435	48	ug/l	481	54	79	51-128	15	27	
Surrogate: n-Octacosane	42.7		"	48.1		89	34-123			

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L15027 - EPA 5030B P/T / EPA 8260B**
**Blank (5L15027-BLK1)**

Prepared &amp; Analyzed: 12/15/05

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.68		"	2.50		107	60-135			

**Laboratory Control Sample (5L15027-BS1)**

Prepared &amp; Analyzed: 12/15/05

Gasoline Range Organics (C4-C12)	474	50	ug/l	440		108	60-140			
Benzene	4.48	0.50	"	5.16		87	65-115			
Toluene	33.8	0.50	"	37.2		91	85-120			
Ethylbenzene	6.68	0.50	"	7.54		89	75-135			
Xylenes (total)	38.0	0.50	"	41.2		92	85-125			
Methyl tert-butyl ether	7.89	0.50	"	7.02		112	65-125			
Di-isopropyl ether	16.4	0.50	"	15.1		109	75-125			
Ethyl tert-butyl ether	16.5	0.50	"	15.0		110	75-130			
tert-Amyl methyl ether	16.2	0.50	"	15.0		108	80-115			
tert-Butyl alcohol	145	5.0	"	143		101	75-150			
1,2-Dichloroethane	15.1	0.50	"	14.7		103	85-130			
Ethanol	126	100	"	142		89	70-135			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.57		"	2.50		103	60-135			

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5L15027 - EPA 5030B P/T / EPA 8260B**
**Laboratory Control Sample Dup (5L15027-BSD1)**

Prepared &amp; Analyzed: 12/15/05

Gasoline Range Organics (C4-C12)	497	50	ug/l	440		113	60-140	5	25	
Benzene	4.71	0.50	"	5.16		91	65-115	5	20	
Toluene	35.7	0.50	"	37.2		96	85-120	5	20	
Ethylbenzene	7.11	0.50	"	7.54		94	75-135	6	15	
Xylenes (total)	40.2	0.50	"	41.2		98	85-125	6	20	
Methyl tert-butyl ether	8.52	0.50	"	7.02		121	65-125	8	20	
Di-isopropyl ether	17.0	0.50	"	15.1		113	75-125	4	15	
Ethyl tert-butyl ether	17.3	0.50	"	15.0		115	75-130	5	25	
tert-Amyl methyl ether	17.2	0.50	"	15.0		115	80-115	6	15	
tert-Butyl alcohol	167	5.0	"	143		117	75-150	14	25	
1,2-Dichloroethane	15.8	0.50	"	14.7		107	85-130	5	20	
Ethanol	151	100	"	142		106	70-135	18	35	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.64</i>		<i>"</i>	<i>2.50</i>		<i>106</i>	<i>60-135</i>			

Blaine Tech Services - San Jose (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project:6750 Santa Rita Rd., Pleasanton  
Project Number:97464711  
Project Manager:Michael Ninokata

MOL0452  
**Reported:**  
12/19/05 16:14

#### Notes and Definitions

HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference





# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Shell (Test America)  
 REC. BY (PRINT) JT  
 WORKORDER: M66452

DATE REC'D AT LAB: 12/08/05  
 TIME REC'D AT LAB: 1334  
 DATE LOGGED IN: 12-11-05

For Regulatory Purposes?  
 DRINKING WATER YES  NO   
 WASTE WATER YES  NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="checkbox"/> Absent Intact / Broken*	61	<del>EA</del>	MW-6	1L Amber-2	-	-	W	12/7/05	
2. Chain-of-Custody Present / <input checked="" type="checkbox"/> Absent*	62	<del>EA</del>	MW-7	Voa-6	Hcl	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent			↓	Voa-6	Hcl	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent									
5. Airbill #:									
6. Sample Labels: Present / <input checked="" type="checkbox"/> Absent									
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*									
10. Sample received within hold time? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*									
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*									
12. Proper preservatives used? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="checkbox"/> No*									
14. Read Temp: <u>2.1°C</u> Corrected Temp: <u>2.1°C</u> Is corrected temp 4 +/- 2°C? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No**									

JT 12/108/05

\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.





# Repair Data Sheet

Client Shell Date 11-1-05  
 Site Address 6750 Santa Rita Road, Pleasanton  
 Job Number 051101AA2 Technician Andrew Adinolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check indicates deficiency										Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Not Securable by Design (12" diameter or less)	Lid not marked with words "MONITORING WELL"	Other Deficiency					
MW-5																			X
Notes: Annular seal missing; casing too low inside casing 1-20																			
MW-4						X													X
Notes: 1 of 2 bolts stripped, rtap 2 new bolts added																			
Notes:																			
Notes:																			
Notes:																			

# WELLHEAD INSPECTION CHECKLIST

Date 10/20/05 Client Shell

Site Address 6750 Santa Rita Rd., Pleasanton

Job Number 051020-PC1 Technician P. Carney

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	↑							
MW-2	↑							
MW-3	↑							
MW-4	↑						↑	
MW-5							↑	

NOTES: MW-5 - Annular seal deficient  
MW-4 1/2 tabs stripped

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# Repair Data Sheet

Client Shell Date 10-12-03  
 Site Address 6750 Santa Rita Rd, Pleasanton  
 Job Number OS102AA1 Technician Andrew Adinolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency								Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Other Deficiency						
MW2												X						X
Notes: Wellbox ring is loose and broken, replaced wellbox																		
Notes:																		
Notes:																		
Notes:																		
Notes:																		



## SHELL WELL MONITORING DATA SHEET

BTS #: <u>051207-DW2</u>	Site: <u>97464711</u>
Sampler: <u>Dave W</u>	Date: <u>12/07/05</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>32.90</u>	Depth to Water (DTW): <u>26.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>27.5</u>	

Purge Method: Bailer Disposable Bailer Waterra Peristaltic Extraction Pump  
 Positive Air Displacement Other \_\_\_\_\_  
 Electric Submersible

Sampling Method: Bailer Disposable Bailer  
 Extraction Port Dedicated Tubing  
 Other: \_\_\_\_\_

$1.1$ (Gals.) X $3$ = $3.3$ Gals. I Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1456	63.4	6.9	3371	831	1.1	Hazy
1500	65.3	6.9	3425	>1000	2.2	"
1504	66.2	6.8	3400	>1000	3.3	Dark cloudy

Did well dewater? Yes  No  Gallons actually evacuated: 3.5

Sampling Date: 12/07/05 Sampling Time: 1526 Depth to Water: 29.70

Sample I.D.: MW-6 Laboratory: STL Other TA-Morgan Hill

Analyzed for: TPH-G BTEX MTBE TPH-D Other: oxy's, 1,2-DCA, EDB

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**

DLB



## SHELL WELL MONITORING DATA SHEET

BTS #: <u>051207-DW2</u>	Site: <u>97464711</u>
Sampler: <u>Dave W</u>	Date: <u>12/07/05</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>28.94</u>	Depth to Water (DTW): <u>27.29</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>27.62</u>	

Purge Method:  Bailer      Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible       Other \_\_\_\_\_       Dedicated Tubing  
 Other: \_\_\_\_\_

.3 (Gals.) X 3 = .9 Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1400	63.4	7	3314	> 1000	.3	cloudy
1404	65.3	7.1	3550	> 1000	.6	"
1408	66.1	7.1	3500	> 1000	.9	"
filled 1 of 2 1L Ambers due to leak of water						

Did well dewater? Yes  No  Gallons actually evacuated: 1

Sampling Date: 12/07/05      Sampling Time: 1413      Depth to Water: 27.60

Sample I.D.: MW-7      Laboratory: STL      Other: TA - Morgan Hill

Analyzed for:  TPH-C  BTEX MTBE  TPH-D Other: Oxy's 1, 2-DCA, EDB

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV



# WELL DEVELOPMENT DATA SHEET

Project #: 05	Client: Shell
Developer: WE	Date Developed: 12/1/05
Well I.D. MW-6	Well Diameter: (circle one) <u>3</u> 3 4 6
Total Well Depth: Before 28.94 After 28.96	Depth to Water: Before 27.44 After 28.40
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged well w/ 2" Surge block for 10 minutes prior to purge.	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

<u>0.2</u>	X	<u>10</u>	=	<u>2.0</u>	gallons
1 Case Volume		Specified Volumes			

Purging Device:

- Bailer                       Electric Submersible  
 Suction Pump                       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used \_\_\_\_\_

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1445	65.6	7.5	3854	7000	0.2	Hard bottom detected
1446	66.1	7.5	3918		0.4	light brown
1447	66.5	7.5	3892		0.6	getting darker / more silt
1448	66.5	7.5	3812		0.8	(significantly lighter than MW.1)
1450	66.4	7.5	3752		1.0	light brown / less silt
1452	66.5	7.4	3720		1.2	"
1454	66.1	7.5	3742		1.4	Light brown
1456	66.3	7.5	3737		1.6	"
1458	65.7	7.5	3739		1.8	Turbidity near 1000
1501	66.0	7.5	3782	1000	2.0	Light brown

Did Well Dewater? <u>no</u>	If yes, note above.	Gallons Actually Evacuated: <u>20</u>
-----------------------------	---------------------	---------------------------------------

## WELL DEVELOPMENT DATA SHEET

Project #: <u>051201-wc-2</u>	Client: <u>Shell</u>
Developer: <u>WC</u>	Date Developed: <u>12/1/05</u>
Well I.D. <u>MW-7</u>	Well Diameter: (circle one) <del>2</del> <u>3</u> 4 6
Total Well Depth: Before <u>28.88</u> After <u>28.90</u>	Depth to Water: Before <u>27.48</u> After <u>28.22</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>Surged well w/ 2" well surge block for 10-min periods</u>	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

<u>0.2</u>	X	<u>10</u>	=	<u>2.0</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:  Bailer       Electric Submersible  
 Suction Pump       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
<u>14123</u>	<u>64.0</u>	<u>7.6</u>	<u>3449</u>	<u>&gt;1000</u>	<u>0.2</u>	<u>Hard bottom/silty brown</u>
<u>14124</u>	<u>66.4</u>	<u>7.6</u>	<u>3614</u>		<u>0.4</u>	<u>"</u>
<u>14125</u>	<u>66.5</u>	<u>7.6</u>	<u>3676</u>		<u>0.6</u>	<u>"</u>
<u>14126</u>	<u>67.0</u>	<u>7.6</u>	<u>3699</u>		<u>0.8</u>	<u>less silt/Brown</u>
<u>14127</u>	<u>67.1</u>	<u>7.6</u>	<u>3713</u>		<u>1.0</u>	<u>"</u>
<u>14128</u>	<u>67.0</u>	<u>7.6</u>	<u>3732</u>		<u>1.2</u>	<u>"</u>
<u>14129</u>	<u>67.0</u>	<u>7.7</u>	<u>3721</u>		<u>1.4</u>	<u>thinning out/Brown</u>
<u>14130</u>	<u>66.9</u>	<u>7.7</u>	<u>3725</u>		<u>1.6</u>	<u>"</u>
<u>14131</u>	<u>67.2</u>	<u>7.6</u>	<u>3717</u>		<u>1.8</u>	<u>"</u>
<u>14132</u>	<u>67.0</u>	<u>7.6</u>	<u>3725</u>	<u>&gt;1000</u>	<u>2.0</u>	<u>lighter Brown/silt silty</u>

Did Well Dewater? No      If yes, note above.      Gallons Actually Evacuated: 20

## WELL GAUGING DATA

Project # 051020-PC1 Date 10/20/05 Client Shell

Site 6750 Santa Rita Rd., Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <del>POB</del>
MW-1	2					27.12	41.71	TOB
MW-2	2					25.91	41.78	 ↓
MW-3	2					26.55	<del>24.06</del>	
MW-4	2					27.72	44.03	
MW-5	2					26.95	32.05	











## SHELL WELL MONITORING DATA SHEET

BTS #: <u>051020-PC1</u>	Site: <u>97464711</u>
Sampler: <u>PC</u>	Date: <u>10/20/05</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>3</u> 4 6 8 _____
Total Well Depth (TD): <u>32.05</u>	Depth to Water (DTW): <u>26.95</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>27.97</u>	

Purge Method:  Bailer       Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_       Dedicated Tubing

$\underline{0.8} \text{ (Gals.)} \times \underline{3} = \underline{2.4} \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1050	66.5	7.1	3274	71000	.8	
1051	67.0	6.9	3311	71000	1.6	
1053	66.7	6.9	3301	>1000	2.4	

Did well dewater? Yes  No  Gallons actually evacuated: 2.5

Sampling Date: 10/20/05      Sampling Time: 1234      Depth to Water: 27.17

Sample I.D.: MW-5      Laboratory: SD      Other: \_\_\_\_\_

Analyzed for: ~~TPH-G BTEX MTBE~~      TPH-D      Other: TRA

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D      Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

**Attachment B**

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**LABORATORY CERTIFIED ANALYTICAL REPORTS AND CHAIN OF CUSTODY  
DOCUMENTATION FOR DISCHARGE SAMPLES**

**Delta Env. Consultants San Jose**

September 30, 2005

175 Bernal Road, Suite 200  
San Jose, CA 95119

Attn.: Garrett Haertel  
Project: 97464711  
Site: 6750 Santa Rita Rd, Pleasanton, CA

Dear Mr. Haertel:

Attached is our report for your samples received on 09/27/2005 14:44

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 11/11/2005 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](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: 97464711

Received: 09/27/2005 14:44

Site: 6750 Santa Rita Rd, Pleasanton, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-2 50 GAL	09/26/2005 17:45	Water	1

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: 97464711

Received: 09/27/2005 14:44

Site: 6750 Santa Rita Rd, Pleasanton, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>MW-2 50 GAL</b>	Lab ID:	2005-09-0677 - 1
Sampled:	09/26/2005 17:45	Extracted:	9/29/2005 16:25
Matrix:	Water	QC Batch#:	2005/09/29-1A.64
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1000	ug/L	20.00	09/29/2005 16:25	
Benzene	ND	10	ug/L	20.00	09/29/2005 16:25	
Toluene	ND	10	ug/L	20.00	09/29/2005 16:25	
Ethylbenzene	ND	10	ug/L	20.00	09/29/2005 16:25	
Total xylenes	ND	20	ug/L	20.00	09/29/2005 16:25	
tert-Butyl alcohol (TBA)	280	100	ug/L	20.00	09/29/2005 16:25	
Methyl tert-butyl ether (MTBE)	2600	10	ug/L	20.00	09/29/2005 16:25	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	112.3	73-130	%	20.00	09/29/2005 16:25	
Toluene-d8	108.7	81-114	%	20.00	09/29/2005 16:25	

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: 97464711

Received: 09/27/2005 14:44

Site: 6750 Santa Rita Rd, Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2005/09/29-1A.64-052

**Water**

Test(s): 8260B

**QC Batch # 2005/09/29-1A.64**

Date Extracted: 09/29/2005 10:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	09/29/2005 10:16	
Benzene	ND	0.5	ug/L	09/29/2005 10:16	
Toluene	ND	0.5	ug/L	09/29/2005 10:16	
Ethylbenzene	ND	0.5	ug/L	09/29/2005 10:16	
Total xylenes	ND	1.0	ug/L	09/29/2005 10:16	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/29/2005 10:16	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/29/2005 10:16	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	94.6	73-130	%	09/29/2005 10:16	
Toluene-d8	108.0	81-114	%	09/29/2005 10:16	

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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

175 Bernal Road, Suite 200  
San Jose, CA 95119  
Phone: (408) 224-4724 Fax: (408) 224-4518  
Project: 97464711

Received: 09/27/2005 14:44  
Site: 6750 Santa Rita Rd, Pleasanton, CA

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2005/09/29-1A.64</b>				
LCS	2005/09/29-1A.64-051		Extracted: 09/29/2005			Analyzed: 09/29/2005 08:51				
LCSD	2005/09/29-1A.64-012		Extracted: 09/29/2005			Analyzed: 09/29/2005 09:12				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.2	24.4	25	92.8	97.6	5.0	65-165	20		
Benzene	27.2	26.7	25	108.8	106.8	1.9	69-129	20		
Toluene	27.6	26.9	25	110.4	107.6	2.6	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	476	487	500	95.2	97.4		73-130			
Toluene-d8	545	533	500	109.0	106.6		81-114			



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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: 97464711

Received: 09/27/2005 14:44

Site: 6750 Santa Rita Rd, Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/09/29-1A.64**

MS/MSD

Lab ID: 2005-09-0680 - 001

MS: 2005/09/29-1A.64-016

Extracted: 09/29/2005

Analyzed: 09/29/2005 13:16

Dilution: 1.00

MSD: 2005/09/29-1A.64-037

Extracted: 09/29/2005

Analyzed: 09/29/2005 13:37

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	17.4	15.4	ND	25	69.6	61.6	12.2	65-165	20		M5
Benzene	26.8	25.8	ND	25	107.2	103.2	3.8	69-129	20		
Toluene	28.0	26.4	ND	25	112.0	105.6	5.9	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	543	529		500	108.6	105.8		73-130			
Toluene-d8	544	534		500	108.8	106.8		81-114			

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: 97464711

Received: 09/27/2005 14:44

Site: 6750 Santa Rita Rd, Pleasanton, CA

**Legend and Notes**

**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present in the sample.

**Result Flag**

M5

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

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

**Equiva Project Manager to be invoiced:**

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON

Denis Brown  
**2005-09-0677**

**INCIDENT NUMBER (S&E ONLY)**  
9 7 4 6 4 7 1 1

**SAP or CRMT NUMBER (TS/CRMT)**

DATE: 9-27-2005  
PAGE: 1 of 1

**SAMPLING COMPANY:** Delta Environmental Consultants  
**LOG CODE:**  
**ADDRESS:** 175 Bernal Rd #200, San Jose, CA 95119  
**PROJECT CONTACT (Hardcopy or PDF Report to):** Garrett Haertel  
TELEPHONE: (408) 224-4724 FAX: (408) 225-8506 E-MAIL: ghaertel@deltaenv.com

**SITE ADDRESS (Street and City):** 6750 Santa Rita Rd, Pleasanton, CA  
**EDF DELIVERABLE TO (Responsible Party or Designee):** Justin Link  
**PHONE NO.:** 408.224.4724  
**E-MAIL:** jlink@deltaenv.com  
**CONSULTANT PROJECT NO.:**

**SAMPLER NAME(S) (Print):** Jim Bobey  
**LAB USE ONLY**

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBF CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

**SPECIAL INSTRUCTIONS OR NOTES:** CHECK BOX IF EDD IS NEEDED   
Also email results to: darnold@deltaenv.com

**REQUESTED ANALYSIS**

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	TBA	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal ( 4B- )	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	<b>FIELD NOTES:</b> Container/Preservative or PID Readings or Laboratory Notes
----------------------	------	------------------------	--------------------------	---------------------------	-----------------	-----	-----------------------	-----------------------------------	-----------------------------------	--------------	--------------------------------	------------------------------	------------------------	--------------------------------	---------------------------	-----------------------------------	-------------------------------------	---

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	TBA	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal ( 4B- )	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C°
		DATE	TIME																					
	MW-2 50 GAL	9/26/2005	17:45	water	6	X	X	X			X													2
																								5-Day Turnaround

Received by: (Signature) <i>Jim Bobey</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/27/05	Time: 1444
Received by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/27/05	Time: 17:30
Received by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date:	Time:

**Delta Env. Consultants San Jose**

October 12, 2005

175 Bernal Road, Suite 200  
San Jose, CA 95119

Attn.: Garrett Haertel  
Project: 97464711  
Site: 6750 Santa Rita Rd., Pleasanton, CA

Dear Mr. Haertel:

Attached is our report for your samples received on 10/04/2005 13:40

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/18/2005 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](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1874 Fax: (408) 225-8506

Project: 97464711

Received: 10/04/2005 13:40

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-2 475 GAL	10/03/2005 12:10	Water	1

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1874 Fax: (408) 225-8506

Project: 97464711

Received: 10/04/2005 13:40

Site: 6750 Santa Rita Rd., Pleasanton, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>MW-2 475 GAL</b>	Lab ID: 2005-10-0051 - 1
Sampled: 10/03/2005 12:10	Extracted: 10/6/2005 15:29
Matrix: Water	QC Batch#: 2005/10/06-1A.64
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1000	ug/L	20.00	10/06/2005 15:29	
Benzene	ND	10	ug/L	20.00	10/06/2005 15:29	
Toluene	ND	10	ug/L	20.00	10/06/2005 15:29	
Ethylbenzene	ND	10	ug/L	20.00	10/06/2005 15:29	
Total xylenes	ND	20	ug/L	20.00	10/06/2005 15:29	
tert-Butyl alcohol (TBA)	370	100	ug/L	20.00	10/06/2005 15:29	
Methyl tert-butyl ether (MTBE)	1800	10	ug/L	20.00	10/06/2005 15:29	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	112.0	73-130	%	20.00	10/06/2005 15:29	
Toluene-d8	108.7	81-114	%	20.00	10/06/2005 15:29	

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1874 Fax: (408) 225-8506

Project: 97464711

Received: 10/04/2005 13:40

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2005/10/06-1A.64**

MB: 2005/10/06-1A.64-035

Date Extracted: 10/06/2005 08:35

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/06/2005 08:35	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/06/2005 08:35	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/06/2005 08:35	
Benzene	ND	0.5	ug/L	10/06/2005 08:35	
Toluene	ND	0.5	ug/L	10/06/2005 08:35	
Ethylbenzene	ND	0.5	ug/L	10/06/2005 08:35	
Total xylenes	ND	1.0	ug/L	10/06/2005 08:35	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	102.2	73-130	%	10/06/2005 08:35	
Toluene-d8	106.0	81-114	%	10/06/2005 08:35	

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1874 Fax: (408) 225-8506

Project: 97464711

Received: 10/04/2005 13:40

Site: 6750 Santa Rita Rd., Pleasanton, CA

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2005/10/06-1A.64</b>				
LCS	2005/10/06-1A.64-014		Extracted: 10/06/2005			Analyzed: 10/06/2005 08:14				
LCSD	2005/10/06-1A.64-055		Extracted: 10/06/2005			Analyzed: 10/06/2005 08:55				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.4	23.8	25	93.6	95.2	1.7	65-165	20		
Benzene	26.8	27.8	25	107.2	111.2	3.7	69-129	20		
Toluene	27.6	27.6	25	110.4	110.4	0.0	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	487	485	500	97.4	97.0		73-130			
Toluene-d8	544	550	500	108.8	110.0		81-114			



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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1874 Fax: (408) 225-8506

Project: 97464711

Received: 10/04/2005 13:40

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B	Test(s): 8260B	
<b>Matrix Spike ( MS / MSD )</b>	<b>Water</b>	<b>QC Batch # 2005/10/06-1A.64</b>
MS/MSD		Lab ID: 2005-10-0052 - 005
MS: 2005/10/06-1A.64-054	Extracted: 10/06/2005	Analyzed: 10/06/2005 09:54
		Dilution: 1.00
MSD: 2005/10/06-1A.64-015	Extracted: 10/06/2005	Analyzed: 10/06/2005 10:15
		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	22.7	22.1	ND	25	90.8	88.4	2.7	65-165	20		
Benzene	26.2	24.9	ND	25	104.8	99.6	5.1	69-129	20		
Toluene	25.5	24.7	ND	25	102.0	98.8	3.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	486	490		500	97.2	98.0		73-130			
Toluene-d8	543	521		500	108.6	104.2		81-114			

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1874 Fax: (408) 225-8506

Project: 97464711

Received: 10/04/2005 13:40

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Legend and Notes**

**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present in the sample.



**Delta Env. Consultants San Jose**

October 18, 2005

175 Bernal Road, Suite 200  
San Jose, CA 95119

Attn.: Garrett Haertel

Project#: SJ67-50S-1.JD2005

Project: 97464711

Site: 6750 Santa Rita Rd., Pleasanton, CA

Dear Mr. Haertel:

Attached is our report for your samples received on 10/10/2005 13:30

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 11/24/2005 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](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

175 Bernal Road, Suite 200  
San Jose, CA 95119  
Phone: (408) 826-1874 Fax: (408) 225-8506

Project: SJ67-50S-1.JD2005  
97464711

Received: 10/10/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-2 1100 GAL	10/07/2005 15:10	Water	1

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200  
San Jose, CA 95119  
Phone: (408) 826-1874 Fax: (408) 225-8506

Project: SJ67-50S-1.JD2005  
97464711

Received: 10/10/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>MW-2 1100 GAL</b>	Lab ID: 2005-10-0195 - 1
Sampled: 10/07/2005 15:10	Extracted: 10/14/2005 11:56
Matrix: Water	QC Batch#: 2005/10/14-1A.64
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	500	ug/L	10.00	10/14/2005 11:56	
Benzene	ND	5.0	ug/L	10.00	10/14/2005 11:56	
Toluene	ND	5.0	ug/L	10.00	10/14/2005 11:56	
Ethylbenzene	ND	5.0	ug/L	10.00	10/14/2005 11:56	
Total xylenes	ND	10	ug/L	10.00	10/14/2005 11:56	
tert-Butyl alcohol (TBA)	130	50	ug/L	10.00	10/14/2005 11:56	
Methyl tert-butyl ether (MTBE)	1300	5.0	ug/L	10.00	10/14/2005 11:56	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.4	73-130	%	10.00	10/14/2005 11:56	
Toluene-d8	108.9	81-114	%	10.00	10/14/2005 11:56	

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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

175 Bernal Road, Suite 200  
San Jose, CA 95119  
Phone: (408) 826-1874 Fax: (408) 225-8506

Project: SJ67-50S-1.JD2005  
97464711

Received: 10/10/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2005/10/14-1A.64**

MB: 2005/10/14-1A.64-020

Date Extracted: 10/14/2005 10:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/14/2005 10:20	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/14/2005 10:20	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/14/2005 10:20	
Benzene	ND	0.5	ug/L	10/14/2005 10:20	
Toluene	ND	0.5	ug/L	10/14/2005 10:20	
Ethylbenzene	ND	0.5	ug/L	10/14/2005 10:20	
Total xylenes	ND	1.0	ug/L	10/14/2005 10:20	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.2	73-130	%	10/14/2005 10:20	
Toluene-d8	104.2	81-114	%	10/14/2005 10:20	

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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

175 Bernal Road, Suite 200  
San Jose, CA 95119  
Phone: (408) 826-1874 Fax: (408) 225-8506

Project: SJ67-50S-1.JD2005  
97464711

Received: 10/10/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2005/10/14-1A.64</b>				
LCS	2005/10/14-1A.64-059		Extracted: 10/14/2005			Analyzed: 10/14/2005 09:59				
LCSD	2005/10/14-1A.64-041		Extracted: 10/14/2005			Analyzed: 10/14/2005 10:41				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.6	24.0	25	98.4	96.0	2.5	65-165	20		
Benzene	26.8	26.8	25	107.2	107.2	0.0	69-129	20		
Toluene	27.1	26.0	25	108.4	104.0	4.1	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	482	490	500	96.4	98.0		73-130			
Toluene-d8	540	539	500	108.0	107.8		81-114			



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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

175 Bernal Road, Suite 200  
San Jose, CA 95119  
Phone: (408) 826-1874 Fax: (408) 225-8506

Project: SJ67-50S-1.JD2005  
97464711

Received: 10/10/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

Batch QC Report											
Prep(s): 5030B						Test(s): 8260B					
<b>Matrix Spike ( MS / MSD )</b>				<b>Water</b>				<b>QC Batch # 2005/10/14-1A.64</b>			
MW-2 1100 GAL >> MS						Lab ID: 2005-10-0195 - 001					
MS: 2005/10/14-1A.64-017			Extracted: 10/14/2005			Analyzed: 10/14/2005 12:17			Dilution: 10.00		
MSD: 2005/10/14-1A.64-038			Extracted: 10/14/2005			Analyzed: 10/14/2005 12:38			Dilution: 10.00		

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	1610	1640	1280	250	132.0	144.0	8.7	65-165	20		
Benzene	292	306	4.51	250	115.0	120.6	4.8	69-129	20		
Toluene	293	302	ND	250	117.2	120.8	3.0	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	528	538		500	105.6	107.6		73-130			
Toluene-d8	542	556		500	108.4	111.2		81-114			

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1874 Fax: (408) 225-8506

Project: SJ67-50S-1.JD2005

97464711

Received: 10/10/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Legend and Notes**

**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present in the sample.

Equiva Project Manager to be invoiced:

1220 Quarry Lane  
Pleasanton, CA

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

**2005-10-0195**

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 10-04-2005

PAGE: 1 of 1

SAMPLING COMPANY: <b>Delta Environmental Consultants</b>		LOG CODE:	SITE ADDRESS (Street and City): <b>6750 Santa Rita Rd, Pleasanton, CA</b>		GLOBAL ID NO.: <b>T0600102532</b>
ADDRESS: <b>175 Bernal Rd #200, San Jose, CA 95119</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Justin Link</b>		PHONE NO.: <b>408.224.4724</b>	E-MAIL: <b>jlink@deltaenv.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Garrett Haertel</b>		SAMPLER NAME(S) (Print): <b>Jim Bobey</b>			LAB USE ONLY
TELEPHONE: <b>(408) 224-4724</b>	FAX: <b>(408) 225-8506</b>	E-MAIL: <b>ghaertel@deltaenv.com</b>			

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED

Also email results to: darnold@deltaenv.com

REQUESTED ANALYSIS															FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes			
TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	TBA	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418-1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)		Test for Disposal (4B-_____)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note
X	X	X				X												TEMPERATURE ON RECEIPT C° 2
																		5-Day Turnaround

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	TBA	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418-1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-_____)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C°
		DATE	TIME																					
	MW-2 1100 GAL	10/7/2005	15:10	water	6	X	X	X			X													2

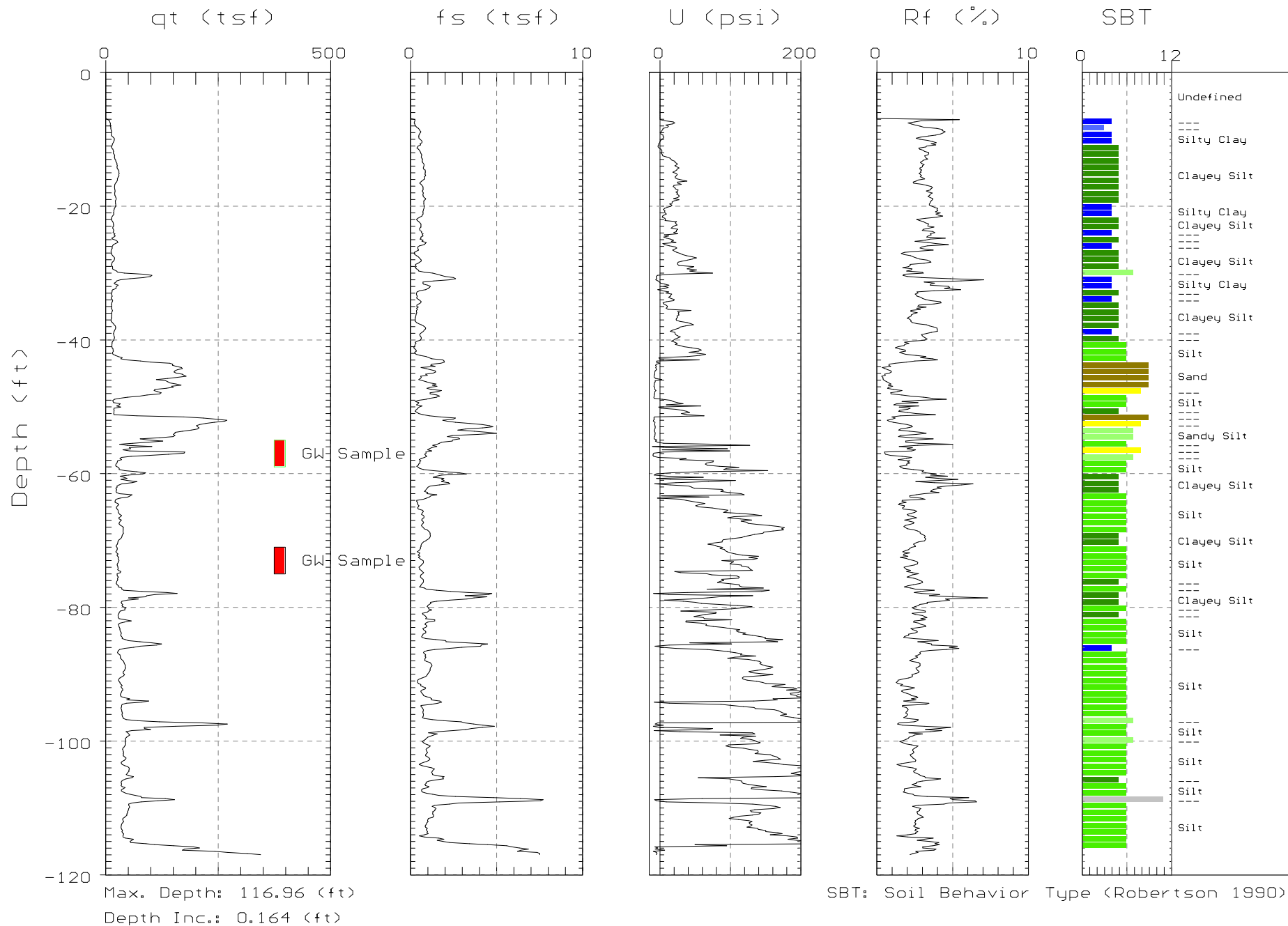
Received by: (Signature) <i>Justin Link</i>	Date: <b>10/10/05</b>	Time: <b>1330</b>
Received by: (Signature) <i>Garrett Haertel</i>	Date: <b>10/10/05</b>	Time: <b>1800</b>
Received by: (Signature)	Date:	Time:



DELTA ENV.

Site: 6750 SANTA RITA  
Location: CPT-01

Engineer: D. ARNOLD  
Date: 12:18:03 08:33

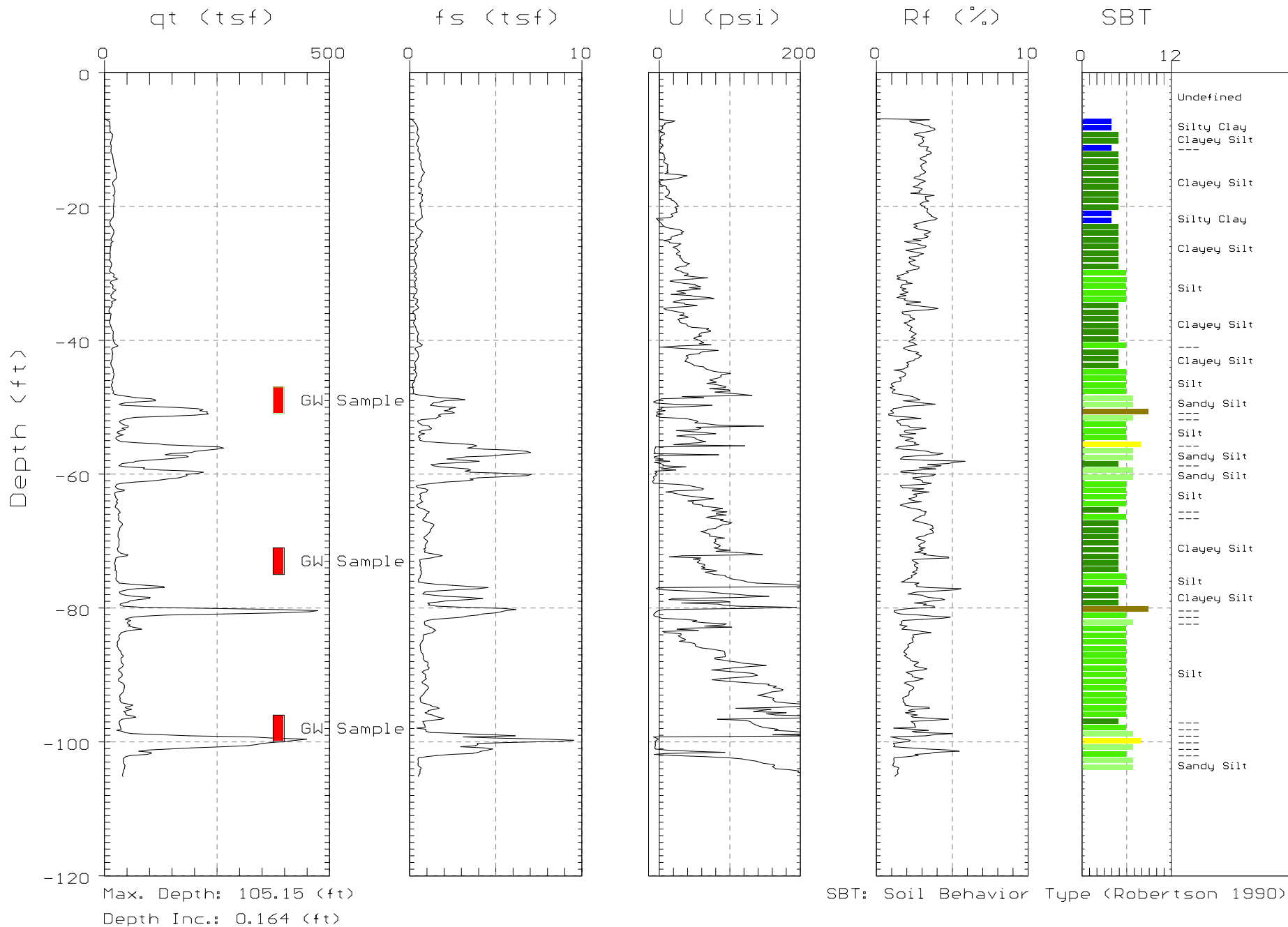




# DELTA ENV.

Site: 6750 SANTA RITA  
Location: CPT-02

Engineer: D. ARNOLD  
Date: 12:19:03 09:54

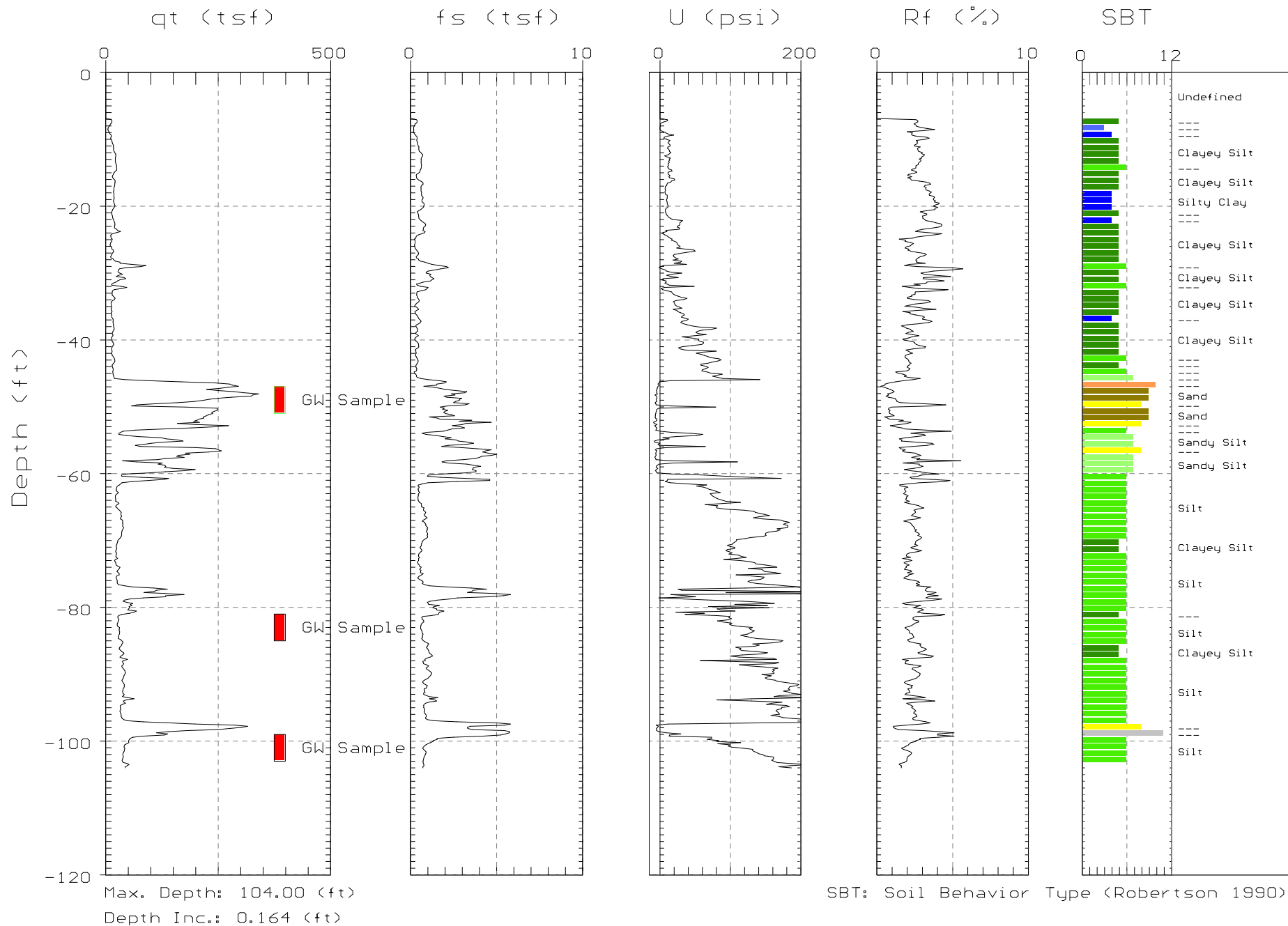




# DELTA ENV.

Site: 6750 SANTA RITA  
Location: CPT-03

Engineer: D. ARNOLD  
Date: 12:18:03 14:13





GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

December 19, 2005

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

Fourth Quarter 2005 Groundwater Monitoring at  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Monitoring performed on October 20 and  
December 1 and 7, 2005

---

Groundwater Monitoring Report **051020-PC-1 (Reissue)**

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

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

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

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

Please call if you have any questions.

Yours truly,

Mike Ninokata  
Project Coordinator

MN/ks

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

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



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	----------------	----------------	----------------	---------------	-----------------------	---------------	--------------	----------------------------	--------------------------

MW-1	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	<2.0	<2.0	<2.0	<50	NA	NA	NA	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	NA	NA	343.48	31.59	311.89
MW-1	05/09/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	NA	NA	343.48	31.10	312.38
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	07/08/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	NA	NA	343.48	30.90	312.58
MW-1	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/03/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	NA	NA	343.48	29.89	313.59
MW-1	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.38	312.10
MW-1	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.71	313.77
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.72	313.76
MW-1	01/06/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	NA	NA	343.48	29.16	314.32
MW-1	04/06/2004	<1,300	NA	<13	<13	<13	<25	3,300	NA	NA	NA	3,500	NA	NA	343.48	31.38	312.10
MW-1	07/30/2004	<1,300	NA	<13	<13	<13	<25	1,000	NA	NA	NA	600	NA	NA	343.48	28.51	314.97
MW-1	10/07/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	530	NA	NA	NA	390	NA	NA	343.48	28.55	314.93
MW-1	01/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	320	<10	<10	<10	130	NA	NA	343.48	27.35	316.13
MW-1	04/14/2005	<150	NA	<1.5	<1.5	<1.5	<1.5	720	NA	NA	NA	260	NA	NA	343.48	26.70	316.78
MW-1	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	270	NA	NA	NA	150	NA	NA	343.48	26.33	317.15
<b>MW-1</b>	<b>10/20/2005</b>	<b>&lt;250</b>	<b>NA</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;5.0</b>	<b>39</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;25</b>	<b>NA</b>	<b>NA</b>	<b>343.48</b>	<b>27.12</b>	<b>316.36</b>

MW-2	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	<2.0	<2.0	<2.0	<50	NA	NA	NA	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	NA	NA	342.86	30.30	312.56

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-2	05/09/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	NA	NA	342.86	29.83	313.03
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	07/08/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	NA	NA	342.86	29.86	313.00
MW-2	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88
MW-2	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/03/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	NA	NA	342.86	30.43	312.43
MW-2	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.79	313.07
MW-2	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.00	312.86
MW-2	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.14	312.72
MW-2	01/06/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	NA	NA	342.86	30.05	312.81
MW-2	04/06/2004	<2,000	NA	<20	<20	<20	<40	4,600	NA	NA	NA	5,100	NA	NA	342.86	29.30	313.56
MW-2	07/30/2004	<500	NA	<5.0	<5.0	<5.0	<10	1,000	NA	NA	NA	950	NA	NA	342.86	28.80	314.06
MW-2	10/07/2004	<2,500	NA	<25	<25	<25	<50	6,300	NA	NA	NA	6,500	NA	NA	342.86	28.02	314.84
MW-2	01/26/2005	<1,300	NA	<13	<13	<13	<25	2,100	<50	<50	<50	2,300	NA	NA	342.86	33.12	309.74
MW-2	04/14/2005	<500	NA	<5.0	<5.0	<5.0	<5.0	2,400	NA	NA	NA	1,100	NA	NA	342.86	25.55	317.31
MW-2	07/29/2005	<2,500	NA	<25	<25	<25	<50	3,900	NA	NA	NA	1,500	NA	NA	342.86	25.98	316.88
<b>MW-2</b>	<b>10/20/2005</b>	<b>&lt;2,500</b>	<b>NA</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;50</b>	<b>2,500</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>480</b>	<b>NA</b>	<b>NA</b>	<b>342.86</b>	<b>25.91</b>	<b>316.95</b>

MW-3	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	<20	<20	<20	1,500	NA	NA	NA	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	NA	NA	342.23	30.76	311.47
MW-3	05/09/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	NA	NA	342.23	30.04	312.19
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	07/08/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	NA	NA	342.23	30.11	312.12

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-3	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28
MW-3	10/03/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	NA	NA	342.23	29.97	312.26
MW-3	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.97	312.26
MW-3	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.43	312.80
MW-3	01/06/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	NA	NA	342.23	29.25	312.98
MW-3	04/06/2004	<5,000	NA	<50	<50	<50	<100	4,200	NA	NA	NA	2,100	NA	NA	342.23	28.82	313.41
MW-3	07/30/2004	<2,500	NA	<25	<25	<25	<50	3,000	NA	NA	NA	1,200	NA	NA	342.23	28.73	313.50
MW-3	10/07/2004	<1,000	NA	<10	<10	<10	<20	860	NA	NA	NA	320	NA	NA	342.23	28.72	313.51
MW-3	01/26/2005	<500	NA	<5.0	<5.0	<5.0	<10	820	<20	<20	<20	250	NA	NA	342.23	26.50	315.73
MW-3	04/14/2005	<400	NA	<4.0	<4.0	<4.0	<4.0	2,200	NA	NA	NA	590	NA	NA	342.23	26.15	316.08
MW-3	07/29/2005	<2,500	NA	<25	<25	<25	<50	3,100	NA	NA	NA	1,700	NA	NA	342.23	25.50	316.73
<b>MW-3</b>	<b>10/20/2005</b>	<b>&lt;2,000</b>	<b>NA</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;40</b>	<b>1,700</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>220</b>	<b>NA</b>	<b>NA</b>	<b>342.23</b>	<b>26.85</b>	<b>315.38</b>

MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	NA	NA	32.20	NA
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	32.07	311.37
MW-4	05/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.35	312.09
MW-4	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	07/08/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.42	312.02
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
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Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-4	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29
MW-4	10/03/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30
MW-4	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.92	312.52
MW-4	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.82	312.62
MW-4	01/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	30.24	313.20
MW-4	04/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	16	NA	NA	NA	<5.0	NA	NA	343.44	30.10	313.34
MW-4	07/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	25	NA	NA	NA	<5.0	NA	NA	343.44	29.75	313.69
MW-4	10/07/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	35	NA	NA	NA	<5.0	NA	NA	343.44	29.79	313.65
MW-4	01/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	450	<10	<10	<10	43	NA	NA	343.44	27.60	315.84
MW-4	04/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	210	NA	NA	NA	<5.0	NA	NA	343.44	27.40	316.04
MW-4	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	57	NA	NA	NA	11	NA	NA	343.44	26.68	316.76
<b>MW-4</b>	<b>10/20/2005</b>	<b>&lt;50 a</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>44</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>NA</b>	<b>NA</b>	<b>343.44</b>	<b>27.72</b>	<b>315.72</b>

MW-5	02/08/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340.88	26.83	314.05
MW-5	02/10/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	5.1	<2.0	<2.0	<2.0	<5.0	NA	NA	340.88	27.13	313.75
MW-5	04/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.44	314.44
MW-5	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.73	314.15
<b>MW-5</b>	<b>10/20/2005</b>	<b>56</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;0.50</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>NA</b>	<b>NA</b>	<b>340.88</b>	<b>26.95</b>	<b>313.93</b>

MW-6	12/01/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.97	27.44	315.53
MW-6	12/07/2005	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.020	342.97	26.15	316.82

MW-7	12/01/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	341.21	27.48	313.73
MW-7	12/07/2005	<50	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.020	341.21	27.29	313.92

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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 or Tertiary butanol, analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B

EDB = 1,2-Dibromoethane or Ethylene dibromide, analyzed by EPA Method 504.1

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:

a = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

Site surveyed November 22, 2002 by Mid Coast Engineers.

MW-5 surveyed January 31, 2005 by Mid Coast Engineers of Watsonville, CA.

Wells MW-6 and MW-7 surveyed December 19, 2005 by Mid Coast Engineers.



GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

December 19, 2005

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

Fourth Quarter 2005 Groundwater Monitoring at  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Monitoring performed on October 20 and  
December 1 and 7, 2005

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Groundwater Monitoring Report **051020-PC-1 (Reissue)**

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

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

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

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

Please call if you have any questions.

Yours truly,

Mike Ninokata  
Project Coordinator

MN/ks

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

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

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	<2.0	<2.0	<2.0	<50	NA	NA	NA	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	NA	NA	343.48	31.59	311.89
MW-1	05/09/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	NA	NA	343.48	31.10	312.38
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	07/08/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	NA	NA	343.48	30.90	312.58
MW-1	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/03/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	NA	NA	343.48	29.89	313.59
MW-1	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.38	312.10
MW-1	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.71	313.77
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.72	313.76
MW-1	01/06/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	NA	NA	343.48	29.16	314.32
MW-1	04/06/2004	<1,300	NA	<13	<13	<13	<25	3,300	NA	NA	NA	3,500	NA	NA	343.48	31.38	312.10
MW-1	07/30/2004	<1,300	NA	<13	<13	<13	<25	1,000	NA	NA	NA	600	NA	NA	343.48	28.51	314.97
MW-1	10/07/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	530	NA	NA	NA	390	NA	NA	343.48	28.55	314.93
MW-1	01/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	320	<10	<10	<10	130	NA	NA	343.48	27.35	316.13
MW-1	04/14/2005	<150	NA	<1.5	<1.5	<1.5	<1.5	720	NA	NA	NA	260	NA	NA	343.48	26.70	316.78
MW-1	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	270	NA	NA	NA	150	NA	NA	343.48	26.33	317.15
<b>MW-1</b>	<b>10/02/2005</b>	<b>&lt;250</b>	<b>NA</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;5.0</b>	<b>39</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;25</b>	<b>NA</b>	<b>NA</b>	<b>343.48</b>	<b>27.12</b>	<b>316.36</b>

MW-2	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	<2.0	<2.0	<2.0	<50	NA	NA	NA	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	NA	NA	342.86	30.30	312.56



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-2	05/09/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	NA	NA	342.86	29.83	313.03
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	07/08/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	NA	NA	342.86	29.86	313.00
MW-2	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88
MW-2	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/03/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	NA	NA	342.86	30.43	312.43
MW-2	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.79	313.07
MW-2	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.00	312.86
MW-2	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.14	312.72
MW-2	01/06/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	NA	NA	342.86	30.05	312.81
MW-2	04/06/2004	<2,000	NA	<20	<20	<20	<40	4,600	NA	NA	NA	5,100	NA	NA	342.86	29.30	313.56
MW-2	07/30/2004	<500	NA	<5.0	<5.0	<5.0	<10	1,000	NA	NA	NA	950	NA	NA	342.86	28.80	314.06
MW-2	10/07/2004	<2,500	NA	<25	<25	<25	<50	6,300	NA	NA	NA	6,500	NA	NA	342.86	28.02	314.84
MW-2	01/26/2005	<1,300	NA	<13	<13	<13	<25	2,100	<50	<50	<50	2,300	NA	NA	342.86	33.12	309.74
MW-2	04/14/2005	<500	NA	<5.0	<5.0	<5.0	<5.0	2,400	NA	NA	NA	1,100	NA	NA	342.86	25.55	317.31
MW-2	07/29/2005	<2,500	NA	<25	<25	<25	<50	3,900	NA	NA	NA	1,500	NA	NA	342.86	25.98	316.88
<b>MW-2</b>	<b>10/02/2005</b>	<b>&lt;2,500</b>	<b>NA</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;25</b>	<b>&lt;50</b>	<b>2,500</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>480</b>	<b>NA</b>	<b>NA</b>	<b>342.86</b>	<b>25.91</b>	<b>316.95</b>

MW-3	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	<20	<20	<20	1,500	NA	NA	NA	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	NA	NA	342.23	30.76	311.47
MW-3	05/09/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	NA	NA	342.23	30.04	312.19
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	07/08/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	NA	NA	342.23	30.11	312.12

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-3	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28
MW-3	10/03/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	NA	NA	342.23	29.97	312.26
MW-3	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.97	312.26
MW-3	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.43	312.80
MW-3	01/06/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	NA	NA	342.23	29.25	312.98
MW-3	04/06/2004	<5,000	NA	<50	<50	<50	<100	4,200	NA	NA	NA	2,100	NA	NA	342.23	28.82	313.41
MW-3	07/30/2004	<2,500	NA	<25	<25	<25	<50	3,000	NA	NA	NA	1,200	NA	NA	342.23	28.73	313.50
MW-3	10/07/2004	<1,000	NA	<10	<10	<10	<20	860	NA	NA	NA	320	NA	NA	342.23	28.72	313.51
MW-3	01/26/2005	<500	NA	<5.0	<5.0	<5.0	<10	820	<20	<20	<20	250	NA	NA	342.23	26.50	315.73
MW-3	04/14/2005	<400	NA	<4.0	<4.0	<4.0	<4.0	2,200	NA	NA	NA	590	NA	NA	342.23	26.15	316.08
MW-3	07/29/2005	<2,500	NA	<25	<25	<25	<50	3,100	NA	NA	NA	1,700	NA	NA	342.23	25.50	316.73
<b>MW-3</b>	<b>10/02/2005</b>	<b>&lt;2,000</b>	<b>NA</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;40</b>	<b>1,700</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>220</b>	<b>NA</b>	<b>NA</b>	<b>342.23</b>	<b>26.85</b>	<b>315.38</b>

MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	NA	NA	32.20	NA
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	32.07	311.37
MW-4	05/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.35	312.09
MW-4	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	07/08/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.42	312.02
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-4	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29
MW-4	10/03/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30
MW-4	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.92	312.52
MW-4	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.82	312.62
MW-4	01/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	30.24	313.20
MW-4	04/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	16	NA	NA	NA	<5.0	NA	NA	343.44	30.10	313.34
MW-4	07/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	25	NA	NA	NA	<5.0	NA	NA	343.44	29.75	313.69
MW-4	10/07/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	35	NA	NA	NA	<5.0	NA	NA	343.44	29.79	313.65
MW-4	01/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	450	<10	<10	<10	43	NA	NA	343.44	27.60	315.84
MW-4	04/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	210	NA	NA	NA	<5.0	NA	NA	343.44	27.40	316.04
MW-4	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	57	NA	NA	NA	11	NA	NA	343.44	26.68	316.76
<b>MW-4</b>	<b>10/02/2005</b>	<b>&lt;50 a</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>44</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>NA</b>	<b>NA</b>	<b>343.44</b>	<b>27.72</b>	<b>315.72</b>

MW-5	02/08/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340.88	26.83	314.05
MW-5	02/10/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	5.1	<2.0	<2.0	<2.0	<5.0	NA	NA	340.88	27.13	313.75
MW-5	04/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.44	314.44
MW-5	07/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.73	314.15
<b>MW-5</b>	<b>10/02/2005</b>	<b>56</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;0.50</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>NA</b>	<b>NA</b>	<b>340.88</b>	<b>26.95</b>	<b>313.93</b>

MW-6	12/01/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.97	27.44	315.53
MW-6	12/07/2005	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.020	342.97	26.15	316.82

MW-7	12/01/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	341.21	27.48	313.73
MW-7	12/07/2005	<50	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.020	341.21	27.29	313.92

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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 or Tertiary butanol, analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B

EDB = 1,2-Dibromoethane or Ethylene dibromide, analyzed by EPA Method 504.1

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:

a = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

Site surveyed November 22, 2002 by Mid Coast Engineers.

MW-5 surveyed January 31, 2005 by Mid Coast Engineers of Watsonville, CA.

Wells MW-6 and MW-7 surveyed December 19, 2005 by Mid Coast Engineers.





# Repair Data Sheet

Client Shell Date 11-1-05  
 Site Address 6750 Santa Rita Road, Pleasanton  
 Job Number 051101AA2 Technician Andrew Adinolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check indicates deficiency										Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed	
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Not Securable by Design (12" diameter or less)	Lid not marked with words "MONITORING WELL"	Other Deficiency						Not Securable by Design (greater than 12" diameter)
MW-5																			X	
Notes: Annular seal missing; casing too low inside casing 1-20																				
MW-4						X													X	
Notes: 1 of 2 bolts stripped, rtap 2 new bolts added																				
Notes:																				
Notes:																				
Notes:																				

# WELLHEAD INSPECTION CHECKLIST

Date 10/20/05 Client Shell

Site Address 6750 Santa Rita Rd., Pleasanton

Job Number 051020-PC1 Technician P. Carney

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	↑							
MW-2	↑							
MW-3	↑							
MW-4	↑						↑	
MW-5							↑	

NOTES: MW-5 - Annular seal deficient  
MW-4 1/2 tabs stripped

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# Repair Data Sheet

Client Shell Date 10-12-03

Site Address 6750 Santa Rita Rd, Pleasanton

Job Number OS102AA1 Technician Andrew Adinolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency										Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Other Deficiency								
MW2													X						X	
Notes: Wellbox ring is loose and broken, replaced wellbox																				
Notes:																				
Notes:																				
Notes:																				
Notes:																				



## SHELL WELL MONITORING DATA SHEET

BTS #: <u>051207-DW2</u>	Site: <u>97464711</u>
Sampler: <u>Dave W</u>	Date: <u>12/07/05</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>32.90</u>	Depth to Water (DTW): <u>26.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>27.5</u>	

Purge Method: Bailer Disposable Bailer Waterra Peristaltic Extraction Pump  
 Positive Air Displacement Other \_\_\_\_\_  
 Electric Submersible

Sampling Method: Bailer Disposable Bailer  
 Extraction Port Dedicated Tubing  
 Other: \_\_\_\_\_

$1.1$ (Gals.) X $3$ = $3.3$ Gals. I Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1456	63.4	6.9	3371	831	1.1	Hazy
1500	65.3	6.9	3425	>1000	2.2	"
1504	66.2	6.8	3400	>1000	3.3	Dark cloudy

Did well dewater? Yes  No  Gallons actually evacuated: 3.5

Sampling Date: 12/07/05 Sampling Time: 1526 Depth to Water: 29.70

Sample I.D.: MW-6 Laboratory: STL Other TA-Morgan Hill

Analyzed for: TPH-G BTEX MTBE TPH-D Other: oxy's, 1,2-DCA, EDB

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**

DLB

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>051207-DW2</u>	Site: <u>97464711</u>
Sampler: <u>Dave W</u>	Date: <u>12/07/05</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>28.94</u>	Depth to Water (DTW): <u>27.29</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>27.62</u>	

Purge Method:  Bailer      Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible      Other \_\_\_\_\_       Dedicated Tubing  
 Other: \_\_\_\_\_

.3 (Gals.) X 3 = .9 Gals.  
 1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1400	63.4	7	3314	> 1000	.3	cloudy
1404	65.3	7.1	3550	> 1000	.6	"
1408	66.1	7.1	3500	> 1000	.9	"
filled 1 of 2 1L Ambers due to leak of water						

Did well dewater? Yes  No  Gallons actually evacuated: 1

Sampling Date: 12/07/05      Sampling Time: 1413      Depth to Water: 27.60

Sample I.D.: MW-7      Laboratory: STL      Other: TA - Morgan Hill

Analyzed for:  TPH-C  BTEX MTBE  TPH-D Other: Oxy's 1, 2-DCA, EDB

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**



# WELL DEVELOPMENT DATA SHEET

Project #: 05	Client: Shell
Developer: WE	Date Developed: 12/1/05
Well I.D. MW-6	Well Diameter: (circle one) <u>3</u> 3 4 6
Total Well Depth: Before 28.94 After 28.96	Depth to Water: Before 27.44 After 28.40
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged well w/ 2" Surge block for 10 minutes prior to purge.	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in 3/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

<u>0.2</u>	X	<u>10</u>	=	<u>2.0</u>	gallons
1 Case Volume		Specified Volumes			

Purging Device:

- Bailer  
 Suction Pump  
 Electric Submersible  
 Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used \_\_\_\_\_

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1445	65.6	7.5	3854	7000	0.2	Hard bottom detected
1446	66.1	7.5	3918		0.4	light brown
1447	66.5	7.5	3892		0.6	getting darker / more silt
1448	66.5	7.5	3812		0.8	(significantly lighter than MW.1)
1450	66.4	7.5	3752		1.0	light brown / less silt
1452	66.5	7.4	3720		1.2	"
1454	66.1	7.5	3742		1.4	Light brown
1456	66.3	7.5	3737		1.6	"
1458	65.7	7.5	3739		1.8	Turbidity near 1000
1501	66.0	7.5	3782	1000	2.0	Light brown

Did Well Dewater? <u>no</u>	If yes, note above.	Gallons Actually Evacuated: <u>20</u>
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## WELL DEVELOPMENT DATA SHEET

Project #: <u>051201-wc-2</u>	Client: <u>Shell</u>
Developer: <u>WC</u>	Date Developed: <u>12/1/05</u>
Well I.D. <u>MW-7</u>	Well Diameter: (circle one) <del>2</del> <u>3</u> 4 6
Total Well Depth: Before <u>28.88</u> After <u>28.90</u>	Depth to Water: Before <u>27.48</u> After <u>28.22</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>Surged well w/ 2" well surge block for 10-min periods</u>	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

<u>0.2</u>	X	<u>10</u>	=	<u>2.0</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:       Bailer       Electric Submersible  
                                   Suction Pump       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
<u>14123</u>	<u>64.0</u>	<u>7.6</u>	<u>3449</u>	<u>&gt;1000</u>	<u>0.2</u>	<u>Hard bottom/silty brown</u>
<u>14124</u>	<u>66.4</u>	<u>7.6</u>	<u>3614</u>		<u>0.4</u>	<u>"</u>
<u>14125</u>	<u>66.5</u>	<u>7.6</u>	<u>3676</u>		<u>0.6</u>	<u>"</u>
<u>14126</u>	<u>67.0</u>	<u>7.6</u>	<u>3699</u>		<u>0.8</u>	<u>less silt/Brown</u>
<u>14127</u>	<u>67.1</u>	<u>7.6</u>	<u>3713</u>		<u>1.0</u>	<u>"</u>
<u>14128</u>	<u>67.0</u>	<u>7.6</u>	<u>3732</u>		<u>1.2</u>	<u>"</u>
<u>14129</u>	<u>67.0</u>	<u>7.7</u>	<u>3721</u>		<u>1.4</u>	<u>thinning out/Brown</u>
<u>14130</u>	<u>66.9</u>	<u>7.7</u>	<u>3725</u>		<u>1.6</u>	<u>"</u>
<u>14131</u>	<u>67.2</u>	<u>7.6</u>	<u>3717</u>		<u>1.8</u>	<u>"</u>
<u>14132</u>	<u>67.0</u>	<u>7.6</u>	<u>3725</u>	<u>&gt;1000</u>	<u>2.0</u>	<u>lighter Brown/still silty</u>

Did Well Dewater? <u>No</u>	If yes, note above.	Gallons Actually Evacuated: <u>20</u>
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## WELL GAUGING DATA

Project # 051020-PC1 Date 10/20/05 Client Shell

Site 6750 Santa Rita Rd., Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <del>POB</del>
MW-1	2					27.12	41.71	TOB
MW-2	2					25.91	41.78	 ↓
MW-3	2					26.55	44.06	
MW-4	2					27.72	44.03	
MW-5	2					26.95	32.05	











## SHELL WELL MONITORING DATA SHEET

BTS #: <u>051020-PC1</u>	Site: <u>97464711</u>
Sampler: <u>PC</u>	Date: <u>10/20/05</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>3</u> 4 6 8 _____
Total Well Depth (TD): <u>32.05</u>	Depth to Water (DTW): <u>26.95</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>27.97</u>	

Purge Method:  Bailer       Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_       Dedicated Tubing

$\underline{0.8} \text{ (Gals.)} \times \underline{3} = \underline{2.4} \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1050	66.5	7.1	3274	71000	.8	
1051	67.0	6.9	3311	71000	1.6	
1053	66.7	6.9	3301	>1000	2.4	

Did well dewater? Yes  No  Gallons actually evacuated: 2.5

Sampling Date: 10/20/05 Sampling Time: 1234 Depth to Water: 27.17

Sample I.D.: MW-5 Laboratory: STL Other: \_\_\_\_\_

Analyzed for: ~~TPH-G BTEX MTBE~~ TPH-D Other: TRA

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

**Delta Env. Consultants San Jose**

December 05, 2005

175 Bernal Road, Suite 200  
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: SJ67-50S-1

Project: 97464711

Site: 6750 Santa Rita Road, Pleasanton

Dear Ms. Arnold:

Attached is our report for your samples received on 11/16/2005 11:29

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/31/2005 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](mailto: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) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-1	11/14/2005 10:50	Water	47
B-4	11/14/2005 10:45	Water	48
B-7	11/15/2005 13:39	Water	49
B-11	11/14/2005 16:50	Water	50

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1	Lab ID: 2005-11-0220 - 47
Sampled: 11/14/2005 10:50	Extracted: 11/23/2005 10:23
Matrix: Water	QC Batch#: 2005/11/23-1A.65
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	11/23/2005 10:23	
Benzene	ND	0.50	ug/L	1.00	11/23/2005 10:23	
Toluene	ND	0.50	ug/L	1.00	11/23/2005 10:23	
Ethylbenzene	ND	0.50	ug/L	1.00	11/23/2005 10:23	
Total xylenes	ND	1.0	ug/L	1.00	11/23/2005 10:23	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/23/2005 10:23	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/23/2005 10:23	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	11/23/2005 10:23	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	11/23/2005 10:23	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	11/23/2005 10:23	
1,2-DCA	ND	0.50	ug/L	1.00	11/23/2005 10:23	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	125.6	73-130	%	1.00	11/23/2005 10:23	
Toluene-d8	84.3	81-114	%	1.00	11/23/2005 10:23	



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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-4	Lab ID: 2005-11-0220 - 48
Sampled: 11/14/2005 10:45	Extracted: 11/23/2005 10:49
Matrix: Water	QC Batch#: 2005/11/23-1A.65
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	11/23/2005 10:49	
Benzene	ND	0.50	ug/L	1.00	11/23/2005 10:49	
Toluene	ND	0.50	ug/L	1.00	11/23/2005 10:49	
Ethylbenzene	ND	0.50	ug/L	1.00	11/23/2005 10:49	
Total xylenes	ND	1.0	ug/L	1.00	11/23/2005 10:49	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/23/2005 10:49	
Methyl tert-butyl ether (MTBE)	0.60	0.50	ug/L	1.00	11/23/2005 10:49	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	11/23/2005 10:49	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	11/23/2005 10:49	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	11/23/2005 10:49	
1,2-DCA	ND	0.50	ug/L	1.00	11/23/2005 10:49	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	126.1	73-130	%	1.00	11/23/2005 10:49	
Toluene-d8	83.8	81-114	%	1.00	11/23/2005 10:49	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7	Lab ID: 2005-11-0220 - 49
Sampled: 11/15/2005 13:39	Extracted: 11/23/2005 11:14
Matrix: Water	QC Batch#: 2005/11/23-1A.65
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	11/23/2005 11:14	
Benzene	ND	0.50	ug/L	1.00	11/23/2005 11:14	
Toluene	ND	0.50	ug/L	1.00	11/23/2005 11:14	
Ethylbenzene	ND	0.50	ug/L	1.00	11/23/2005 11:14	
Total xylenes	ND	1.0	ug/L	1.00	11/23/2005 11:14	
tert-Butyl alcohol (TBA)	12	5.0	ug/L	1.00	11/23/2005 11:14	
Methyl tert-butyl ether (MTBE)	140	0.50	ug/L	1.00	11/23/2005 11:14	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	11/23/2005 11:14	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	11/23/2005 11:14	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	11/23/2005 11:14	
1,2-DCA	ND	0.50	ug/L	1.00	11/23/2005 11:14	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	124.7	73-130	%	1.00	11/23/2005 11:14	
Toluene-d8	81.9	81-114	%	1.00	11/23/2005 11:14	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11	Lab ID: 2005-11-0220 - 50
Sampled: 11/14/2005 16:50	Extracted: 11/23/2005 11:40
Matrix: Water	QC Batch#: 2005/11/23-1A.65
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	11/23/2005 11:40	
Benzene	ND	0.50	ug/L	1.00	11/23/2005 11:40	
Toluene	ND	0.50	ug/L	1.00	11/23/2005 11:40	
Ethylbenzene	ND	0.50	ug/L	1.00	11/23/2005 11:40	
Total xylenes	ND	1.0	ug/L	1.00	11/23/2005 11:40	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/23/2005 11:40	
Methyl tert-butyl ether (MTBE)	4.5	0.50	ug/L	1.00	11/23/2005 11:40	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	11/23/2005 11:40	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	11/23/2005 11:40	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	11/23/2005 11:40	
1,2-DCA	ND	0.50	ug/L	1.00	11/23/2005 11:40	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	126.6	73-130	%	1.00	11/23/2005 11:40	
Toluene-d8	83.2	81-114	%	1.00	11/23/2005 11:40	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2005/11/23-1A.65-059

**Water**

Test(s): 8260B

**QC Batch # 2005/11/23-1A.65**

Date Extracted: 11/23/2005 07:59

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/23/2005 07:59	
Gasoline [Shell]	ND	50	ug/L	11/23/2005 07:59	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	11/23/2005 07:59	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/23/2005 07:59	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	11/23/2005 07:59	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	11/23/2005 07:59	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	11/23/2005 07:59	
1,2-DCA	ND	0.5	ug/L	11/23/2005 07:59	
Benzene	ND	0.5	ug/L	11/23/2005 07:59	
Toluene	ND	0.5	ug/L	11/23/2005 07:59	
Ethylbenzene	ND	0.5	ug/L	11/23/2005 07:59	
Total xylenes	ND	1.0	ug/L	11/23/2005 07:59	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	89.2	73-130	%	11/23/2005 07:59	
Toluene-d8	87.8	81-114	%	11/23/2005 07:59	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2005/11/23-1A.65</b>				
LCS	2005/11/23-1A.65-007		Extracted: 11/23/2005			Analyzed: 11/23/2005 07:07				
LCSD	2005/11/23-1A.65-033		Extracted: 11/23/2005			Analyzed: 11/23/2005 07:33				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.2	20.2	25	80.8	80.8	0.0	65-165	20		
Benzene	20.7	20.7	25	82.8	82.8	0.0	69-129	20		
Toluene	23.0	22.3	25	92.0	89.2	3.1	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	388	396	500	77.6	79.2		73-130			
Toluene-d8	426	431	500	85.2	86.2		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) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/11/23-1A.65**

MS/MSD

Lab ID: 2005-11-0242 - 016

MS: 2005/11/23-1A.65-031

Extracted: 11/23/2005

Analyzed: 11/23/2005 12:31

Dilution: 1.00

MSD: 2005/11/23-1A.65-057

Extracted: 11/23/2005

Analyzed: 11/23/2005 12:57

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	129	127	104	25	100.0	92.0	8.3	65-165	20		
Benzene	19.6	22.0	ND	25	78.4	88.0	11.5	69-129	20		
Toluene	22.1	23.6	ND	25	88.4	94.4	6.6	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	446	448		500	89.2	89.6		73-130			
Toluene-d8	438	432		500	87.6	86.4		81-114			

**Diesel (C9-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-1	11/14/2005 10:50	Water	47
B-4	11/14/2005 10:45	Water	48
B-7	11/15/2005 13:39	Water	49
B-11	11/14/2005 16:50	Water	50

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>B-1</b>	Lab ID: 2005-11-0220 - 47
Sampled: 11/14/2005 10:50	Extracted: 11/25/2005 09:26
Matrix: Water	QC Batch#: 2005/11/25-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/29/2005 14:28	
<b>Surrogate(s)</b> o-Terphenyl	113.8	64-127	%	1.00	11/29/2005 14:28	



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>B-4</b>	Lab ID: 2005-11-0220 - 48
Sampled: 11/14/2005 10:45	Extracted: 11/25/2005 09:26
Matrix: Water	QC Batch#: 2005/11/25-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/29/2005 14:59	
<b>Surrogate(s)</b> o-Terphenyl	106.8	64-127	%	1.00	11/29/2005 14:59	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>B-7</b>	Lab ID: 2005-11-0220 - 49
Sampled: 11/15/2005 13:39	Extracted: 11/25/2005 09:26
Matrix: Water	QC Batch#: 2005/11/25-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/29/2005 15:26	
<b>Surrogate(s)</b> o-Terphenyl	112.4	64-127	%	1.00	11/29/2005 15:26	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>B-11</b>	Lab ID: 2005-11-0220 - 50
Sampled: 11/14/2005 16:50	Extracted: 11/25/2005 09:26
Matrix: Water	QC Batch#: 2005/11/25-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/29/2005 15:53	
<b>Surrogate(s)</b> o-Terphenyl	114.2	64-127	%	1.00	11/29/2005 15:53	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report					
Prep(s): 3511		Test(s): 8015M			
<b>Method Blank</b>		<b>Water</b>		<b>QC Batch # 2005/11/25-01.10</b>	
MB: 2005/11/25-01.10-001		Date Extracted: 11/25/2005 09:26			
Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	11/28/2005 15:51	
<b>Surrogates(s)</b> o-Terphenyl	105.9	64-127	%	11/28/2005 15:51	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3511						Test(s): 8015M				
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2005/11/25-01.10</b>				
LCS	2005/11/25-01.10-002		Extracted: 11/25/2005			Analyzed: 11/28/2005 14:51				
LCSD	2005/11/25-01.10-003		Extracted: 11/25/2005			Analyzed: 11/28/2005 15:21				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	517	455	714	72.4	63.7	12.8	60-150	25		
<b>Surrogates(s)</b> o-Terphenyl	1.25	1.21	1.25	100.0	97.0		64-127	0		

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-1@5`	11/11/2005 10:50	Soil	1
B-1@10`	11/14/2005 08:56	Soil	2
B-1@15`	11/14/2005 09:01	Soil	3
B-1@20`	11/14/2005 09:08	Soil	4
B-1@25`	11/14/2005 09:20	Soil	5
B-1@30`	11/14/2005 09:29	Soil	6
B-1@35`	11/14/2005 09:39	Soil	7
B-1@40`	11/14/2005 09:47	Soil	8
B-1@45`	11/14/2005 10:12	Soil	9
B-3@5`	11/11/2005 10:06	Soil	10
B-3@10`	11/15/2005 13:52	Soil	11
B-3@15`	11/15/2005 13:57	Soil	12
B-3@20`	11/15/2005 14:11	Soil	13
B-3@25`	11/15/2005 14:15	Soil	14
B-4@5`	11/11/2005 08:34	Soil	15
B-4@12`	11/14/2005 12:19	Soil	16
B-4@15`	11/14/2005 12:33	Soil	17
B-4@20`	11/14/2005 12:26	Soil	18
B-4@25`	11/14/2005 12:38	Soil	19
B-4@35`	11/14/2005 12:55	Soil	20
B-4@40`	11/14/2005 13:00	Soil	21
B-4@45`	11/15/2005 13:09	Soil	22
B-6@5`	11/11/2005 09:26	Soil	23
B-6@10`	11/15/2005 11:35	Soil	24
B-6@15`	11/15/2005 11:41	Soil	25
B-7@5`	11/11/2005 09:38	Soil	26
B-7@10`	11/15/2005 09:10	Soil	27
B-7@15`	11/15/2005 09:15	Soil	28
B-7@20`	11/15/2005 09:22	Soil	29
B-7@30`	11/15/2005 09:42	Soil	30
B-7@34`	11/15/2005 09:52	Soil	31
B-7@40`	11/15/2005 09:57	Soil	32

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-7@45`	11/15/2005 10:09	Soil	33
B-8@5`	11/11/2005 11:42	Soil	34
B-8@10`	11/15/2005 14:49	Soil	35
B-8@15`	11/15/2005 14:51	Soil	36
B-11@5`	11/15/2005 09:03	Soil	37
B-11@10`	11/14/2005 15:15	Soil	38
B-11@15`	11/14/2005 15:19	Soil	39
B-11@20`	11/14/2005 15:27	Soil	40
B-11@25`	11/14/2005 15:35	Soil	41
B-11@30`	11/14/2005 15:43	Soil	42
B-11@35`	11/14/2005 15:50	Soil	43
B-11@40`	11/14/2005 16:00	Soil	44
B-11@45`	11/14/2005 16:12	Soil	45
B-7@24.5`	11/15/2005 09:35	Soil	46

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-1@5`</b>	Lab ID:	2005-11-0220 - 1
Sampled:	11/11/2005 10:50	Extracted:	11/22/2005 13:26
Matrix:	Soil	QC Batch#:	2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 18:43	
<b>Surrogate(s)</b> o-Terphenyl	53.3	60-130	%	1.00	11/23/2005 18:43	S8



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-1@10`</b>	Lab ID:	2005-11-0220 - 2
Sampled:	11/14/2005 08:56	Extracted:	11/22/2005 13:26
Matrix:	Soil	QC Batch#:	2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 19:10	
<b>Surrogate(s)</b> o-Terphenyl	81.0	60-130	%	1.00	11/23/2005 19:10	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-1@15`</b>	Lab ID:	2005-11-0220 - 3
Sampled:	11/14/2005 09:01	Extracted:	11/22/2005 13:26
Matrix:	Soil	QC Batch#:	2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 19:37	
<b>Surrogate(s)</b> o-Terphenyl	85.6	60-130	%	1.00	11/23/2005 19:37	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-1@20`</b>	Lab ID: 2005-11-0220 - 4
Sampled: 11/14/2005 09:08	Extracted: 11/22/2005 13:26
Matrix: Soil	QC Batch#: 2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 20:04	
<b>Surrogate(s)</b> o-Terphenyl	83.0	60-130	%	1.00	11/23/2005 20:04	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-1@25`</b>	Lab ID: 2005-11-0220 - 5
Sampled: 11/14/2005 09:20	Extracted: 11/22/2005 13:26
Matrix: Soil	QC Batch#: 2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 20:31	
<b>Surrogate(s)</b> o-Terphenyl	81.1	60-130	%	1.00	11/23/2005 20:31	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-1@30`</b>	Lab ID:	2005-11-0220 - 6
Sampled:	11/14/2005 09:29	Extracted:	11/22/2005 13:26
Matrix:	Soil	QC Batch#:	2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 22:47	
<b>Surrogate(s)</b> o-Terphenyl	85.5	60-130	%	1.00	11/23/2005 22:47	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-1@35`</b>	Lab ID: 2005-11-0220 - 7
Sampled: 11/14/2005 09:39	Extracted: 11/22/2005 13:26
Matrix: Soil	QC Batch#: 2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 23:14	
<b>Surrogate(s)</b> o-Terphenyl	83.1	60-130	%	1.00	11/23/2005 23:14	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-1@40`</b>	Lab ID:	2005-11-0220 - 8
Sampled:	11/14/2005 09:47	Extracted:	11/22/2005 13:26
Matrix:	Soil	QC Batch#:	2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 05:31	
<b>Surrogate(s)</b> o-Terphenyl	85.0	60-130	%	1.00	11/24/2005 05:31	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-1@45`</b>	Lab ID:	2005-11-0220 - 9
Sampled:	11/14/2005 10:12	Extracted:	11/22/2005 13:26
Matrix:	Soil	QC Batch#:	2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 23:42	
<b>Surrogate(s)</b> o-Terphenyl	79.2	60-130	%	1.00	11/23/2005 23:42	



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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-3@5`</b>	Lab ID: 2005-11-0220 - 10
Sampled: 11/11/2005 10:06	Extracted: 11/22/2005 13:26
Matrix: Soil	QC Batch#: 2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 00:09	
<b>Surrogate(s)</b> o-Terphenyl	74.9	60-130	%	1.00	11/24/2005 00:09	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-3@10`</b>	Lab ID: 2005-11-0220 - 11
Sampled: 11/15/2005 13:52	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	7.3	1.0	mg/Kg	1.00	11/29/2005 11:16	ndp
<b>Surrogate(s)</b> o-Terphenyl	83.2	60-130	%	1.00	11/29/2005 11:16	

**Diesel (C9-C24)**

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Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-3@15`</b>	Lab ID: 2005-11-0220 - 12
Sampled: 11/15/2005 13:57	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 19:45	
<b>Surrogate(s)</b>						
o-Terphenyl	79.3	60-130	%	1.00	11/30/2005 19:45	

**Diesel (C9-C24)**

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Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-3@20`</b>	Lab ID: 2005-11-0220 - 13
Sampled: 11/15/2005 14:11	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 20:12	
<b>Surrogate(s)</b> o-Terphenyl	76.3	60-130	%	1.00	11/30/2005 20:12	

**Diesel (C9-C24)**

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Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-3@25`</b>	Lab ID: 2005-11-0220 - 14
Sampled: 11/15/2005 14:15	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	6.1	1.0	mg/Kg	1.00	11/29/2005 12:08	ndp
<b>Surrogate(s)</b> o-Terphenyl	77.7	60-130	%	1.00	11/29/2005 12:08	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-4@5`</b>	Lab ID:	2005-11-0220 - 15
Sampled:	11/11/2005 08:34	Extracted:	11/22/2005 13:26
Matrix:	Soil	QC Batch#:	2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 00:36	
<b>Surrogate(s)</b> o-Terphenyl	80.3	60-130	%	1.00	11/24/2005 00:36	

**Diesel (C9-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-4@12`</b>	Lab ID: 2005-11-0220 - 16
Sampled: 11/14/2005 12:19	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.9	1.0	mg/Kg	1.00	11/23/2005 19:28	ndp
<b>Surrogate(s)</b> o-Terphenyl	75.5	60-130	%	1.00	11/23/2005 19:28	

**Diesel (C9-C24)**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-4@15`</b>	Lab ID:	2005-11-0220 - 17
Sampled:	11/14/2005 12:33	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 19:28	
<b>Surrogate(s)</b>						
o-Terphenyl	83.9	60-130	%	1.00	11/23/2005 19:28	



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-4@20`</b>	Lab ID:	2005-11-0220 - 18
Sampled:	11/14/2005 12:26	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 22:58	
<b>Surrogate(s)</b> o-Terphenyl	70.5	60-130	%	1.00	11/23/2005 22:58	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-4@25`</b>	Lab ID: 2005-11-0220 - 19
Sampled: 11/14/2005 12:38	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 23:24	
<b>Surrogate(s)</b> o-Terphenyl	72.5	60-130	%	1.00	11/23/2005 23:24	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-4@35`</b>	Lab ID:	2005-11-0220 - 20
Sampled:	11/14/2005 12:55	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 23:50	
<b>Surrogate(s)</b> o-Terphenyl	64.3	60-130	%	1.00	11/23/2005 23:50	

**Diesel (C9-C24)**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-4@40`</b>	Lab ID:	2005-11-0220 - 21
Sampled:	11/14/2005 13:00	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.9	1.0	mg/Kg	1.00	11/24/2005 00:16	ndp
<b>Surrogate(s)</b> o-Terphenyl	80.4	60-130	%	1.00	11/24/2005 00:16	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-4@45`</b>	Lab ID:	2005-11-0220 - 22
Sampled:	11/15/2005 13:09	Extracted:	11/28/2005 15:37
Matrix:	Soil	QC Batch#:	2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/29/2005 13:15	
<b>Surrogate(s)</b> o-Terphenyl	85.0	60-130	%	1.00	11/29/2005 13:15	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-6@5`</b>	Lab ID: 2005-11-0220 - 23
Sampled: 11/11/2005 09:26	Extracted: 11/22/2005 13:26
Matrix: Soil	QC Batch#: 2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 01:03	
<b>Surrogate(s)</b> o-Terphenyl	70.2	60-130	%	1.00	11/24/2005 01:03	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-6@10`</b>	Lab ID: 2005-11-0220 - 24
Sampled: 11/15/2005 11:35	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/29/2005 13:43	
<b>Surrogate(s)</b> o-Terphenyl	80.5	60-130	%	1.00	11/29/2005 13:43	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-6@15`</b>	Lab ID: 2005-11-0220 - 25
Sampled: 11/15/2005 11:41	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/29/2005 14:10	
<b>Surrogate(s)</b> o-Terphenyl	81.8	60-130	%	1.00	11/29/2005 14:10	



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-7@5`</b>	Lab ID:	2005-11-0220 - 26
Sampled:	11/11/2005 09:38	Extracted:	11/22/2005 13:26
Matrix:	Soil	QC Batch#:	2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 01:30	
<b>Surrogate(s)</b> o-Terphenyl	67.3	60-130	%	1.00	11/24/2005 01:30	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-7@10`</b>	Lab ID: 2005-11-0220 - 27
Sampled: 11/15/2005 09:10	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/29/2005 14:37	
<b>Surrogate(s)</b> o-Terphenyl	75.9	60-130	%	1.00	11/29/2005 14:37	

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-7@15`</b>	Lab ID:	2005-11-0220 - 28
Sampled:	11/15/2005 09:15	Extracted:	11/28/2005 15:37
Matrix:	Soil	QC Batch#:	2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 15:12	
<b>Surrogate(s)</b> o-Terphenyl	78.0	60-130	%	1.00	11/30/2005 15:12	

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-7@20`</b>	Lab ID:	2005-11-0220 - 29
Sampled:	11/15/2005 09:22	Extracted:	11/28/2005 15:37
Matrix:	Soil	QC Batch#:	2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 17:29	
<b>Surrogate(s)</b> o-Terphenyl	80.3	60-130	%	1.00	11/30/2005 17:29	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-7@30`</b>	Lab ID:	2005-11-0220 - 30
Sampled:	11/15/2005 09:42	Extracted:	11/28/2005 15:37
Matrix:	Soil	QC Batch#:	2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 17:56	
<b>Surrogate(s)</b> o-Terphenyl	82.1	60-130	%	1.00	11/30/2005 17:56	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-7@34`</b>	Lab ID:	2005-11-0220 - 31
Sampled:	11/15/2005 09:52	Extracted:	11/28/2005 15:37
Matrix:	Soil	QC Batch#:	2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/29/2005 12:40	
<b>Surrogate(s)</b> o-Terphenyl	65.5	60-130	%	1.00	11/29/2005 12:40	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-7@40`</b>	Lab ID:	2005-11-0220 - 32
Sampled:	11/15/2005 09:57	Extracted:	11/28/2005 15:37
Matrix:	Soil	QC Batch#:	2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 18:24	
<b>Surrogate(s)</b> o-Terphenyl	77.2	60-130	%	1.00	11/30/2005 18:24	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-7@45`</b>	Lab ID:	2005-11-0220 - 33
Sampled:	11/15/2005 10:09	Extracted:	11/28/2005 15:37
Matrix:	Soil	QC Batch#:	2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 18:51	
<b>Surrogate(s)</b> o-Terphenyl	80.7	60-130	%	1.00	11/30/2005 18:51	



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-8@5`</b>	Lab ID: 2005-11-0220 - 34
Sampled: 11/11/2005 11:42	Extracted: 11/22/2005 13:26
Matrix: Soil	QC Batch#: 2005/11/22-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 04:40	
<b>Surrogate(s)</b> o-Terphenyl	75.3	60-130	%	1.00	11/24/2005 04:40	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-8@10`</b>	Lab ID: 2005-11-0220 - 35
Sampled: 11/15/2005 14:49	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 19:18	
<b>Surrogate(s)</b> o-Terphenyl	75.9	60-130	%	1.00	11/30/2005 19:18	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-8@15`</b>	Lab ID: 2005-11-0220 - 36
Sampled: 11/15/2005 14:51	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 20:40	
<b>Surrogate(s)</b> o-Terphenyl	79.7	60-130	%	1.00	11/30/2005 20:40	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-11@5`</b>	Lab ID: 2005-11-0220 - 37
Sampled: 11/15/2005 09:03	Extracted: 11/28/2005 15:37
Matrix: Soil	QC Batch#: 2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.9	1.0	mg/Kg	1.00	11/29/2005 13:01	ndp
<b>Surrogate(s)</b> o-Terphenyl	77.4	60-130	%	1.00	11/29/2005 13:01	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-11@10`</b>	Lab ID: 2005-11-0220 - 38
Sampled: 11/14/2005 15:15	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 00:43	
<b>Surrogate(s)</b> o-Terphenyl	76.4	60-130	%	1.00	11/24/2005 00:43	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-11@15`</b>	Lab ID:	2005-11-0220 - 39
Sampled:	11/14/2005 15:19	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.6	1.0	mg/Kg	1.00	11/24/2005 04:39	ldr
<b>Surrogate(s)</b> o-Terphenyl	78.8	60-130	%	1.00	11/24/2005 04:39	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-11@20`</b>	Lab ID:	2005-11-0220 - 40
Sampled:	11/14/2005 15:27	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	4.3	1.0	mg/Kg	1.00	11/24/2005 01:09	ldr
<b>Surrogate(s)</b> o-Terphenyl	88.3	60-130	%	1.00	11/24/2005 01:09	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-11@25`</b>	Lab ID: 2005-11-0220 - 41
Sampled: 11/14/2005 15:35	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.1	1.0	mg/Kg	1.00	11/24/2005 03:46	ldr
<b>Surrogate(s)</b> o-Terphenyl	92.2	60-130	%	1.00	11/24/2005 03:46	



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-11@30`</b>	Lab ID:	2005-11-0220 - 42
Sampled:	11/14/2005 15:43	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 02:01	
<b>Surrogate(s)</b> o-Terphenyl	78.6	60-130	%	1.00	11/24/2005 02:01	

**Diesel (C9-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-11@35`</b>	Lab ID: 2005-11-0220 - 43
Sampled: 11/14/2005 15:50	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 06:23	
<b>Surrogate(s)</b> o-Terphenyl	71.2	60-130	%	1.00	11/24/2005 06:23	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-11@40`</b>	Lab ID: 2005-11-0220 - 44
Sampled: 11/14/2005 16:00	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.0	1.0	mg/Kg	1.00	11/24/2005 06:49	ndp
<b>Surrogate(s)</b> o-Terphenyl	83.2	60-130	%	1.00	11/24/2005 06:49	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-11@45`</b>	Lab ID:	2005-11-0220 - 45
Sampled:	11/14/2005 16:12	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/24/2005 07:16	
<b>Surrogate(s)</b> o-Terphenyl	69.4	60-130	%	1.00	11/24/2005 07:16	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-7@24.5`</b>	Lab ID:	2005-11-0220 - 46
Sampled:	11/15/2005 09:35	Extracted:	11/28/2005 15:37
Matrix:	Soil	QC Batch#:	2005/11/28-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/30/2005 17:02	
<b>Surrogate(s)</b> o-Terphenyl	82.7	60-130	%	1.00	11/30/2005 17:02	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report					
Prep(s): 3550/8015M		Test(s): 8015M			
<b>Method Blank dro, diesel</b>		<b>Soil</b>		<b>QC Batch # 2005/11/22-02.10</b>	
MB: 2005/11/22-02.10-001		Date Extracted: 11/22/2005 13:26			
Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/23/2005 04:37	
<b>Surrogates(s)</b> o-Terphenyl	70.8	60-130	%	11/23/2005 04:37	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

**Method Blank diesel**

**Soil**

**QC Batch # 2005/11/23-01.10**

MB: 2005/11/23-01.10-001

Date Extracted: 11/23/2005 10:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/23/2005 16:10	
<b>Surrogates(s)</b> o-Terphenyl	73.9	60-130	%	11/23/2005 16:10	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 3550/8015M  
**Method Blank DIESEL**

**Soil**

Test(s): 8015M  
**QC Batch # 2005/11/28-01.10**

MB: 2005/11/28-01.10-001

Date Extracted: 11/28/2005 15:37

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/29/2005 11:18	
<b>Surrogates(s)</b> o-Terphenyl	68.8	60-130	%	11/29/2005 11:18	



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3550/8015M						Test(s): 8015M				
<b>Laboratory Control Spike dro, diesel</b>				<b>Soil</b>			<b>QC Batch # 2005/11/22-02.10</b>			
LCS	2005/11/22-02.10-002			Extracted: 11/22/2005			Analyzed: 11/23/2005 05:03			
LCSD	2005/11/22-02.10-003			Extracted: 11/22/2005			Analyzed: 11/23/2005 05:29			
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	38.3	32.9	41.4	92.5	79.9	14.6	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	19.2	17.7	20.0	96.1	88.7		60-130	0		

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 3550/8015M		Test(s): 8015M	
<b>Laboratory Control Spike diesel</b>		<b>Soil</b>	<b>QC Batch # 2005/11/23-01.10</b>
LCS	2005/11/23-01.10-002	Extracted: 11/23/2005	Analyzed: 11/23/2005 16:36
LCSD	2005/11/23-01.10-003	Extracted: 11/23/2005	Analyzed: 11/23/2005 17:02

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	32.1	34.0	41.5	77.3	82.3	6.3	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	17.4	17.0	20.0	87.2	84.9		60-130	0		

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 3550/8015M		Test(s): 8015M	
<b>Laboratory Control Spike DIESEL</b>		<b>Soil</b>	<b>QC Batch # 2005/11/28-01.10</b>
LCS	2005/11/28-01.10-002	Extracted: 11/28/2005	Analyzed: 11/29/2005 11:46
LCSD	2005/11/28-01.10-003	Extracted: 11/28/2005	Analyzed: 11/29/2005 12:13

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	34.2	28.9	41.3	82.8	69.5	17.5	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	15.3	14.6	20.0	76.6	73.1		60-130	0		

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 3550/8015M	Test(s): 8015M		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/23-01.10</b>	
B-4@12` >> MS		Lab ID:	2005-11-0220 - 016
MS: 2005/11/23-01.10-004	Extracted: 11/23/2005	Analyzed:	11/23/2005 19:54
		Dilution:	1.00
MSD: 2005/11/23-01.10-005	Extracted: 11/23/2005	Analyzed:	11/23/2005 20:20
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	34.7	43.9	2.94	41.5	76.5	98.9	25.5	60-130	25		R1
<b>Surrogate(s)</b> o-Terphenyl	18.4	18.6		20.0	91.9	92.9		60-130	0		

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 3550/8015M	Test(s): 8015M		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/28-01.10</b>	
B-7@34` >> MS		Lab ID:	2005-11-0220 - 031
MS: 2005/11/28-01.10-004	Extracted: 11/28/2005	Analyzed:	11/29/2005 13:15
		Dilution:	1.00
MSD: 2005/11/28-01.10-005	Extracted: 11/28/2005	Analyzed:	11/29/2005 13:43
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	35.3	32.1	ND	41.1	85.9	77.7	10.0	60-130	25		
<b>Surrogate(s)</b> o-Terphenyl	15.2	14.8		20.0	75.9	74.2		60-130	0		

## Diesel (C9-C24)

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

### Legend and Notes

#### Report Comment

Sample 1 : Surrogate recovery was below control limits. It was not re-extracted because EPA recommended holding time had elapsed.

#### Result Flag

ldr

Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

R1

Analyte RPD was out of QC limits.

S8

Surrogate recoveries lower than acceptance limits.

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-1@5`	11/11/2005 10:50	Soil	1
B-1@10`	11/14/2005 08:56	Soil	2
B-1@15`	11/14/2005 09:01	Soil	3
B-1@20`	11/14/2005 09:08	Soil	4
B-1@25`	11/14/2005 09:20	Soil	5
B-1@30`	11/14/2005 09:29	Soil	6
B-1@35`	11/14/2005 09:39	Soil	7
B-1@40`	11/14/2005 09:47	Soil	8
B-1@45`	11/14/2005 10:12	Soil	9
B-3@5`	11/11/2005 10:06	Soil	10
B-3@10`	11/15/2005 13:52	Soil	11
B-3@15`	11/15/2005 13:57	Soil	12
B-3@20`	11/15/2005 14:11	Soil	13
B-3@25`	11/15/2005 14:15	Soil	14
B-4@5`	11/11/2005 08:34	Soil	15
B-4@12`	11/14/2005 12:19	Soil	16
B-4@15`	11/14/2005 12:33	Soil	17
B-4@20`	11/14/2005 12:26	Soil	18
B-4@25`	11/14/2005 12:38	Soil	19
B-4@35`	11/14/2005 12:55	Soil	20
B-4@40`	11/14/2005 13:00	Soil	21
B-4@45`	11/15/2005 13:09	Soil	22
B-6@5`	11/11/2005 09:26	Soil	23
B-6@10`	11/15/2005 11:35	Soil	24
B-6@15`	11/15/2005 11:41	Soil	25
B-7@5`	11/11/2005 09:38	Soil	26
B-7@10`	11/15/2005 09:10	Soil	27
B-7@15`	11/15/2005 09:15	Soil	28
B-7@20`	11/15/2005 09:22	Soil	29
B-7@30`	11/15/2005 09:42	Soil	30
B-7@34`	11/15/2005 09:52	Soil	31
B-7@40`	11/15/2005 09:57	Soil	32

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

12/05/2005 15:58

**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) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-7@45`	11/15/2005 10:09	Soil	33
B-8@5`	11/11/2005 11:42	Soil	34
B-8@10`	11/15/2005 14:49	Soil	35
B-8@15`	11/15/2005 14:51	Soil	36
B-11@5`	11/15/2005 09:03	Soil	37
B-11@10`	11/14/2005 15:15	Soil	38
B-11@15`	11/14/2005 15:19	Soil	39
B-11@20`	11/14/2005 15:27	Soil	40
B-11@25`	11/14/2005 15:35	Soil	41
B-11@30`	11/14/2005 15:43	Soil	42
B-11@35`	11/14/2005 15:50	Soil	43
B-11@40`	11/14/2005 16:00	Soil	44
B-11@45`	11/14/2005 16:12	Soil	45
B-7@24.5`	11/15/2005 09:35	Soil	46



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

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Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@5	Lab ID: 2005-11-0220 - 1
Sampled: 11/11/2005 10:50	Extracted: 11/21/2005 09:21
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 09:21	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 09:21	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 09:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 09:21	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	97.3	76-124	%	1.00	11/21/2005 09:21	
Toluene-d8	94.5	75-116	%	1.00	11/21/2005 09:21	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@10`	Lab ID: 2005-11-0220 - 2
Sampled: 11/14/2005 08:56	Extracted: 11/21/2005 10:24
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 10:24	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 10:24	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 10:24	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 10:24	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	112.8	76-124	%	1.00	11/21/2005 10:24	
Toluene-d8	85.3	75-116	%	1.00	11/21/2005 10:24	

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

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-1@15'</b>	Lab ID:	2005-11-0220 - 3
Sampled:	11/14/2005 09:01	Extracted:	11/21/2005 10:45
Matrix:	Soil	QC Batch#:	2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 10:45	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 10:45	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 10:45	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 10:45	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.0	76-124	%	1.00	11/21/2005 10:45	
Toluene-d8	90.8	75-116	%	1.00	11/21/2005 10:45	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-1@20`	Lab ID:	2005-11-0220 - 4
Sampled:	11/14/2005 09:08	Extracted:	11/21/2005 11:07
Matrix:	Soil	QC Batch#:	2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 11:07	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 11:07	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 11:07	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 11:07	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	96.7	76-124	%	1.00	11/21/2005 11:07	
Toluene-d8	89.9	75-116	%	1.00	11/21/2005 11:07	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@25`	Lab ID: 2005-11-0220 - 5
Sampled: 11/14/2005 09:20	Extracted: 11/21/2005 11:28
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 11:28	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 11:28	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 11:28	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 11:28	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	98.9	76-124	%	1.00	11/21/2005 11:28	
Toluene-d8	90.5	75-116	%	1.00	11/21/2005 11:28	

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

Delta Env. Consultants San Jose  
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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@30`	Lab ID: 2005-11-0220 - 6
Sampled: 11/14/2005 09:29	Extracted: 11/21/2005 11:49
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 11:49	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 11:49	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 11:49	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 11:49	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	98.6	76-124	%	1.00	11/21/2005 11:49	
Toluene-d8	89.8	75-116	%	1.00	11/21/2005 11:49	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@35`	Lab ID: 2005-11-0220 - 7
Sampled: 11/14/2005 09:39	Extracted: 11/21/2005 12:11
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 12:11	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 12:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 12:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 12:11	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	95.2	76-124	%	1.00	11/21/2005 12:11	
Toluene-d8	91.1	75-116	%	1.00	11/21/2005 12:11	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@40`	Lab ID: 2005-11-0220 - 8
Sampled: 11/14/2005 09:47	Extracted: 11/21/2005 12:32
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 12:32	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 12:32	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 12:32	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 12:32	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.5	76-124	%	1.00	11/21/2005 12:32	
Toluene-d8	90.7	75-116	%	1.00	11/21/2005 12:32	



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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-1@45`	Lab ID: 2005-11-0220 - 9
Sampled: 11/14/2005 10:12	Extracted: 11/21/2005 12:54
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 12:54	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:54	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 12:54	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 12:54	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 12:54	
Methyl tert-butyl ether (MTBE)	0.0065	0.0050	mg/Kg	1.00	11/21/2005 12:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 12:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 12:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 12:54	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 12:54	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 12:54	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	94.1	76-124	%	1.00	11/21/2005 12:54	
Toluene-d8	88.0	75-116	%	1.00	11/21/2005 12:54	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@5`	Lab ID: 2005-11-0220 - 10
Sampled: 11/11/2005 10:06	Extracted: 11/21/2005 13:16
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 13:16	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 13:16	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 13:16	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 13:16	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.4	76-124	%	1.00	11/21/2005 13:16	
Toluene-d8	89.3	75-116	%	1.00	11/21/2005 13:16	

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

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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-3@10`	Lab ID:	2005-11-0220 - 11
Sampled:	11/15/2005 13:52	Extracted:	11/21/2005 13:37
Matrix:	Soil	QC Batch#:	2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 13:37	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 13:37	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 13:37	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 13:37	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	97.8	76-124	%	1.00	11/21/2005 13:37	
Toluene-d8	87.7	75-116	%	1.00	11/21/2005 13:37	

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

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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@15`	Lab ID: 2005-11-0220 - 12
Sampled: 11/15/2005 13:57	Extracted: 11/21/2005 13:59
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 13:59	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 13:59	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 13:59	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 13:59	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.1	76-124	%	1.00	11/21/2005 13:59	
Toluene-d8	89.2	75-116	%	1.00	11/21/2005 13:59	

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

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-3@20`	Lab ID: 2005-11-0220 - 13
Sampled: 11/15/2005 14:11	Extracted: 11/21/2005 14:21
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 14:21	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 14:21	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 14:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 14:21	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.2	76-124	%	1.00	11/21/2005 14:21	
Toluene-d8	90.7	75-116	%	1.00	11/21/2005 14:21	

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

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-3@25`</b>	Lab ID:	2005-11-0220 - 14
Sampled:	11/15/2005 14:15	Extracted:	11/21/2005 14:43
Matrix:	Soil	QC Batch#:	2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 14:43	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 14:43	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 14:43	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 14:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	117.2	76-124	%	1.00	11/21/2005 14:43	
Toluene-d8	78.1	75-116	%	1.00	11/21/2005 14:43	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-4@5	Lab ID: 2005-11-0220 - 15
Sampled: 11/11/2005 08:34	Extracted: 11/21/2005 15:05
Matrix: Soil	QC Batch#: 2005/11/21-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/21/2005 15:05	
Benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
Toluene	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/21/2005 15:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/21/2005 15:05	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
EDB	ND	0.0050	mg/Kg	1.00	11/21/2005 15:05	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.4	76-124	%	1.00	11/21/2005 15:05	
Toluene-d8	87.8	75-116	%	1.00	11/21/2005 15:05	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-4@12`	Lab ID:	2005-11-0220 - 16
Sampled:	11/14/2005 12:19	Extracted:	11/28/2005 23:23
Matrix:	Soil	QC Batch#:	2005/11/28-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/28/2005 23:23	
Benzene	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
Toluene	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/28/2005 23:23	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/28/2005 23:23	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
EDB	ND	0.0050	mg/Kg	1.00	11/28/2005 23:23	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	94.0	76-124	%	1.00	11/28/2005 23:23	
Toluene-d8	104.1	75-116	%	1.00	11/28/2005 23:23	



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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-4@15`	Lab ID: 2005-11-0220 - 17
Sampled: 11/14/2005 12:33	Extracted: 11/23/2005 00:13
Matrix: Soil	QC Batch#: 2005/11/22-4A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/23/2005 00:13	
Benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
Toluene	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/23/2005 00:13	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/23/2005 00:13	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
EDB	ND	0.0050	mg/Kg	1.00	11/23/2005 00:13	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	91.9	76-124	%	1.00	11/23/2005 00:13	
Toluene-d8	87.1	75-116	%	1.00	11/23/2005 00:13	

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

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-4@20`	Lab ID:	2005-11-0220 - 18
Sampled:	11/14/2005 12:26	Extracted:	11/23/2005 00:35
Matrix:	Soil	QC Batch#:	2005/11/22-4A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/23/2005 00:35	
Benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
Toluene	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/23/2005 00:35	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/23/2005 00:35	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
EDB	ND	0.0050	mg/Kg	1.00	11/23/2005 00:35	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.3	76-124	%	1.00	11/23/2005 00:35	
Toluene-d8	87.1	75-116	%	1.00	11/23/2005 00:35	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-4@25`</b>	Lab ID:	2005-11-0220 - 19
Sampled:	11/14/2005 12:38	Extracted:	11/28/2005 23:49
Matrix:	Soil	QC Batch#:	2005/11/28-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/28/2005 23:49	
Benzene	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
Toluene	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/28/2005 23:49	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/28/2005 23:49	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
EDB	ND	0.0050	mg/Kg	1.00	11/28/2005 23:49	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	86.2	76-124	%	1.00	11/28/2005 23:49	
Toluene-d8	103.5	75-116	%	1.00	11/28/2005 23:49	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-4@35`	Lab ID: 2005-11-0220 - 20
Sampled: 11/14/2005 12:55	Extracted: 11/26/2005 04:03
Matrix: Soil	QC Batch#: 2005/11/25-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/26/2005 04:03	
Benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
Toluene	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
Total xylenes	0.0062	0.0050	mg/Kg	1.00	11/26/2005 04:03	
tert-Butyl alcohol (TBA)	0.038	0.010	mg/Kg	1.00	11/26/2005 04:03	
Methyl tert-butyl ether (MTBE)	0.27	0.0050	mg/Kg	1.00	11/26/2005 04:03	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/26/2005 04:03	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
EDB	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	110.5	76-124	%	1.00	11/26/2005 04:03	
Toluene-d8	99.4	75-116	%	1.00	11/26/2005 04:03	

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

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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-4@40`	Lab ID:	2005-11-0220 - 21
Sampled:	11/14/2005 13:00	Extracted:	11/22/2005 09:52
Matrix:	Soil	QC Batch#:	2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 09:52	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
tert-Butyl alcohol (TBA)	0.014	0.010	mg/Kg	1.00	11/22/2005 09:52	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 09:52	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 09:52	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.1	76-124	%	1.00	11/22/2005 09:52	
Toluene-d8	87.8	75-116	%	1.00	11/22/2005 09:52	

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

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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-4@45`	Lab ID: 2005-11-0220 - 22
Sampled: 11/15/2005 13:09	Extracted: 11/22/2005 10:14
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 10:14	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:14	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:14	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 10:14	
tert-Butyl alcohol (TBA)	0.076	0.010	mg/Kg	1.00	11/22/2005 10:14	
Methyl tert-butyl ether (MTBE)	0.21	0.0050	mg/Kg	1.00	11/22/2005 10:14	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 10:14	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 10:14	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 10:14	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 10:14	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 10:14	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	97.8	76-124	%	1.00	11/22/2005 10:14	
Toluene-d8	89.9	75-116	%	1.00	11/22/2005 10:14	

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

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-6@5`</b>	Lab ID:	2005-11-0220 - 23
Sampled:	11/11/2005 09:26	Extracted:	11/22/2005 10:36
Matrix:	Soil	QC Batch#:	2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 10:36	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 10:36	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 10:36	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 10:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.9	76-124	%	1.00	11/22/2005 10:36	
Toluene-d8	89.4	75-116	%	1.00	11/22/2005 10:36	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-6@10`	Lab ID: 2005-11-0220 - 24
Sampled: 11/15/2005 11:35	Extracted: 11/22/2005 10:57
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 10:57	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 10:57	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 10:57	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 10:57	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.5	76-124	%	1.00	11/22/2005 10:57	
Toluene-d8	94.2	75-116	%	1.00	11/22/2005 10:57	



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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-6@15`	Lab ID: 2005-11-0220 - 25
Sampled: 11/15/2005 11:41	Extracted: 11/22/2005 11:18
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 11:18	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 11:18	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 11:18	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 11:18	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.8	76-124	%	1.00	11/22/2005 11:18	
Toluene-d8	92.3	75-116	%	1.00	11/22/2005 11:18	

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

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Project: SJ67-50S-1  
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Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7@5`	Lab ID: 2005-11-0220 - 26
Sampled: 11/11/2005 09:38	Extracted: 11/22/2005 11:39
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 11:39	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 11:39	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 11:39	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 11:39	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	109.4	76-124	%	1.00	11/22/2005 11:39	
Toluene-d8	97.7	75-116	%	1.00	11/22/2005 11:39	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7@10`	Lab ID: 2005-11-0220 - 27
Sampled: 11/15/2005 09:10	Extracted: 11/22/2005 12:00
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 12:00	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 12:00	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 12:00	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 12:00	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.6	76-124	%	1.00	11/22/2005 12:00	
Toluene-d8	100.0	75-116	%	1.00	11/22/2005 12:00	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7@15`	Lab ID: 2005-11-0220 - 28
Sampled: 11/15/2005 09:15	Extracted: 11/22/2005 12:21
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 12:21	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 12:21	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 12:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 12:21	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.8	76-124	%	1.00	11/22/2005 12:21	
Toluene-d8	97.7	75-116	%	1.00	11/22/2005 12:21	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7@20`	Lab ID: 2005-11-0220 - 29
Sampled: 11/15/2005 09:22	Extracted: 11/22/2005 12:42
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 12:42	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 12:42	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 12:42	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 12:42	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.8	76-124	%	1.00	11/22/2005 12:42	
Toluene-d8	97.6	75-116	%	1.00	11/22/2005 12:42	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7@30`	Lab ID: 2005-11-0220 - 30
Sampled: 11/15/2005 09:42	Extracted: 11/22/2005 13:05
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 13:05	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 13:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 13:05	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 13:05	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	97.6	76-124	%	1.00	11/22/2005 13:05	
Toluene-d8	99.1	75-116	%	1.00	11/22/2005 13:05	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7@34`	Lab ID: 2005-11-0220 - 31
Sampled: 11/15/2005 09:52	Extracted: 11/22/2005 13:26
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 13:26	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 13:26	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 13:26	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 13:26	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.1	76-124	%	1.00	11/22/2005 13:26	
Toluene-d8	93.6	75-116	%	1.00	11/22/2005 13:26	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7@40`	Lab ID: 2005-11-0220 - 32
Sampled: 11/15/2005 09:57	Extracted: 11/22/2005 13:47
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 13:47	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 13:47	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 13:47	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 13:47	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.6	76-124	%	1.00	11/22/2005 13:47	
Toluene-d8	97.5	75-116	%	1.00	11/22/2005 13:47	



**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: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-7@45`	Lab ID: 2005-11-0220 - 33
Sampled: 11/15/2005 10:09	Extracted: 11/22/2005 14:08
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 14:08	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 14:08	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 14:08	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 14:08	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.0	76-124	%	1.00	11/22/2005 14:08	
Toluene-d8	97.8	75-116	%	1.00	11/22/2005 14:08	

**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) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-8@5`	Lab ID: 2005-11-0220 - 34
Sampled: 11/11/2005 11:42	Extracted: 11/22/2005 14:29
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 14:29	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 14:29	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 14:29	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 14:29	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	110.7	76-124	%	1.00	11/22/2005 14:29	
Toluene-d8	99.4	75-116	%	1.00	11/22/2005 14:29	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-8@10`	Lab ID: 2005-11-0220 - 35
Sampled: 11/15/2005 14:49	Extracted: 11/22/2005 14:50
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 14:50	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 14:50	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 14:50	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 14:50	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.4	76-124	%	1.00	11/22/2005 14:50	
Toluene-d8	96.2	75-116	%	1.00	11/22/2005 14:50	

**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) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-8@15`</b>	Lab ID:	2005-11-0220 - 36
Sampled:	11/15/2005 14:51	Extracted:	11/22/2005 15:11
Matrix:	Soil	QC Batch#:	2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 15:11	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 15:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 15:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 15:11	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.5	76-124	%	1.00	11/22/2005 15:11	
Toluene-d8	97.2	75-116	%	1.00	11/22/2005 15:11	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11@5`	Lab ID: 2005-11-0220 - 37
Sampled: 11/15/2005 09:03	Extracted: 11/22/2005 15:32
Matrix: Soil	QC Batch#: 2005/11/22-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 15:32	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 15:32	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 15:32	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 15:32	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	109.6	76-124	%	1.00	11/22/2005 15:32	
Toluene-d8	95.2	75-116	%	1.00	11/22/2005 15:32	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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San Jose, CA 95119  
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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11@10`	Lab ID: 2005-11-0220 - 38
Sampled: 11/14/2005 15:15	Extracted: 11/22/2005 21:43
Matrix: Soil	QC Batch#: 2005/11/22-4A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/22/2005 21:43	
Benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
Toluene	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/22/2005 21:43	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/22/2005 21:43	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
EDB	ND	0.0050	mg/Kg	1.00	11/22/2005 21:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	126.8	76-124	%	1.00	11/22/2005 21:43	S7
Toluene-d8	94.2	75-116	%	1.00	11/22/2005 21:43	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
 97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11@15`	Lab ID: 2005-11-0220 - 39
Sampled: 11/14/2005 15:19	Extracted: 11/24/2005 05:19
Matrix: Soil	QC Batch#: 2005/11/23-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/24/2005 05:19	
Benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
Toluene	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/24/2005 05:19	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/24/2005 05:19	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
EDB	ND	0.0050	mg/Kg	1.00	11/24/2005 05:19	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	90.4	76-124	%	1.00	11/24/2005 05:19	
Toluene-d8	96.2	75-116	%	1.00	11/24/2005 05:19	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11@20`	Lab ID: 2005-11-0220 - 40
Sampled: 11/14/2005 15:27	Extracted: 11/24/2005 05:45
Matrix: Soil	QC Batch#: 2005/11/23-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/24/2005 05:45	
Benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
Toluene	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/24/2005 05:45	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/24/2005 05:45	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
EDB	ND	0.0050	mg/Kg	1.00	11/24/2005 05:45	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	91.8	76-124	%	1.00	11/24/2005 05:45	
Toluene-d8	88.7	75-116	%	1.00	11/24/2005 05:45	



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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-11@25`</b>	Lab ID:	2005-11-0220 - 41
Sampled:	11/14/2005 15:35	Extracted:	11/24/2005 06:11
Matrix:	Soil	QC Batch#:	2005/11/23-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/24/2005 06:11	
Benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
Toluene	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/24/2005 06:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/24/2005 06:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
EDB	ND	0.0050	mg/Kg	1.00	11/24/2005 06:11	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	89.5	76-124	%	1.00	11/24/2005 06:11	
Toluene-d8	91.1	75-116	%	1.00	11/24/2005 06:11	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11@30`	Lab ID: 2005-11-0220 - 42
Sampled: 11/14/2005 15:43	Extracted: 11/24/2005 06:37
Matrix: Soil	QC Batch#: 2005/11/23-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/24/2005 06:37	
Benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
Toluene	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/24/2005 06:37	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/24/2005 06:37	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
EDB	ND	0.0050	mg/Kg	1.00	11/24/2005 06:37	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	85.5	76-124	%	1.00	11/24/2005 06:37	
Toluene-d8	92.6	75-116	%	1.00	11/24/2005 06:37	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11@35`	Lab ID: 2005-11-0220 - 43
Sampled: 11/14/2005 15:50	Extracted: 11/26/2005 04:03
Matrix: Soil	QC Batch#: 2005/11/25-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/26/2005 04:03	
Benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
Toluene	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
Total xylenes	0.0062	0.0050	mg/Kg	1.00	11/26/2005 04:03	
tert-Butyl alcohol (TBA)	0.038	0.010	mg/Kg	1.00	11/26/2005 04:03	
Methyl tert-butyl ether (MTBE)	0.27	0.0050	mg/Kg	1.00	11/26/2005 04:03	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/26/2005 04:03	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
EDB	ND	0.0050	mg/Kg	1.00	11/26/2005 04:03	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	110.5	76-124	%	1.00	11/26/2005 04:03	
Toluene-d8	99.4	75-116	%	1.00	11/26/2005 04:03	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11@40`	Lab ID: 2005-11-0220 - 44
Sampled: 11/14/2005 16:00	Extracted: 11/25/2005 22:15
Matrix: Soil	QC Batch#: 2005/11/25-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/25/2005 22:15	
Benzene	ND	0.0050	mg/Kg	1.00	11/25/2005 22:15	
Toluene	ND	0.0050	mg/Kg	1.00	11/25/2005 22:15	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/25/2005 22:15	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/25/2005 22:15	
tert-Butyl alcohol (TBA)	0.33	0.010	mg/Kg	1.00	11/25/2005 22:15	
Methyl tert-butyl ether (MTBE)	0.20	0.0050	mg/Kg	1.00	11/25/2005 22:15	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/25/2005 22:15	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/25/2005 22:15	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/25/2005 22:15	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/25/2005 22:15	
EDB	ND	0.0050	mg/Kg	1.00	11/25/2005 22:15	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	114.7	76-124	%	1.00	11/25/2005 22:15	
Toluene-d8	112.1	75-116	%	1.00	11/25/2005 22:15	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-11@45`	Lab ID: 2005-11-0220 - 45
Sampled: 11/14/2005 16:12	Extracted: 11/25/2005 21:54
Matrix: Soil	QC Batch#: 2005/11/25-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/25/2005 21:54	
Benzene	ND	0.0050	mg/Kg	1.00	11/25/2005 21:54	
Toluene	ND	0.0050	mg/Kg	1.00	11/25/2005 21:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/25/2005 21:54	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/25/2005 21:54	
tert-Butyl alcohol (TBA)	0.39	0.010	mg/Kg	1.00	11/25/2005 21:54	
Methyl tert-butyl ether (MTBE)	0.22	0.0050	mg/Kg	1.00	11/25/2005 21:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/25/2005 21:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/25/2005 21:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/25/2005 21:54	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/25/2005 21:54	
EDB	ND	0.0050	mg/Kg	1.00	11/25/2005 21:54	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	113.7	76-124	%	1.00	11/25/2005 21:54	
Toluene-d8	110.0	75-116	%	1.00	11/25/2005 21:54	

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

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-7@24.5'</b>	Lab ID:	2005-11-0220 - 46
Sampled:	11/15/2005 09:35	Extracted:	11/26/2005 03:41
Matrix:	Soil	QC Batch#:	2005/11/25-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/26/2005 03:41	
Benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
Toluene	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/26/2005 03:41	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/26/2005 03:41	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
EDB	ND	0.0050	mg/Kg	1.00	11/26/2005 03:41	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	114.2	76-124	%	1.00	11/26/2005 03:41	
Toluene-d8	98.0	75-116	%	1.00	11/26/2005 03:41	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/21-1A.69**

MB: 2005/11/21-1A.69-058

Date Extracted: 11/21/2005 07:58

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/21/2005 07:58	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/21/2005 07:58	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/21/2005 07:58	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/21/2005 07:58	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/21/2005 07:58	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/21/2005 07:58	
1,2-DCA	ND	0.0050	mg/Kg	11/21/2005 07:58	
EDB	ND	0.0050	mg/Kg	11/21/2005 07:58	
Benzene	ND	0.0050	mg/Kg	11/21/2005 07:58	
Toluene	ND	0.0050	mg/Kg	11/21/2005 07:58	
Ethyl benzene	ND	0.0050	mg/Kg	11/21/2005 07:58	
Total xylenes	ND	0.0050	mg/Kg	11/21/2005 07:58	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	102.0	76-124	%	11/21/2005 07:58	
Toluene-d8	89.8	75-116	%	11/21/2005 07:58	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/22-2B.69**

MB: 2005/11/22-2B.69-029

Date Extracted: 11/22/2005 07:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/22/2005 07:29	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/22/2005 07:29	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/22/2005 07:29	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/22/2005 07:29	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/22/2005 07:29	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/22/2005 07:29	
1,2-DCA	ND	0.0050	mg/Kg	11/22/2005 07:29	
EDB	ND	0.0050	mg/Kg	11/22/2005 07:29	
Benzene	ND	0.0050	mg/Kg	11/22/2005 07:29	
Toluene	ND	0.0050	mg/Kg	11/22/2005 07:29	
Ethyl benzene	ND	0.0050	mg/Kg	11/22/2005 07:29	
Total xylenes	ND	0.0050	mg/Kg	11/22/2005 07:29	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	102.8	76-124	%	11/22/2005 07:29	
Toluene-d8	92.0	75-116	%	11/22/2005 07:29	



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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/22-4A.69**

MB: 2005/11/22-4A.69-021

Date Extracted: 11/22/2005 20:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/22/2005 20:21	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/22/2005 20:21	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/22/2005 20:21	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/22/2005 20:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/22/2005 20:21	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/22/2005 20:21	
1,2-DCA	ND	0.0050	mg/Kg	11/22/2005 20:21	
EDB	ND	0.0050	mg/Kg	11/22/2005 20:21	
Benzene	ND	0.0050	mg/Kg	11/22/2005 20:21	
Toluene	ND	0.0050	mg/Kg	11/22/2005 20:21	
Ethyl benzene	ND	0.0050	mg/Kg	11/22/2005 20:21	
Total xylenes	ND	0.0050	mg/Kg	11/22/2005 20:21	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	105.0	76-124	%	11/22/2005 20:21	
Toluene-d8	97.6	75-116	%	11/22/2005 20:21	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/23-2B.62**

MB: 2005/11/23-2B.62-020

Date Extracted: 11/23/2005 21:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/23/2005 21:20	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/23/2005 21:20	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/23/2005 21:20	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/23/2005 21:20	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/23/2005 21:20	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/23/2005 21:20	
1,2-DCA	ND	0.0050	mg/Kg	11/23/2005 21:20	
EDB	ND	0.0050	mg/Kg	11/23/2005 21:20	
Benzene	ND	0.0050	mg/Kg	11/23/2005 21:20	
Toluene	ND	0.0050	mg/Kg	11/23/2005 21:20	
Ethyl benzene	ND	0.0050	mg/Kg	11/23/2005 21:20	
Total xylenes	ND	0.0050	mg/Kg	11/23/2005 21:20	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	92.4	76-124	%	11/23/2005 21:20	
Toluene-d8	99.4	75-116	%	11/23/2005 21:20	

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/25-1A.64**

MB: 2005/11/25-1A.64-007

Date Extracted: 11/25/2005 19:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/25/2005 19:07	
Gasoline [Shell]	ND	1.0	mg/Kg	11/25/2005 19:07	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/25/2005 19:07	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/25/2005 19:07	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/25/2005 19:07	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/25/2005 19:07	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/25/2005 19:07	
1,2-DCA	ND	0.0050	mg/Kg	11/25/2005 19:07	
EDB	ND	0.0050	mg/Kg	11/25/2005 19:07	
Benzene	ND	0.0050	mg/Kg	11/25/2005 19:07	
Toluene	ND	0.0050	mg/Kg	11/25/2005 19:07	
Ethyl benzene	ND	0.0050	mg/Kg	11/25/2005 19:07	
Total xylenes	ND	0.0050	mg/Kg	11/25/2005 19:07	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	103.0	76-124	%	11/25/2005 19:07	
Toluene-d8	106.2	75-116	%	11/25/2005 19:07	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/25-1A.69**

MB: 2005/11/25-1A.69-057

Date Extracted: 11/25/2005 23:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/25/2005 23:02	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/25/2005 23:02	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/25/2005 23:02	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/25/2005 23:02	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/25/2005 23:02	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/25/2005 23:02	
1,2-DCA	ND	0.0050	mg/Kg	11/25/2005 23:02	
EDB	ND	0.0050	mg/Kg	11/25/2005 23:02	
Benzene	ND	0.0050	mg/Kg	11/25/2005 23:02	
Toluene	ND	0.0050	mg/Kg	11/25/2005 23:02	
Ethyl benzene	ND	0.0050	mg/Kg	11/25/2005 23:02	
Total xylenes	ND	0.0050	mg/Kg	11/25/2005 23:02	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	110.2	76-124	%	11/25/2005 23:02	
Toluene-d8	97.8	75-116	%	11/25/2005 23:02	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/28-2A.62**

MB: 2005/11/28-2A.62-042

Date Extracted: 11/28/2005 19:42

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/28/2005 19:42	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/28/2005 19:42	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/28/2005 19:42	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/28/2005 19:42	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/28/2005 19:42	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/28/2005 19:42	
1,2-DCA	ND	0.0050	mg/Kg	11/28/2005 19:42	
EDB	ND	0.0050	mg/Kg	11/28/2005 19:42	
Benzene	ND	0.0050	mg/Kg	11/28/2005 19:42	
Toluene	ND	0.0050	mg/Kg	11/28/2005 19:42	
Ethyl benzene	ND	0.0050	mg/Kg	11/28/2005 19:42	
Total xylenes	ND	0.0050	mg/Kg	11/28/2005 19:42	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	85.2	76-124	%	11/28/2005 19:42	
Toluene-d8	96.6	75-116	%	11/28/2005 19:42	

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/11/21-1A.69</b>				
LCS	2005/11/21-1A.69-016		Extracted: 11/21/2005			Analyzed: 11/21/2005 07:16				
LCSD	2005/11/21-1A.69-037		Extracted: 11/21/2005			Analyzed: 11/21/2005 07:37				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0584	0.0622	0.05	116.8	124.4	6.3	65-165	20		
Benzene	0.0500	0.0521	0.05	100.0	104.2	4.1	69-129	20		
Toluene	0.0533	0.0567	0.05	106.6	113.4	6.2	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	437	447	500	87.4	89.4		76-124			
Toluene-d8	469	467	500	93.8	93.4		75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report									
Prep(s): 5030B						Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/11/22-2B.69</b>			
LCS	2005/11/22-2B.69-047		Extracted: 11/22/2005			Analyzed: 11/22/2005 06:47			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0594		0.05	118.8			65-165	20		
Benzene	0.0464		0.05	92.8			69-129	20		
Toluene	0.0483		0.05	96.6			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	472		500	94.4			76-124			
Toluene-d8	463		500	92.6			75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report									
Prep(s): 5030B						Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/11/22-4A.69</b>			
LCS	2005/11/22-4A.69-042		Extracted: 11/22/2005			Analyzed: 11/22/2005 20:42			
LCSD									

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0511		0.049900	102.4			65-165	20		
Benzene	0.0401		0.049900	80.4			69-129	20		
Toluene	0.0411		0.049900	82.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	509		500	101.8			76-124			
Toluene-d8	483		500	96.6			75-116			



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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>		<b>Soil</b>	<b>QC Batch # 2005/11/23-2B.62</b>
LCS	2005/11/23-2B.62-028	Extracted: 11/23/2005	Analyzed: 11/23/2005 20:28
LCSD	2005/11/23-2B.62-054	Extracted: 11/23/2005	Analyzed: 11/23/2005 20:54

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0524	0.0435	0.05	104.8	87.0	18.6	65-165	20		
Benzene	0.0430	0.0411	0.05	86.0	82.2	4.5	69-129	20		
Toluene	0.0525	0.0502	0.05	105.0	100.4	4.5	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	483	426	500	96.6	85.2		76-124			
Toluene-d8	516	506	500	103.2	101.2		75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>		<b>Soil</b>	<b>QC Batch # 2005/11/25-1A.64</b>
LCS	2005/11/25-1A.64-025	Extracted: 11/25/2005	Analyzed: 11/25/2005 18:25
LCSD	2005/11/25-1A.64-042	Extracted: 11/26/2005	Analyzed: 11/26/2005 00:42

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0501	0.0568	0.05	100.2	113.6	12.5	65-165	20		
Benzene	0.0477	0.0490	0.05	95.4	98.0	2.7	69-129	20		
Toluene	0.0490	0.0530	0.05	98.0	106.0	7.8	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	529	572	500	105.8	114.4		76-124			
Toluene-d8	530	562	500	106.0	112.4		75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>		<b>Soil</b>	<b>QC Batch # 2005/11/25-1A.69</b>
LCS	2005/11/25-1A.69-055	Extracted: 11/25/2005	Analyzed: 11/25/2005 22:17
LCSD	2005/11/25-1A.69-056	Extracted: 11/25/2005	Analyzed: 11/25/2005 22:40

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0573	0.0593	0.05	114.6	118.6	3.4	65-165	20		
Benzene	0.0513	0.0528	0.05	102.6	105.6	2.9	69-129	20		
Toluene	0.0564	0.0538	0.05	112.8	107.6	4.7	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	494	496	500	98.8	99.2		76-124			
Toluene-d8	502	499	500	100.4	99.8		75-116			

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97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>	<b>Soil</b>	<b>QC Batch # 2005/11/28-2A.62</b>	
LCS 2005/11/28-2A.62-049	Extracted: 11/28/2005	Analyzed: 11/28/2005 18:49	
LCSD 2005/11/28-2A.62-016	Extracted: 11/28/2005	Analyzed: 11/28/2005 19:16	

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0409	0.0470	0.05	81.8	94.0	13.9	65-165	20		
Benzene	0.0426	0.0465	0.05	85.2	93.0	8.8	69-129	20		
Toluene	0.0429	0.0465	0.05	85.8	93.0	8.1	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	440	437	500	88.0	87.4		76-124			
Toluene-d8	516	505	500	103.2	101.0		75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report											
Prep(s): 5030B						Test(s): 8260B					
<b>Matrix Spike ( MS / MSD )</b>				<b>Soil</b>				<b>QC Batch # 2005/11/21-1A.69</b>			
B-1@5` >> MS						Lab ID: 2005-11-0220 - 001					
MS: 2005/11/21-1A.69-042			Extracted: 11/21/2005			Analyzed: 11/21/2005 09:42			Dilution: 1.00		
MSD: 2005/11/21-1A.69-003			Extracted: 11/21/2005			Analyzed: 11/21/2005 10:03			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	0.0594	0.0540	ND	0.045454	130.7	122.9	6.2	65-165	20		
Benzene	0.0503	0.0452	ND	0.045454	110.7	102.9	7.3	69-129	20		
Toluene	0.0504	0.0469	ND	0.045454	110.9	106.7	3.9	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	495	484		500	99.0	96.8		76-124			
Toluene-d8	470	467		500	94.0	93.4		75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/22-2B.69</b>	
B-11@35` >> MS		Lab ID:	2005-11-0220 - 043
MS: 2005/11/22-2B.69-048	Extracted: 11/22/2005	Analyzed:	11/22/2005 08:48
		Dilution:	1.00
MSD: 2005/11/22-2B.69-049	Extracted: 11/22/2005	Analyzed:	11/22/2005 09:10
		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	0.503	0.564	0.527	0.047259	-50.8	85.1	792.	65-165	20	M5	R1
Benzene	0.0434	0.0457	ND	0.047259	91.8	105.1	13.5	69-129	20		
Toluene	0.0455	0.0470	ND	0.047259	96.3	108.1	11.5	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	457	470		500	91.4	94.0		76-124			
Toluene-d8	455	453		500	91.0	90.6		75-116			

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97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/22-4A.69</b>	
MS/MSD	Lab ID: 2005-11-0200 - 051		
MS: 2005/11/22-4A.69-017	Extracted: 11/23/2005	Analyzed: 11/23/2005 01:17	
		Dilution: 1.00	
MSD: 2005/11/22-4A.69-039	Extracted: 11/23/2005	Analyzed: 11/23/2005 01:39	
		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	0.0562	0.0565	ND	0.048923	114.9	113.0	1.7	65-165	20		
Benzene	0.0497	0.0450	ND	0.048923	101.6	90.0	12.1	69-129	20		
Toluene	0.105	0.0813	0.0238	0.048923	166.0	115.0	36.3	70-130	20	M4	R1
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	471	484		500	94.2	96.8		76-124			
Toluene-d8	464	458		500	92.8	91.6		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) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/23-2B.62</b>	
MS/MSD	Lab ID: 2005-11-0232 - 006		
MS: 2005/11/23-2B.62-068	Extracted: 11/24/2005	Analyzed: 11/24/2005 04:00	
		Dilution: 1.00	
MSD: 2005/11/23-2B.62-027	Extracted: 11/24/2005	Analyzed: 11/24/2005 04:27	
		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	0.0488	0.0424	ND	0.049900	97.8	90.1	8.2	65-165	20		
Benzene	0.0522	0.0473	ND	0.049900	104.6	100.5	4.0	69-129	20		
Toluene	0.0512	0.0445	ND	0.049900	102.6	94.5	8.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	403	420		500	80.6	84.0		76-124			
Toluene-d8	489	485		500	97.8	97.0		75-116			



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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/25-1A.64</b>	
MS/MSD	Lab ID: 2005-11-0237 - 011		
MS: 2005/11/25-1A.64-023	Extracted: 11/26/2005	Analyzed: 11/26/2005	
		Dilution: 1.00	
MSD: 2005/11/25-1A.64-021	Extracted: 11/26/2005	Analyzed: 11/26/2005 00:21	
		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	0.0464	0.0473	ND	0.048543	95.6	94.6	1.2	65-165	20		
Benzene	0.0433	0.0456	ND	0.048543	89.2	91.2	2.1	69-129	20		
Toluene	0.0454	0.0494	ND	0.048543	93.5	98.8	5.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	549	559		500	109.8	111.8		76-124			
Toluene-d8	581	577		500	116.2	115.4		75-116		S7	

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

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/11/25-1A.69**

B-7@24.5` >> MS

Lab ID: 2005-11-0220 - 046

MS: 2005/11/25-1A.69-030

Extracted: 11/26/2005

Analyzed: 11/26/2005 02:54

Dilution: 1.00

MSD: 2005/11/25-1A.69-054

Extracted: 11/26/2005

Analyzed: 11/26/2005 02:54

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	0.0534	0.0498	ND	0.046382	115.1	99.8	14.2	65-165	20		
Benzene	0.0439	0.0444	ND	0.046382	94.6	89.0	6.1	69-129	20		
Toluene	0.0429	0.0421	ND	0.046382	92.5	84.4	9.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	526	520		500	105.2	104.0		76-124			
Toluene-d8	489	488		500	97.8	97.6		75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/28-2A.62</b>	
MS/MSD	Lab ID: 2005-11-0256 - 002		
MS: 2005/11/28-2A.62-011	Extracted: 11/29/2005	Analyzed: 11/29/2005 04:11	
		Dilution: 1.00	
MSD: 2005/11/28-2A.62-037	Extracted: 11/29/2005	Analyzed: 11/29/2005 04:37	
		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	0.0537	0.0543	ND	0.047709	112.6	113.6	0.9	65-165	20		
Benzene	0.0554	0.0533	ND	0.047709	116.1	111.5	4.0	69-129	20		
Toluene	0.0530	0.0496	ND	0.047709	111.1	103.8	6.8	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	492	488		500	98.4	97.6		76-124			
Toluene-d8	517	487		500	103.4	97.4		75-116			

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

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

#### Legend and Notes

##### Result Flag

M4

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

M5

MS/MSD spike recoveries were below 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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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-1@5`	11/11/2005 10:50	Soil	1
B-1@10`	11/14/2005 08:56	Soil	2
B-1@15`	11/14/2005 09:01	Soil	3
B-1@20`	11/14/2005 09:08	Soil	4
B-1@25`	11/14/2005 09:20	Soil	5
B-1@30`	11/14/2005 09:29	Soil	6
B-1@35`	11/14/2005 09:39	Soil	7
B-1@40`	11/14/2005 09:47	Soil	8
B-1@45`	11/14/2005 10:12	Soil	9
B-3@5`	11/11/2005 10:06	Soil	10
B-3@10`	11/15/2005 13:52	Soil	11
B-3@15`	11/15/2005 13:57	Soil	12
B-3@20`	11/15/2005 14:11	Soil	13
B-3@25`	11/15/2005 14:15	Soil	14
B-4@5`	11/11/2005 08:34	Soil	15
B-4@12`	11/14/2005 12:19	Soil	16
B-4@15`	11/14/2005 12:33	Soil	17
B-4@20`	11/14/2005 12:26	Soil	18
B-4@25`	11/14/2005 12:38	Soil	19
B-4@35`	11/14/2005 12:55	Soil	20
B-4@40`	11/14/2005 13:00	Soil	21
B-4@45`	11/15/2005 13:09	Soil	22
B-6@5`	11/11/2005 09:26	Soil	23
B-6@10`	11/15/2005 11:35	Soil	24
B-6@15`	11/15/2005 11:41	Soil	25
B-7@5`	11/11/2005 09:38	Soil	26
B-7@10`	11/15/2005 09:10	Soil	27
B-7@15`	11/15/2005 09:15	Soil	28
B-7@20`	11/15/2005 09:22	Soil	29
B-7@30`	11/15/2005 09:42	Soil	30
B-7@34`	11/15/2005 09:52	Soil	31
B-7@40`	11/15/2005 09:57	Soil	32

**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-7@45`	11/15/2005 10:09	Soil	33
B-8@5`	11/11/2005 11:42	Soil	34
B-8@10`	11/15/2005 14:49	Soil	35
B-8@15`	11/15/2005 14:51	Soil	36
B-11@5`	11/15/2005 09:03	Soil	37
B-11@10`	11/14/2005 15:15	Soil	38
B-11@15`	11/14/2005 15:19	Soil	39
B-11@20`	11/14/2005 15:27	Soil	40
B-11@25`	11/14/2005 15:35	Soil	41
B-11@30`	11/14/2005 15:43	Soil	42
B-11@35`	11/14/2005 15:50	Soil	43
B-11@40`	11/14/2005 16:00	Soil	44
B-11@45`	11/14/2005 16:12	Soil	45
B-7@24.5`	11/15/2005 09:35	Soil	46

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@5`</b>	Lab ID: 2005-11-0220 - 1
Sampled: 11/11/2005 10:50	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	9.6	1.0	mg/Kg	1.00	11/21/2005 09:30	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@10`</b>	Lab ID: 2005-11-0220 - 2
Sampled: 11/14/2005 08:56	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.3	1.0	mg/Kg	1.00	11/21/2005 09:41	



**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@15`</b>	Lab ID: 2005-11-0220 - 3
Sampled: 11/14/2005 09:01	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.8	1.0	mg/Kg	1.00	11/21/2005 09:45	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@20`</b>	Lab ID: 2005-11-0220 - 4
Sampled: 11/14/2005 09:08	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.7	1.0	mg/Kg	1.00	11/21/2005 09:55	

**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@25`</b>	Lab ID: 2005-11-0220 - 5
Sampled: 11/14/2005 09:20	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.4	1.0	mg/Kg	1.00	11/21/2005 09:59	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@30`</b>	Lab ID: 2005-11-0220 - 6
Sampled: 11/14/2005 09:29	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.0	1.0	mg/Kg	1.00	11/21/2005 10:03	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@35`</b>	Lab ID: 2005-11-0220 - 7
Sampled: 11/14/2005 09:39	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.3	1.0	mg/Kg	1.00	11/21/2005 10:07	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@40`</b>	Lab ID: 2005-11-0220 - 8
Sampled: 11/14/2005 09:47	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.0	1.0	mg/Kg	1.00	11/21/2005 10:10	

**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-1@45`</b>	Lab ID: 2005-11-0220 - 9
Sampled: 11/14/2005 10:12	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.9	1.0	mg/Kg	1.00	11/21/2005 10:14	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-3@5`</b>	Lab ID: 2005-11-0220 - 10
Sampled: 11/11/2005 10:06	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.3	1.0	mg/Kg	1.00	11/21/2005 10:18	



**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-3@10`</b>	Lab ID: 2005-11-0220 - 11
Sampled: 11/15/2005 13:52	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.7	1.0	mg/Kg	1.00	11/21/2005 10:22	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-3@15`</b>	Lab ID: 2005-11-0220 - 12
Sampled: 11/15/2005 13:57	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.0	1.0	mg/Kg	1.00	11/21/2005 10:25	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-3@20`</b>	Lab ID: 2005-11-0220 - 13
Sampled: 11/15/2005 14:11	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.9	1.0	mg/Kg	1.00	11/21/2005 10:29	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-3@25`</b>	Lab ID: 2005-11-0220 - 14
Sampled: 11/15/2005 14:15	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.2	1.0	mg/Kg	1.00	11/21/2005 10:40	

**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-4@5`</b>	Lab ID: 2005-11-0220 - 15
Sampled: 11/11/2005 08:34	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.5	1.0	mg/Kg	1.00	11/21/2005 10:43	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-4@12`</b>	Lab ID: 2005-11-0220 - 16
Sampled: 11/14/2005 12:19	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.4	1.0	mg/Kg	1.00	11/21/2005 10:47	

**Total Lead**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-4@15`</b>	Lab ID: 2005-11-0220 - 17
Sampled: 11/14/2005 12:33	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.7	1.0	mg/Kg	1.00	11/21/2005 10:51	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-4@20`</b>	Lab ID: 2005-11-0220 - 18
Sampled: 11/14/2005 12:26	Extracted: 11/18/2005 09:19
Matrix: Soil	QC Batch#: 2005/11/18-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.8	1.0	mg/Kg	1.00	11/21/2005 10:55	



**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-4@25`</b>	Lab ID: 2005-11-0220 - 19
Sampled: 11/14/2005 12:38	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.4	1.0	mg/Kg	1.00	11/22/2005 15:26	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-4@35`</b>	Lab ID: 2005-11-0220 - 20
Sampled: 11/14/2005 12:55	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.8	1.0	mg/Kg	1.00	11/22/2005 15:37	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-4@40`</b>	Lab ID: 2005-11-0220 - 21
Sampled: 11/14/2005 13:00	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.7	1.0	mg/Kg	1.00	11/22/2005 15:48	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-4@45`</b>	Lab ID: 2005-11-0220 - 22
Sampled: 11/15/2005 13:09	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.6	1.0	mg/Kg	1.00	11/22/2005 15:51	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-6@5`</b>	Lab ID: 2005-11-0220 - 23
Sampled: 11/11/2005 09:26	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.2	1.0	mg/Kg	1.00	11/22/2005 15:55	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-6@10`</b>	Lab ID: 2005-11-0220 - 24
Sampled: 11/15/2005 11:35	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.7	1.0	mg/Kg	1.00	11/22/2005 15:59	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-6@15`</b>	Lab ID: 2005-11-0220 - 25
Sampled: 11/15/2005 11:41	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.3	1.0	mg/Kg	1.00	11/22/2005 16:03	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@5`</b>	Lab ID: 2005-11-0220 - 26
Sampled: 11/11/2005 09:38	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.4	1.0	mg/Kg	1.00	11/22/2005 16:07	



**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@10`</b>	Lab ID: 2005-11-0220 - 27
Sampled: 11/15/2005 09:10	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.1	1.0	mg/Kg	1.00	11/22/2005 16:10	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@15`</b>	Lab ID: 2005-11-0220 - 28
Sampled: 11/15/2005 09:15	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.1	1.0	mg/Kg	1.00	11/22/2005 16:14	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@20`</b>	Lab ID: 2005-11-0220 - 29
Sampled: 11/15/2005 09:22	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.5	1.0	mg/Kg	1.00	11/22/2005 16:18	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@30`</b>	Lab ID: 2005-11-0220 - 30
Sampled: 11/15/2005 09:42	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.5	1.0	mg/Kg	1.00	11/22/2005 16:22	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@34`</b>	Lab ID: 2005-11-0220 - 31
Sampled: 11/15/2005 09:52	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.3	1.0	mg/Kg	1.00	11/22/2005 16:32	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@40`</b>	Lab ID: 2005-11-0220 - 32
Sampled: 11/15/2005 09:57	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.3	1.0	mg/Kg	1.00	11/22/2005 16:36	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@45`</b>	Lab ID: 2005-11-0220 - 33
Sampled: 11/15/2005 10:09	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.8	1.0	mg/Kg	1.00	11/22/2005 16:39	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-8@5`</b>	Lab ID: 2005-11-0220 - 34
Sampled: 11/11/2005 11:42	Extracted: 11/22/2005 08:08
Matrix: Soil	QC Batch#: 2005/11/22-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.9	1.0	mg/Kg	1.00	11/22/2005 16:43	



**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3050B	Test(s):	6010B
Sample ID:	<b>B-8@10`</b>	Lab ID:	2005-11-0220 - 35
Sampled:	11/15/2005 14:49	Extracted:	12/2/2005 15:31
Matrix:	Soil	QC Batch#:	2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.8	1.0	mg/Kg	1.00	12/02/2005 20:14	

**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-8@15`</b>	Lab ID: 2005-11-0220 - 36
Sampled: 11/15/2005 14:51	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.4	1.0	mg/Kg	1.00	12/02/2005 20:26	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-11@5`</b>	Lab ID: 2005-11-0220 - 37
Sampled: 11/15/2005 09:03	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	8.7	1.0	mg/Kg	1.00	12/02/2005 20:37	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-11@10`</b>	Lab ID: 2005-11-0220 - 38
Sampled: 11/14/2005 15:15	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.3	1.0	mg/Kg	1.00	12/02/2005 20:40	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-11@15`</b>	Lab ID: 2005-11-0220 - 39
Sampled: 11/14/2005 15:19	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.9	1.0	mg/Kg	1.00	12/02/2005 20:44	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-11@20`</b>	Lab ID: 2005-11-0220 - 40
Sampled: 11/14/2005 15:27	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.4	1.0	mg/Kg	1.00	12/02/2005 20:48	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-11@25`</b>	Lab ID: 2005-11-0220 - 41
Sampled: 11/14/2005 15:35	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.5	1.0	mg/Kg	1.00	12/02/2005 20:51	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-11@30`</b>	Lab ID: 2005-11-0220 - 42
Sampled: 11/14/2005 15:43	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.7	1.0	mg/Kg	1.00	12/02/2005 20:55	



**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3050B	Test(s):	6010B
Sample ID:	<b>B-11@35`</b>	Lab ID:	2005-11-0220 - 43
Sampled:	11/14/2005 15:50	Extracted:	12/2/2005 15:31
Matrix:	Soil	QC Batch#:	2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.6	1.0	mg/Kg	1.00	12/02/2005 20:59	

**Total Lead**

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Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-11@40`</b>	Lab ID: 2005-11-0220 - 44
Sampled: 11/14/2005 16:00	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.0	1.0	mg/Kg	1.00	12/02/2005 21:03	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-11@45`</b>	Lab ID: 2005-11-0220 - 45
Sampled: 11/14/2005 16:12	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.9	1.0	mg/Kg	1.00	12/02/2005 21:06	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-7@24.5</b>	Lab ID: 2005-11-0220 - 46
Sampled: 11/15/2005 09:35	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.0	1.0	mg/Kg	1.00	12/02/2005 21:10	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report					
Prep(s): 3050B		Test(s): 6010B			
<b>Method Blank</b>		<b>Soil</b>		<b>QC Batch # 2005/11/18-01.15</b>	
MB: 2005/11/18-01.15-001		Date Extracted: 11/18/2005 09:19			
Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	11/21/2005 09:11	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 3050B

Test(s): 6010B

**Method Blank**

**Soil**

**QC Batch # 2005/11/22-01.15**

MB: 2005/11/22-01.15-001

Date Extracted: 11/22/2005 08:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	11/22/2005 15:03	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 3050B Test(s): 6010B  
**Method Blank** **Soil** **QC Batch # 2005/12/02-01.15**  
 MB: 2005/12/02-01.15-001 Date Extracted: 12/02/2005 15:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	12/02/2005 19:44	

**Total Lead**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3050B						Test(s): 6010B				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/11/18-01.15</b>				
LCS	2005/11/18-01.15-002		Extracted: 11/18/2005			Analyzed: 11/21/2005 09:14				
LCSD	2005/11/18-01.15-003		Extracted: 11/18/2005			Analyzed: 11/21/2005 09:18				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	102	98.8	100.0	102.0	98.8	3.2	80-120	20		



**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3050B						Test(s): 6010B				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/11/22-01.15</b>				
LCS	2005/11/22-01.15-002		Extracted: 11/22/2005			Analyzed: 11/22/2005 15:06				
LCSD	2005/11/22-01.15-003		Extracted: 11/22/2005			Analyzed: 11/22/2005 15:10				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	94.0	94.5	100.0	94.0	94.5	0.5	80-120	20		

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/16/2005 11:29

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3050B						Test(s): 6010B				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/12/02-01.15</b>				
LCS	2005/12/02-01.15-002		Extracted: 12/02/2005			Analyzed: 12/02/2005 19:47				
LCSD	2005/12/02-01.15-003		Extracted: 12/02/2005			Analyzed: 12/02/2005 19:51				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	92.4	94.5	100.0	92.4	94.5	2.2	80-120	20		

1220 Quarry Lane  
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Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

**2005-11-0220**

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11-15-04

PAGE: 1 of 6

SAMPLING COMPANY: <b>Delta Environmental Consultants</b>		LOG CODE:	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO: <b>T0600102532</b>
ADDRESS: <b>175 Bernal Rd Suite 200 San Jose, CA 95119</b>		EDD DELIVERABLE TO (Responsible Party or Designer):	PHONE NO: <b>(408) 826-1866</b>	E-MAIL: <b>hbuckingham@deltaenv.com</b>	CONSULTANT PROJECT NO: <b>SJ67-50S-1</b>
PROJECT CONTACT (Handcopy or PDF Report to): <b>Debbie Arnold</b>		SAMPLER NAME(S) (Print): <b>Heather Buckingham</b>			LAB USE ONLY
TELEPHONE: <b>(408) 826-1873</b>	FAX: <b>(408) 225-8506</b>	E-MAIL: <b>darnold@deltaenv.com</b>			

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 NEEDED

Field Sample Identification						REQUESTED ANALYSIS													FIELD NOTES:				
LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8016m)	BTEX	MTBE (8260B - 0.5ppb RL)	IBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT5 <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°	2	
		DATE	TIME																				
	B-1@5'	11/11/05	10:50	soil	1	X	X	X			X	X					X						
	B-1@10'	11/14/05	8:56	soil	1	X	X	X			X	X					X						
	B-1@15'	11/14/05	9:01	soil	1	X	X	X			X	X					X						
	B-1@20'	11/14/05	9:08	soil	1	X	X	X			X	X					X						
	B-1@25'	11/14/05	9:20	soil	1	X	X	X			X	X					X						
	B-1@30'	11/14/05	9:29	soil	1	X	X	X			X	X					X						
	B-1@35'	11/14/05	9:39	soil	1	X	X	X			X	X					X						
	B-1@40'	11/14/05	9:47	soil	1	X	X	X			X	X					X						
	B-1@45'	11/14/05	10:12	soil	1	X	X	X			X	X					X						
	<del>B-2@5'</del>	<del>11/11/05</del>	<del>10:20</del>	<del>soil</del>	<del>1</del>	<del>X</del>	<del>X</del>	<del>X</del>			<del>X</del>	<del>X</del>					<del>X</del>						

Requested by: (Signature) <i>Heather B...</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11/16/05	Time: 1129
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11/16/05	Time: 1425
Requested by: (Signature)	Received by: (Signature)	Date:	Time:

114598

1220 Quarry Lane  
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Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

2005-11-0220

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11-15-04

PAGE: 2 of 6

SAMPLING COMPANY: <b>Delta Environmental Consultants</b>		LOG CODE:	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO.: <b>T0600102532</b>
ADDRESS: <b>175 Bernal Rd Suite 200 San Jose, CA 95119</b>		EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.: <b>(408) 826-1866</b>	E-MAIL: <b>hbuckingham@deltaenv.com</b>	CONSULTANT PROJECT NO.: <b>SJ67-50S-1</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Debbie Arnold</b>		SAMPLER NAME(S) (Print): <b>Heather Buckingham</b>			LAB USE ONLY
TELEPHONE: <b>(408) 826-1873</b>	FAX: <b>(408) 225-8506</b>	E-MAIL: <b>darnold@deltaenv.com</b>			

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 NEEDED

REQUESTED ANALYSIS															FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (8260B - 0.6ppb RL)	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT5 <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°		
X	X	X		X	X				X						2
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						
X	X	X		X	X				X						
X	X	X		X	X				X						

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	B-3@5'	11/11/05	10:06	soil	1
	B-3@10'	11/15/05	1:52	soil	1
	B-3@15'	11/15/05	1:57	soil	1
	B-3@20'	11/15/05	2:11	soil	1
	B-3@25'	11/15/05	2:15	soil	1
	B-4@5'	11/11/05	8:34	soil	1
	B-4@12'	11/14/05	12:19	soil	1
	B-4@15'	11/14/05	12:33	soil	1
	B-4@20'	11/14/05	12:26	soil	1
	B-4@25'	11/14/05	12:38	soil	1

Requested by: (Signature) <i>Denis Brown</i>	Received by: (Signature) <i>Heather Buckingham</i>	Date: 11/16/05	Time: 1129
Requested by: (Signature) <i>Heather Buckingham</i>	Received by: (Signature) <i>John Bull</i>	Date: 11/16/05	Time: 1825
Requested by: (Signature)	Received by: (Signature)	Date:	Time:

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- CRMT HOUSTON

Denis Brown

2005-11-0220

INCIDENT NUMBER (S&E ONLY)

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SAP or CRMT NUMBER (TS/CRMT)

DATE: 11-15-04

PAGE: 3 of 6

SAMPLING COMPANY: <b>Delta Environmental Consultants</b>		LOG CODE:	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO.: <b>T0600102532</b>
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TELEPHONE: <b>(408) 826-1873</b>	FAX: <b>(408) 225-8506</b>	E-MAIL: <b>darnold@deltaenv.com</b>			

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

LA - RWQCB REPORT FORMAT  UST AGENCY: \_\_\_\_\_

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ CHECK BOX IF EDD IS NEEDED

REQUESTED ANALYSIS

LAB USE ONLY

TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (8260B - 0.5ppb RL)	IBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT5 <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			
X	X	X			X	X					X			
X	X	X			X	X					X			
<del>X</del>	<del>X</del>	<del>X</del>			<del>X</del>	<del>X</del>								
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 C°

2

Relinquished by: (Signature) <i>Heather Buckingham</i>	Received by: (Signature) <i>John Arnold</i>	Date: <b>11/16/05</b>	Time: <b>1129</b>
Relinquished by: (Signature) <i>Heather Buckingham</i>	Received by: (Signature) <i>John Arnold</i>	Date: <b>11/16/05</b>	Time: <b>1825</b>
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

114590

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

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
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- CRMT HOUSTON

Denis Brown

2005-11-0220

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11-15-04

PAGE: 4 of 6

SAMPLER COMPANY: <b>Delta Environmental Consultants</b>		LOG CODE:	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO.: <b>T0600102532</b>
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TELEPHONE: <b>(408) 826-1873</b>	FAX: <b>(408) 225-8506</b>	E-MAIL: <b>darnold@deltaenv.com</b>		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 NEEDED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (8260B - 0.5ppb RL)	tBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT5 <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°	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																				
	B-7@20'	11/15/05	9:22	soil	1	X	X	X			X	X					X						
	B-7@30'	11/15/05	9:42	soil	1	X	X	X			X	X					X						
	B-7@34'	11/15/05	9:52	soil	1	X	X	X			X	X					X						
	B-7@40'	11/15/05	9:57	soil	1	X	X	X			X	X					X						
	B-7@45'	11/15/05	10:09	soil	1	X	X	X			X	X					X						
	B-8@5'	11/11/05	11:42	soil	1	X	X	X			X	X					X						
	B-8@10'	11/15/05	2:49	soil	1	X	X	X			X	X					X						
	B-8@15'	11/15/05	2:51	soil	1	X	X	X			X	X					X						
	<del>B-9@5'</del>	<del>11/11/05</del>	<del>11:32</del>	<del>soil</del>	<del>1</del>	<del>X</del>	<del>X</del>	<del>X</del>			<del>X</del>	<del>X</del>					<del>X</del>						
	<del>B-10@5'</del>	<del>11/11/05</del>	<del>11:23</del>	<del>soil</del>	<del>1</del>	<del>X</del>	<del>X</del>	<del>X</del>			<del>X</del>	<del>X</del>					<del>X</del>						

Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11/16/05	Time: 11:29
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11/16/05	Time: 18:25
Requested by: (Signature)	Received by: (Signature)	Date:	Time:

1220 Quarry Lane

Pleasanton, CA 94566

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Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

2005-11-0220

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11-15-04

PAGE: 5 of 6

SAMPLING COMPANY: <b>Delta Environmental Consultants</b>		LOG CODE:	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO: <b>T0600102532</b>
ADDRESS: <b>175 Bernal Rd Suite 200 San Jose, CA 95119</b>		EDD DELIVERABLE TO (Responsible Party or Designer):		PHONE NO: <b>(408) 826-1866</b>	E-MAIL: <b>hbuckingham@deltaenv.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Debbie Arnold</b>		SAMPLER NAME(S) (Print): <b>Heather Buckingham</b>		CONSULTANT PROJECT NO: <b>SJ67-50S-1</b>	
TELEPHONE: <b>(408) 826-1873</b>	FAX: <b>(408) 225-8506</b>	E-MAIL: <b>damold@deltaenv.com</b>		LAB USE ONLY	

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

LA - RWQCB REPORT FORMAT  UST AGENCY: \_\_\_\_\_

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ CHECK BOX IF EDD IS NEEDED

REQUESTED ANALYSIS															FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (8260B - 0.5ppb RL)	1BA	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"/> STLC <input type="checkbox"/> TCLP	LUFT5 <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					TEMPERATURE ON RECEIPT C° <b>2</b>
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					
X	X	X			X	X					X					
X	X	X			X	X					X					
X	X	X			X	X					X					

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (8260B - 0.5ppb RL)	1BA	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"/> STLC <input type="checkbox"/> TCLP	LUFT5 <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	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																			
	B-11@5'	11/15/05	9:03	soil	1	X	X	X			X	X						X				
	B-11@10'	11/14/05	3:15	soil	1	X	X	X			X	X						X				
	B-11@15'	11/14/05	3:19	soil	1	X	X	X			X	X						X				
	B-11@20'	11/14/05	3:27	soil	1	X	X	X			X	X						X				
	B-11@25'	11/14/05	3:35	soil	1	X	X	X			X	X						X				
	B-11@30'	11/14/05	3:43	soil	1	X	X	X			X	X						X				
	B-11@35'	11/14/05	3:50	soil	1	X	X	X			X	X						X				
	B-11@40'	11/14/05	4:00	soil	1	X	X	X			X	X						X				
	B-11@45'	11/14/05	4:12	soil	1	X	X	X			X	X						X				
	B-7@24.5'	11/15/05	9:35	soil	1	X	X	X			X	X						X				

Retrieved by: (Signature) <i>Heather B...</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>11/16/05</b>	Time: <b>1129</b>
Retrieved by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>11/16/05</b>	Time: <b>1825</b>
Retrieved by: (Signature)	Received by: (Signature)	Date:	Time:

114598

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Shell Project Manager to be invoiced:

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Denis Brown

2005-11-0220

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11-15-04

PAGE: 36 of 6

SAMPLING COMPANY <b>Delta Environmental Consultants</b>		LOG CODE	SITE ADDRESS (Street and City) <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO. <b>T0600102532</b>
ADDRESS <b>175 Bernal Rd Suite 200 San Jose, CA 95119</b>		EDF DELIVERABLE TO (Responsible Party or Designer)	PHONE NO. <b>(408) 826-1866</b>	E-MAIL <b>hbuckinghami@deltacnv.com</b>	CONSULTANT PROJECT NO. <b>SJ67-50S-1</b>
PROJECT CONTACT (Hardcopy or PDF Report to) <b>Debbie Arnold</b>		SAMPLER NAME(S) (Print): <b>Heather Buckingham</b>			LAB USE ONLY
TELEPHONE <b>(408) 826-1873</b>	FAX <b>(408) 225-8506</b>	E-MAIL <b>darnold@deltacnv.com</b>			

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 EDO IS NEEDED

EDB by Method 504.1

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (8260B - 0.5ppb RL)	IBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead X Total <input type="checkbox"/> BTLC <input type="checkbox"/> TCLP	LUFT5 <input type="checkbox"/> Total <input type="checkbox"/> BTLC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> BTLC <input type="checkbox"/> TCLP	Test for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT C	
		DATE	TIME																				
	B-1	11/14/05	10:50	water	6	X	X	X			X	X										EDB by 504.1	2
	B-4	11/14/05	10:45	water	6	X	X	X			X	X										EDB by 504.1	
	B-7	11/15/05	1:39	water	6	X	X	X			X	X										EDB by 504.1	
	B-11	11/14/05	4:50	water	6	X	X	X			X	X										EDB by 504.1	

Relinquished by: (Signature) <i>Heather B...</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11/16/04	Time: 1129
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11/16/05	Time: 1825
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:



**Delta Env. Consultants San Jose**

December 07, 2005

175 Bernal Road, Suite 200  
San Jose, CA 95119

Attn.: Debbie Arnold

Project#: SJ67-50S-1

Project: 97464711

Site: 6750 Santa Rita Road, Pleasanton

Dear Ms. Arnold:

Attached is our report for your samples received on 11/17/2005 14:44

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 01/01/2006 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](mailto: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) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-2@5`	11/11/2005 10:26	Soil	1
B-2@10`	11/16/2005 08:36	Soil	2
B-2@15`	11/16/2005 08:41	Soil	3
B-2@20`	11/16/2005 08:47	Soil	4
B-2@25`	11/16/2005 08:56	Soil	5
B-5@5`	11/11/2005 09:54	Soil	6
B-5@10`	11/16/2005 09:32	Soil	7
B-5@15`	11/16/2005 09:39	Soil	8
B-9@5`	11/11/2005 11:32	Soil	9
B-9@10`	11/16/2005 10:17	Soil	10
B-9@15`	11/16/2005 10:24	Soil	11
B-10@5`	11/11/2005 11:23	Soil	12
B-10@10`	11/16/2005 11:09	Soil	13
B-10@15`	11/16/2005 11:13	Soil	14

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-2@5</b>	Lab ID:	2005-11-0232 - 1
Sampled:	11/11/2005 10:26	Extracted:	11/23/2005 08:58
Matrix:	Soil	QC Batch#:	2005/11/23-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/23/2005 08:58	
Benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
Toluene	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/23/2005 08:58	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/23/2005 08:58	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
EDB	ND	0.0050	mg/Kg	1.00	11/23/2005 08:58	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	85.0	76-124	%	1.00	11/23/2005 08:58	
Toluene-d8	91.9	75-116	%	1.00	11/23/2005 08:58	

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

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 Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1  
 97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-2@10`	Lab ID:	2005-11-0232 - 2
Sampled:	11/16/2005 08:36	Extracted:	11/23/2005 09:24
Matrix:	Soil	QC Batch#:	2005/11/23-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/23/2005 09:24	
Benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
Toluene	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/23/2005 09:24	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/23/2005 09:24	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
EDB	ND	0.0050	mg/Kg	1.00	11/23/2005 09:24	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	96.2	76-124	%	1.00	11/23/2005 09:24	
Toluene-d8	92.7	75-116	%	1.00	11/23/2005 09:24	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-2@15`	Lab ID: 2005-11-0232 - 3
Sampled: 11/16/2005 08:41	Extracted: 11/23/2005 09:50
Matrix: Soil	QC Batch#: 2005/11/23-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/23/2005 09:50	
Benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
Toluene	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/23/2005 09:50	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/23/2005 09:50	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
EDB	ND	0.0050	mg/Kg	1.00	11/23/2005 09:50	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	93.6	76-124	%	1.00	11/23/2005 09:50	
Toluene-d8	88.3	75-116	%	1.00	11/23/2005 09:50	

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

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San Jose, CA 95119

Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-2@20`</b>	Lab ID:	2005-11-0232 - 4
Sampled:	11/16/2005 08:47	Extracted:	11/23/2005 10:17
Matrix:	Soil	QC Batch#:	2005/11/23-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/23/2005 10:17	
Benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 10:17	
Toluene	ND	0.0050	mg/Kg	1.00	11/23/2005 10:17	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 10:17	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/23/2005 10:17	
tert-Butyl alcohol (TBA)	0.040	0.010	mg/Kg	1.00	11/23/2005 10:17	
Methyl tert-butyl ether (MTBE)	0.068	0.0050	mg/Kg	1.00	11/23/2005 10:17	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/23/2005 10:17	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 10:17	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/23/2005 10:17	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/23/2005 10:17	
EDB	ND	0.0050	mg/Kg	1.00	11/23/2005 10:17	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	87.8	76-124	%	1.00	11/23/2005 10:17	
Toluene-d8	95.6	75-116	%	1.00	11/23/2005 10:17	

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

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 Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1  
 97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-2@25`	Lab ID:	2005-11-0232 - 5
Sampled:	11/16/2005 08:56	Extracted:	11/23/2005 10:43
Matrix:	Soil	QC Batch#:	2005/11/23-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/23/2005 10:43	
Benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 10:43	
Toluene	ND	0.0050	mg/Kg	1.00	11/23/2005 10:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/23/2005 10:43	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/23/2005 10:43	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/23/2005 10:43	
Methyl tert-butyl ether (MTBE)	0.063	0.0050	mg/Kg	1.00	11/23/2005 10:43	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/23/2005 10:43	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/23/2005 10:43	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/23/2005 10:43	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/23/2005 10:43	
EDB	ND	0.0050	mg/Kg	1.00	11/23/2005 10:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	80.9	76-124	%	1.00	11/23/2005 10:43	
Toluene-d8	94.8	75-116	%	1.00	11/23/2005 10:43	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-5@5`	Lab ID: 2005-11-0232 - 6
Sampled: 11/11/2005 09:54	Extracted: 11/24/2005 04:53
Matrix: Soil	QC Batch#: 2005/11/23-2B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/24/2005 04:53	
Benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
Toluene	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/24/2005 04:53	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/24/2005 04:53	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
EDB	ND	0.0050	mg/Kg	1.00	11/24/2005 04:53	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	89.4	76-124	%	1.00	11/24/2005 04:53	
Toluene-d8	96.9	75-116	%	1.00	11/24/2005 04:53	



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

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Project: SJ67-50S-1  
 97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	B-5@10`	Lab ID:	2005-11-0232 - 7
Sampled:	11/16/2005 09:32	Extracted:	11/26/2005 02:30
Matrix:	Soil	QC Batch#:	2005/11/25-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/26/2005 02:30	
Benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
Toluene	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/26/2005 02:30	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/26/2005 02:30	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
EDB	ND	0.0050	mg/Kg	1.00	11/26/2005 02:30	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	109.4	76-124	%	1.00	11/26/2005 02:30	
Toluene-d8	88.7	75-116	%	1.00	11/26/2005 02:30	

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

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>B-5@15`</b>	Lab ID:	2005-11-0232 - 8
Sampled:	11/16/2005 09:39	Extracted:	11/30/2005 04:20
Matrix:	Soil	QC Batch#:	2005/11/29-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/30/2005 04:20	
Benzene	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
Toluene	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/30/2005 04:20	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/30/2005 04:20	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
EDB	ND	0.0050	mg/Kg	1.00	11/30/2005 04:20	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	91.7	76-124	%	1.00	11/30/2005 04:20	
Toluene-d8	92.4	75-116	%	1.00	11/30/2005 04:20	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-9@5`	Lab ID: 2005-11-0232 - 9
Sampled: 11/11/2005 11:32	Extracted: 11/26/2005 01:43
Matrix: Soil	QC Batch#: 2005/11/25-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/26/2005 01:43	
Benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
Toluene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/26/2005 01:43	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/26/2005 01:43	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
EDB	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	117.5	76-124	%	1.00	11/26/2005 01:43	
Toluene-d8	97.2	75-116	%	1.00	11/26/2005 01:43	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road, Suite 200

San Jose, CA 95119

Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-9@10`	Lab ID: 2005-11-0232 - 10
Sampled: 11/16/2005 10:17	Extracted: 11/30/2005 04:46
Matrix: Soil	QC Batch#: 2005/11/29-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/30/2005 04:46	
Benzene	ND	0.0050	mg/Kg	1.00	11/30/2005 04:46	
Toluene	ND	0.0050	mg/Kg	1.00	11/30/2005 04:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/30/2005 04:46	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/30/2005 04:46	
tert-Butyl alcohol (TBA)	0.011	0.010	mg/Kg	1.00	11/30/2005 04:46	
Methyl tert-butyl ether (MTBE)	0.040	0.0050	mg/Kg	1.00	11/30/2005 04:46	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/30/2005 04:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/30/2005 04:46	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/30/2005 04:46	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/30/2005 04:46	
EDB	ND	0.0050	mg/Kg	1.00	11/30/2005 04:46	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	96.6	76-124	%	1.00	11/30/2005 04:46	
Toluene-d8	93.2	75-116	%	1.00	11/30/2005 04:46	

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

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Project: SJ67-50S-1  
 97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-9@15`	Lab ID: 2005-11-0232 - 11
Sampled: 11/16/2005 10:24	Extracted: 11/26/2005 00:56
Matrix: Soil	QC Batch#: 2005/11/25-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/26/2005 00:56	
Benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 00:56	
Toluene	ND	0.0050	mg/Kg	1.00	11/26/2005 00:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 00:56	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/26/2005 00:56	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/26/2005 00:56	
Methyl tert-butyl ether (MTBE)	0.12	0.0050	mg/Kg	1.00	11/26/2005 00:56	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/26/2005 00:56	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 00:56	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/26/2005 00:56	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/26/2005 00:56	
EDB	ND	0.0050	mg/Kg	1.00	11/26/2005 00:56	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	119.8	76-124	%	1.00	11/26/2005 00:56	
Toluene-d8	95.7	75-116	%	1.00	11/26/2005 00:56	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-10@5`	Lab ID: 2005-11-0232 - 12
Sampled: 11/11/2005 11:23	Extracted: 11/25/2005 22:36
Matrix: Soil	QC Batch#: 2005/11/25-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/25/2005 22:36	
Benzene	ND	0.0050	mg/Kg	1.00	11/25/2005 22:36	
Toluene	ND	0.0050	mg/Kg	1.00	11/25/2005 22:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/25/2005 22:36	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/25/2005 22:36	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/25/2005 22:36	
Methyl tert-butyl ether (MTBE)	0.0051	0.0050	mg/Kg	1.00	11/25/2005 22:36	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/25/2005 22:36	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/25/2005 22:36	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/25/2005 22:36	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/25/2005 22:36	
EDB	ND	0.0050	mg/Kg	1.00	11/25/2005 22:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	120.6	76-124	%	1.00	11/25/2005 22:36	
Toluene-d8	105.6	75-116	%	1.00	11/25/2005 22:36	

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

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Phone: (408) 826-1873 Fax: (408) 225-8506

Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-10@10`	Lab ID: 2005-11-0232 - 13
Sampled: 11/16/2005 11:09	Extracted: 11/26/2005 01:20
Matrix: Soil	QC Batch#: 2005/11/25-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/26/2005 01:20	
Benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:20	
Toluene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:20	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/26/2005 01:20	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/26/2005 01:20	
Methyl tert-butyl ether (MTBE)	0.013	0.0050	mg/Kg	1.00	11/26/2005 01:20	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/26/2005 01:20	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 01:20	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/26/2005 01:20	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/26/2005 01:20	
EDB	ND	0.0050	mg/Kg	1.00	11/26/2005 01:20	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	117.8	76-124	%	1.00	11/26/2005 01:20	
Toluene-d8	89.9	75-116	%	1.00	11/26/2005 01:20	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: B-10@15`	Lab ID: 2005-11-0232 - 14
Sampled: 11/16/2005 11:13	Extracted: 11/26/2005 01:43
Matrix: Soil	QC Batch#: 2005/11/25-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	11/26/2005 01:43	
Benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
Toluene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
Total xylenes	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	11/26/2005 01:43	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	11/26/2005 01:43	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
1,2-DCA	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
EDB	ND	0.0050	mg/Kg	1.00	11/26/2005 01:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	117.5	76-124	%	1.00	11/26/2005 01:43	
Toluene-d8	97.2	75-116	%	1.00	11/26/2005 01:43	



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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/23-1A.62**

MB: 2005/11/23-1A.62-019

Date Extracted: 11/23/2005 08:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/23/2005 08:19	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/23/2005 08:19	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/23/2005 08:19	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/23/2005 08:19	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/23/2005 08:19	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/23/2005 08:19	
1,2-DCA	ND	0.0050	mg/Kg	11/23/2005 08:19	
EDB	ND	0.0050	mg/Kg	11/23/2005 08:19	
Benzene	ND	0.0050	mg/Kg	11/23/2005 08:19	
Toluene	ND	0.0050	mg/Kg	11/23/2005 08:19	
Ethyl benzene	ND	0.0050	mg/Kg	11/23/2005 08:19	
Total xylenes	ND	0.0050	mg/Kg	11/23/2005 08:19	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	84.2	76-124	%	11/23/2005 08:19	
Toluene-d8	94.2	75-116	%	11/23/2005 08:19	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/23-2B.62**

MB: 2005/11/23-2B.62-020

Date Extracted: 11/23/2005 21:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/23/2005 21:20	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/23/2005 21:20	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/23/2005 21:20	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/23/2005 21:20	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/23/2005 21:20	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/23/2005 21:20	
1,2-DCA	ND	0.0050	mg/Kg	11/23/2005 21:20	
EDB	ND	0.0050	mg/Kg	11/23/2005 21:20	
Benzene	ND	0.0050	mg/Kg	11/23/2005 21:20	
Toluene	ND	0.0050	mg/Kg	11/23/2005 21:20	
Ethyl benzene	ND	0.0050	mg/Kg	11/23/2005 21:20	
Total xylenes	ND	0.0050	mg/Kg	11/23/2005 21:20	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	92.4	76-124	%	11/23/2005 21:20	
Toluene-d8	99.4	75-116	%	11/23/2005 21:20	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/25-1A.64**

MB: 2005/11/25-1A.64-007

Date Extracted: 11/25/2005 19:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/25/2005 19:07	
Gasoline [Shell]	ND	1.0	mg/Kg	11/25/2005 19:07	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/25/2005 19:07	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/25/2005 19:07	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/25/2005 19:07	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/25/2005 19:07	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/25/2005 19:07	
1,2-DCA	ND	0.0050	mg/Kg	11/25/2005 19:07	
EDB	ND	0.0050	mg/Kg	11/25/2005 19:07	
Benzene	ND	0.0050	mg/Kg	11/25/2005 19:07	
Toluene	ND	0.0050	mg/Kg	11/25/2005 19:07	
Ethyl benzene	ND	0.0050	mg/Kg	11/25/2005 19:07	
Total xylenes	ND	0.0050	mg/Kg	11/25/2005 19:07	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	103.0	76-124	%	11/25/2005 19:07	
Toluene-d8	106.2	75-116	%	11/25/2005 19:07	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/25-1A.69**

MB: 2005/11/25-1A.69-057

Date Extracted: 11/25/2005 23:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/25/2005 23:02	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/25/2005 23:02	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/25/2005 23:02	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/25/2005 23:02	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/25/2005 23:02	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/25/2005 23:02	
1,2-DCA	ND	0.0050	mg/Kg	11/25/2005 23:02	
EDB	ND	0.0050	mg/Kg	11/25/2005 23:02	
Benzene	ND	0.0050	mg/Kg	11/25/2005 23:02	
Toluene	ND	0.0050	mg/Kg	11/25/2005 23:02	
Ethyl benzene	ND	0.0050	mg/Kg	11/25/2005 23:02	
Total xylenes	ND	0.0050	mg/Kg	11/25/2005 23:02	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	110.2	76-124	%	11/25/2005 23:02	
Toluene-d8	97.8	75-116	%	11/25/2005 23:02	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/11/29-2A.62**

MB: 2005/11/29-2A.62-049

Date Extracted: 11/29/2005 20:49

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	11/29/2005 20:49	
Gasoline [Shell]	ND	1.0	mg/Kg	11/29/2005 20:49	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	11/29/2005 20:49	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	11/29/2005 20:49	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	11/29/2005 20:49	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	11/29/2005 20:49	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	11/29/2005 20:49	
1,2-DCA	ND	0.0050	mg/Kg	11/29/2005 20:49	
EDB	ND	0.0050	mg/Kg	11/29/2005 20:49	
Benzene	ND	0.0050	mg/Kg	11/29/2005 20:49	
Toluene	ND	0.0050	mg/Kg	11/29/2005 20:49	
Ethyl benzene	ND	0.0050	mg/Kg	11/29/2005 20:49	
Total xylenes	ND	0.0050	mg/Kg	11/29/2005 20:49	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	89.8	76-124	%	11/29/2005 20:49	
Toluene-d8	95.6	75-116	%	11/29/2005 20:49	

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/11/23-1A.62</b>				
LCS	2005/11/23-1A.62-027		Extracted: 11/23/2005			Analyzed: 11/23/2005 07:27				
LCSD	2005/11/23-1A.62-053		Extracted: 11/23/2005			Analyzed: 11/23/2005 07:53				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0430	0.0402	0.05	86.0	80.4	6.7	65-165	20		
Benzene	0.0456	0.0466	0.05	91.2	93.2	2.2	69-129	20		
Toluene	0.0448	0.0450	0.05	89.6	90.0	0.4	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	424	377	500	84.8	75.4		72-124			
Toluene-d8	463	482	500	92.6	96.4		75-116			

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

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/11/23-2B.62**

LCS 2005/11/23-2B.62-028

Extracted: 11/23/2005

Analyzed: 11/23/2005 20:28

LCSD 2005/11/23-2B.62-054

Extracted: 11/23/2005

Analyzed: 11/23/2005 20:54

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0524	0.0435	0.05	104.8	87.0	18.6	65-165	20		
Benzene	0.0430	0.0411	0.05	86.0	82.2	4.5	69-129	20		
Toluene	0.0525	0.0502	0.05	105.0	100.4	4.5	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	483	426	500	96.6	85.2		76-124			
Toluene-d8	516	506	500	103.2	101.2		75-116			

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

Delta Env. Consultants San Jose

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>	<b>Soil</b>	<b>QC Batch # 2005/11/25-1A.64</b>	
LCS 2005/11/25-1A.64-025	Extracted: 11/25/2005	Analyzed: 11/25/2005 18:25	
LCSD 2005/11/25-1A.64-042	Extracted: 11/26/2005	Analyzed: 11/26/2005 00:42	

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0501	0.0568	0.05	100.2	113.6	12.5	65-165	20		
Benzene	0.0477	0.0490	0.05	95.4	98.0	2.7	69-129	20		
Toluene	0.0490	0.0530	0.05	98.0	106.0	7.8	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	529	572	500	105.8	114.4		76-124			
Toluene-d8	530	562	500	106.0	112.4		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  
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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>	<b>Soil</b>	<b>QC Batch # 2005/11/25-1A.69</b>	
LCS 2005/11/25-1A.69-055	Extracted: 11/25/2005	Analyzed: 11/25/2005 22:17	
LCSD 2005/11/25-1A.69-056	Extracted: 11/25/2005	Analyzed: 11/25/2005 22:40	

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0573	0.0593	0.05	114.6	118.6	3.4	65-165	20		
Benzene	0.0513	0.0528	0.05	102.6	105.6	2.9	69-129	20		
Toluene	0.0564	0.0538	0.05	112.8	107.6	4.7	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	494	496	500	98.8	99.2		76-124			
Toluene-d8	502	499	500	100.4	99.8		75-116			

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

Delta Env. Consultants San Jose  
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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>		<b>Soil</b>	<b>QC Batch # 2005/11/29-2A.62</b>
LCS	2005/11/29-2A.62-057	Extracted: 11/29/2005	Analyzed: 11/29/2005 19:57
LCSD	2005/11/29-2A.62-023	Extracted: 11/29/2005	Analyzed: 11/29/2005 20:23

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0485	0.0504	0.05	97.0	100.8	3.8	65-165	20		
Benzene	0.0509	0.0454	0.05	101.8	90.8	11.4	69-129	20		
Toluene	0.0502	0.0447	0.05	100.4	89.4	11.6	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	397	441	500	79.4	88.2		76-124			
Toluene-d8	471	474	500	94.2	94.8		75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B	Test(s): 8260B	
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/23-2B.62</b>
B-5@5` >> MS		Lab ID: 2005-11-0232 - 006
MS: 2005/11/23-2B.62-068	Extracted: 11/24/2005	Analyzed: 11/24/2005 04:00
		Dilution: 1.00
MSD: 2005/11/23-2B.62-027	Extracted: 11/24/2005	Analyzed: 11/24/2005 04:27
		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	0.0488	0.0424	ND	0.049900	97.8	90.1	8.2	65-165	20		
Benzene	0.0522	0.0473	ND	0.049900	104.6	100.5	4.0	69-129	20		
Toluene	0.0512	0.0445	ND	0.049900	102.6	94.5	8.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	403	420		500	80.6	84.0		76-124			
Toluene-d8	489	485		500	97.8	97.0		75-116			

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

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/25-1A.64</b>	
MS/MSD	Lab ID: 2005-11-0237 - 011		
MS: 2005/11/25-1A.64-023	Extracted: 11/26/2005	Analyzed: 11/26/2005	
		Dilution: 1.00	
MSD: 2005/11/25-1A.64-021	Extracted: 11/26/2005	Analyzed: 11/26/2005 00:21	
		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	0.0464	0.0473	ND	0.048543	95.6	94.6	1.2	65-165	20		
Benzene	0.0433	0.0456	ND	0.048543	89.2	91.2	2.1	69-129	20		
Toluene	0.0454	0.0494	ND	0.048543	93.5	98.8	5.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	549	559		500	109.8	111.8		76-124			
Toluene-d8	581	577		500	116.2	115.4		75-116		S7	

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

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/11/25-1A.69**

MS/MSD

Lab ID: 2005-11-0220 - 046

MS: 2005/11/25-1A.69-030

Extracted: 11/26/2005

Analyzed: 11/26/2005 02:54

Dilution: 1.00

MSD: 2005/11/25-1A.69-054

Extracted: 11/26/2005

Analyzed: 11/26/2005 02:54

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	0.0534	0.0498	ND	0.046382	115.1	99.8	14.2	65-165	20		
Benzene	0.0439	0.0444	ND	0.046382	94.6	89.0	6.1	69-129	20		
Toluene	0.0429	0.0421	ND	0.046382	92.5	84.4	9.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	526	520		500	105.2	104.0		76-124			
Toluene-d8	489	488		500	97.8	97.6		75-116			

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

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/29-2A.62</b>	
MS/MSD	Lab ID: 2005-11-0243 - 001		
MS: 2005/11/29-2A.62-050	Extracted: 11/29/2005	Analyzed: 11/29/2005 21:50	
		Dilution: 1.00	
MSD: 2005/11/29-2A.62-016	Extracted: 11/29/2005	Analyzed: 11/29/2005 22:16	
		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	0.0592	0.0502	0.00514	0.049212	109.8	90.1	19.8	65-165	20		
Benzene	0.0615	0.0508	ND	0.049212	125.0	101.6	20.7	69-129	20		R1
Toluene	0.0555	0.0473	ND	0.049212	112.8	94.6	17.6	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	468	448		500	93.6	89.6		76-124			
Toluene-d8	525	532		500	105.0	106.4		75-116			

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

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Legend and Notes**

**Result Flag**

.

-

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-2@5`	11/11/2005 10:26	Soil	1
B-2@10`	11/16/2005 08:36	Soil	2
B-2@15`	11/16/2005 08:41	Soil	3
B-2@20`	11/16/2005 08:47	Soil	4
B-2@25`	11/16/2005 08:56	Soil	5
B-5@5`	11/11/2005 09:54	Soil	6
B-5@10`	11/16/2005 09:32	Soil	7
B-5@15`	11/16/2005 09:39	Soil	8
B-9@5`	11/11/2005 11:32	Soil	9
B-9@10`	11/16/2005 10:17	Soil	10
B-9@15`	11/16/2005 10:24	Soil	11
B-10@5`	11/11/2005 11:23	Soil	12
B-10@10`	11/16/2005 11:09	Soil	13
B-10@15`	11/16/2005 11:13	Soil	14



**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-2@5`</b>	Lab ID: 2005-11-0232 - 1
Sampled: 11/11/2005 10:26	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.6	1.0	mg/Kg	1.00	12/02/2005 21:28	

**Total Lead**

Delta Env. Consultants San Jose

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3050B	Test(s):	6010B
Sample ID:	<b>B-2@10`</b>	Lab ID:	2005-11-0232 - 2
Sampled:	11/16/2005 08:36	Extracted:	12/2/2005 15:31
Matrix:	Soil	QC Batch#:	2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.5	1.0	mg/Kg	1.00	12/02/2005 21:32	

**Total Lead**

Delta Env. Consultants San Jose  
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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-2@15`</b>	Lab ID: 2005-11-0232 - 3
Sampled: 11/16/2005 08:41	Extracted: 12/2/2005 15:31
Matrix: Soil	QC Batch#: 2005/12/02-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.8	1.0	mg/Kg	1.00	12/02/2005 21:36	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-2@20`</b>	Lab ID: 2005-11-0232 - 4
Sampled: 11/16/2005 08:47	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.4	1.0	mg/Kg	1.00	12/05/2005 18:08	

**Total Lead**

Delta Env. Consultants San Jose  
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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-2@25`</b>	Lab ID: 2005-11-0232 - 5
Sampled: 11/16/2005 08:56	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.3	1.0	mg/Kg	1.00	12/05/2005 18:20	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-5@5`</b>	Lab ID: 2005-11-0232 - 6
Sampled: 11/11/2005 09:54	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.7	1.0	mg/Kg	1.00	12/05/2005 18:23	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-5@10`</b>	Lab ID: 2005-11-0232 - 7
Sampled: 11/16/2005 09:32	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.4	1.0	mg/Kg	1.00	12/05/2005 18:27	

**Total Lead**

Delta Env. Consultants San Jose

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-5@15`</b>	Lab ID: 2005-11-0232 - 8
Sampled: 11/16/2005 09:39	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.8	1.0	mg/Kg	1.00	12/05/2005 18:31	



**Total Lead**

Delta Env. Consultants San Jose

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3050B	Test(s):	6010B
Sample ID:	<b>B-9@5`</b>	Lab ID:	2005-11-0232 - 9
Sampled:	11/11/2005 11:32	Extracted:	12/5/2005 09:15
Matrix:	Soil	QC Batch#:	2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.9	1.0	mg/Kg	1.00	12/05/2005 18:41	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-9@10`</b>	Lab ID: 2005-11-0232 - 10
Sampled: 11/16/2005 10:17	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.9	1.0	mg/Kg	1.00	12/05/2005 18:45	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-9@15`</b>	Lab ID: 2005-11-0232 - 11
Sampled: 11/16/2005 10:24	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.3	1.0	mg/Kg	1.00	12/05/2005 18:49	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-10@5`</b>	Lab ID: 2005-11-0232 - 12
Sampled: 11/11/2005 11:23	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.8	1.0	mg/Kg	1.00	12/05/2005 18:53	

**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3050B	Test(s):	6010B
Sample ID:	<b>B-10@10`</b>	Lab ID:	2005-11-0232 - 13
Sampled:	11/16/2005 11:09	Extracted:	12/5/2005 09:15
Matrix:	Soil	QC Batch#:	2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.1	1.0	mg/Kg	1.00	12/05/2005 18:56	

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>B-10@15`</b>	Lab ID: 2005-11-0232 - 14
Sampled: 11/16/2005 11:13	Extracted: 12/5/2005 09:15
Matrix: Soil	QC Batch#: 2005/12/05-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	6.0	1.0	mg/Kg	1.00	12/05/2005 19:00	

**Total Lead**

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 3050B

**Method Blank**

MB: 2005/12/02-01.15-001

**Soil**

Test(s): 6010B

**QC Batch # 2005/12/02-01.15**

Date Extracted: 12/02/2005 15:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	12/02/2005 19:44	

**Total Lead**

Delta Env. Consultants San Jose  
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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 3050B Test(s): 6010B  
**Method Blank** **Soil** **QC Batch # 2005/12/05-01.15**  
 MB: 2005/12/05-01.15-011 Date Extracted: 12/05/2005 09:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	12/05/2005 17:57	



**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3050B						Test(s): 6010B				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/12/02-01.15</b>				
LCS	2005/12/02-01.15-002		Extracted: 12/02/2005			Analyzed: 12/02/2005 19:47				
LCSD	2005/12/02-01.15-003		Extracted: 12/02/2005			Analyzed: 12/02/2005 19:51				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	92.4	94.5	100.0	92.4	94.5	2.2	80-120	20		

**Total Lead**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3050B							Test(s): 6010B			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/12/05-01.15</b>				
LCS	2005/12/05-01.15-012		Extracted: 12/05/2005			Analyzed: 12/05/2005 18:00				
LCSD	2005/12/05-01.15-013		Extracted: 12/05/2005			Analyzed: 12/05/2005 18:04				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	105	103	100.0	105.0	103.0	1.9	75-125	20		

**Diesel (C9-C24)**

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Project: SJ67-50S-1

97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
B-2@5`	11/11/2005 10:26	Soil	1
B-2@10`	11/16/2005 08:36	Soil	2
B-2@15`	11/16/2005 08:41	Soil	3
B-2@20`	11/16/2005 08:47	Soil	4
B-2@25`	11/16/2005 08:56	Soil	5
B-5@5`	11/11/2005 09:54	Soil	6
B-5@10`	11/16/2005 09:32	Soil	7
B-5@15`	11/16/2005 09:39	Soil	8
B-9@5`	11/11/2005 11:32	Soil	9
B-9@10`	11/16/2005 10:17	Soil	10
B-9@15`	11/16/2005 10:24	Soil	11
B-10@5`	11/11/2005 11:23	Soil	12
B-10@10`	11/16/2005 11:09	Soil	13
B-10@15`	11/16/2005 11:13	Soil	14

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-2@5`</b>	Lab ID: 2005-11-0232 - 1
Sampled: 11/11/2005 10:26	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 17:29	
<b>Surrogate(s)</b> o-Terphenyl	73.7	60-130	%	1.00	11/23/2005 17:29	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-2@10`</b>	Lab ID: 2005-11-0232 - 2
Sampled: 11/16/2005 08:36	Extracted: 11/30/2005 12:53
Matrix: Soil	QC Batch#: 2005/11/30-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	86	5.0	mg/Kg	5.00	12/02/2005 06:35	ldr
<b>Surrogate(s)</b> o-Terphenyl	NA	60-130	%	5.00	12/02/2005 06:35	S3

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-2@15`</b>	Lab ID: 2005-11-0232 - 3
Sampled: 11/16/2005 08:41	Extracted: 11/30/2005 12:53
Matrix: Soil	QC Batch#: 2005/11/30-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/02/2005 23:41	
<b>Surrogate(s)</b> o-Terphenyl	73.2	60-130	%	1.00	12/02/2005 23:41	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-2@20`</b>	Lab ID:	2005-11-0232 - 4
Sampled:	11/16/2005 08:47	Extracted:	11/30/2005 12:53
Matrix:	Soil	QC Batch#:	2005/11/30-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/03/2005 00:07	
<b>Surrogate(s)</b> o-Terphenyl	72.6	60-130	%	1.00	12/03/2005 00:07	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-2@25`</b>	Lab ID: 2005-11-0232 - 5
Sampled: 11/16/2005 08:56	Extracted: 11/30/2005 12:53
Matrix: Soil	QC Batch#: 2005/11/30-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.3	1.0	mg/Kg	1.00	12/02/2005 13:20	ldr
<b>Surrogate(s)</b> o-Terphenyl	76.7	60-130	%	1.00	12/02/2005 13:20	



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-5@5`</b>	Lab ID: 2005-11-0232 - 6
Sampled: 11/11/2005 09:54	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.1	1.0	mg/Kg	1.00	11/23/2005 17:55	ndp
<b>Surrogate(s)</b> o-Terphenyl	69.3	60-130	%	1.00	11/23/2005 17:55	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-5@10`</b>	Lab ID:	2005-11-0232 - 7
Sampled:	11/16/2005 09:32	Extracted:	11/30/2005 12:53
Matrix:	Soil	QC Batch#:	2005/11/30-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.7	1.0	mg/Kg	1.00	12/02/2005 13:47	ndp
<b>Surrogate(s)</b> o-Terphenyl	78.5	60-130	%	1.00	12/02/2005 13:47	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-5@15`</b>	Lab ID: 2005-11-0232 - 8
Sampled: 11/16/2005 09:39	Extracted: 11/30/2005 12:53
Matrix: Soil	QC Batch#: 2005/11/30-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/02/2005 18:00	
<b>Surrogate(s)</b> o-Terphenyl	72.9	60-130	%	1.00	12/02/2005 18:00	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>B-9@5`</b>	Lab ID:	2005-11-0232 - 9
Sampled:	11/11/2005 11:32	Extracted:	11/23/2005 10:40
Matrix:	Soil	QC Batch#:	2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 18:35	
<b>Surrogate(s)</b> o-Terphenyl	46.7	60-130	%	1.00	11/23/2005 18:35	S8

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-9@10`</b>	Lab ID: 2005-11-0232 - 10
Sampled: 11/16/2005 10:17	Extracted: 11/30/2005 12:53
Matrix: Soil	QC Batch#: 2005/11/30-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/04/2005 02:33	
<b>Surrogate(s)</b> o-Terphenyl	62.2	60-130	%	1.00	12/04/2005 02:33	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-9@15`</b>	Lab ID: 2005-11-0232 - 11
Sampled: 11/16/2005 10:24	Extracted: 12/1/2005 18:09
Matrix: Soil	QC Batch#: 2005/12/01-04.10
Analysis Flag: H1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/02/2005 13:37	
<b>Surrogate(s)</b> o-Terphenyl	67.8	60-130	%	1.00	12/02/2005 13:37	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-10@5`</b>	Lab ID: 2005-11-0232 - 12
Sampled: 11/11/2005 11:23	Extracted: 11/23/2005 10:40
Matrix: Soil	QC Batch#: 2005/11/23-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	11/23/2005 19:02	
<b>Surrogate(s)</b> o-Terphenyl	44.1	60-130	%	1.00	11/23/2005 19:02	S8

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-10@10`</b>	Lab ID: 2005-11-0232 - 13
Sampled: 11/16/2005 11:09	Extracted: 12/1/2005 18:09
Matrix: Soil	QC Batch#: 2005/12/01-04.10
Analysis Flag: H1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	320	10	mg/Kg	10.00	12/02/2005 15:23	ldr
<b>Surrogate(s)</b> o-Terphenyl	NA	60-130	%	10.00	12/02/2005 15:23	S3



**Diesel (C9-C24)**

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Project: SJ67-50S-1  
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Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>B-10@15`</b>	Lab ID: 2005-11-0232 - 14
Sampled: 11/16/2005 11:13	Extracted: 12/1/2005 18:09
Matrix: Soil	QC Batch#: 2005/12/01-04.10
Analysis Flag: H1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/02/2005 14:56	
<b>Surrogate(s)</b> o-Terphenyl	70.0	60-130	%	1.00	12/02/2005 14:56	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report					
Prep(s): 3550/8015M		Test(s): 8015M			
<b>Method Blank diesel</b>		<b>Soil</b>		<b>QC Batch # 2005/11/23-01.10</b>	
MB: 2005/11/23-01.10-001		Date Extracted: 11/23/2005 10:40			
Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/23/2005 16:10	
<b>Surrogates(s)</b> o-Terphenyl	73.9	60-130	%	11/23/2005 16:10	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

**Method Blank diesel**

**Soil**

**QC Batch # 2005/11/30-01.10**

MB: 2005/11/30-01.10-001

Date Extracted: 11/30/2005 12:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	12/01/2005 15:50	
<b>Surrogates(s)</b> o-Terphenyl	76.2	60-130	%	12/01/2005 15:50	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

**Batch QC Report**

Prep(s): 3550/8015M Test(s): 8015M  
**Method Blank diesel** **Soil** **QC Batch # 2005/12/01-04.10**  
 MB: 2005/12/01-04.10-001 Date Extracted: 12/01/2005 18:09

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	12/02/2005 12:19	
<b>Surrogates(s)</b> o-Terphenyl	74.6	60-130	%	12/02/2005 12:19	

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3550/8015M						Test(s): 8015M				
<b>Laboratory Control Spike diesel</b>			<b>Soil</b>			<b>QC Batch # 2005/11/23-01.10</b>				
LCS	2005/11/23-01.10-002		Extracted: 11/23/2005			Analyzed: 11/23/2005 16:36				
LCSD	2005/11/23-01.10-003		Extracted: 11/23/2005			Analyzed: 11/23/2005 17:02				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	32.1	34.0	41.5	77.3	82.3	6.3	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	17.4	17.0	20.0	87.2	84.9		60-130	0		

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report										
Prep(s): 3550/8015M							Test(s): 8015M			
<b>Laboratory Control Spike diesel</b>				<b>Soil</b>			<b>QC Batch # 2005/11/30-01.10</b>			
LCS	2005/11/30-01.10-002			Extracted: 11/30/2005			Analyzed: 12/01/2005 16:18			
LCSD	2005/11/30-01.10-003			Extracted: 11/30/2005			Analyzed: 12/01/2005 16:45			
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	30.3	31.6	41.5	73.0	76.3	4.4	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	16.2	16.7	20.0	80.9	83.3		60-130	0		

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 3550/8015M		Test(s): 8015M	
<b>Laboratory Control Spike diesel</b>		<b>Soil</b>	<b>QC Batch # 2005/12/01-04.10</b>
LCS	2005/12/01-04.10-002	Extracted: 12/01/2005	Analyzed: 12/02/2005 12:45
LCSD	2005/12/01-04.10-003	Extracted: 12/01/2005	Analyzed: 12/02/2005 13:11

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	32.8	33.1	41.6	78.8	79.8	1.3	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	16.5	16.5	20.0	82.6	82.6		60-130	0		

**Diesel (C9-C24)**

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Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 3550/8015M	Test(s): 8015M		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/23-01.10</b>	
MS/MSD		Lab ID:	2005-11-0220 - 016
MS: 2005/11/23-01.10-004	Extracted: 11/23/2005	Analyzed:	11/23/2005 19:54
		Dilution:	1.00
MSD: 2005/11/23-01.10-005	Extracted: 11/23/2005	Analyzed:	11/23/2005 20:20
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	34.7	43.9	2.94	41.5	76.5	98.9	25.5	60-130	25		R1
<b>Surrogate(s)</b> o-Terphenyl	18.4	18.6		20.0	91.9	92.9		60-130	0		



**Diesel (C9-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 3550/8015M	Test(s): 8015M		
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/11/30-01.10</b>	
B-9@5` >> MS		Lab ID:	2005-11-0232 - 009
MS: 2005/11/30-01.10-004	Extracted: 11/30/2005	Analyzed:	12/03/2005 01:00
		Dilution:	1.00
MSD: 2005/11/30-01.10-005	Extracted: 11/30/2005	Analyzed:	12/03/2005 01:26
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	25.4	32.3	ND	41.5	61.2	78.4	24.6	60-130	25		
<b>Surrogate(s)</b> o-Terphenyl	18.6	15.8		20.0	92.8	79.2		60-130	0		

**Diesel (C9-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

Batch QC Report			
Prep(s): 3550/8015M			Test(s): 8015M
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2005/12/01-04.10</b>	
B-9@15` >> MS		Lab ID:	2005-11-0232 - 011
MS: 2005/12/01-04.10-004	Extracted: 12/01/2005	Analyzed:	12/02/2005 14:04
		Dilution:	1.00
MSD: 2005/12/01-04.10-005	Extracted: 12/01/2005	Analyzed:	12/02/2005 14:30
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	31.1	30.9	ND	41.5	74.9	74.6	0.4	60-130	25		
<b>Surrogate(s)</b> o-Terphenyl	16.0	15.1		20.0	79.8	75.7		60-130	0		

## Diesel (C9-C24)

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 11/17/2005 14:44

Site: 6750 Santa Rita Road, Pleasanton

### Legend and Notes

#### Analysis Flag

H1  
Extracted out of holding time.

#### Result Flag

ldr  
Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard

ndp  
Hydrocarbon reported does not match the pattern of our Diesel standard

R1  
Analyte RPD was out of QC limits.

S3  
Surrogate recovery not reportable due to required dilution.

S8  
Surrogate recoveries lower than acceptance limits.

# SHELL Chain Of Custody Record

114644

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

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

2005-11-0232

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11-17-04

PAGE: 1 of 2

SAMPLING COMPANY:  
**Delta Environmental Consultants**

LOG CODE:

SITE ADDRESS (Street and City):

6750 Santa Rita Road, Pleasanton

GLOBAL ID NO:

T0600102532

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

EDP DELIVERABLE TO (Responsible Party or Designer)

PHONE NO:

(408) 826-1866

E-MAIL:

hbuckingham@deltaenv.com

CONSULTANT PROJECT NO:

SJ67-50S-1

PROJECT CONTACT (Hardcopy or PDF Report to):

Debbie Arnold

TELEPHONE:

(408) 826-1873

FAX:

(408) 225-8506

E-MAIL:

damold@deltaenv.com

SAMPLER NAME(S) (Print): Heather Buckingham

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):

10 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED

## REQUESTED ANALYSIS

TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (8260B - 0.5ppb RL)	IBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFTS <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			
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			
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 C°

2

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
1	B-2@5'	11/11/05	10:26	soil	1
2	B-2@10'	11/16/05	8:36	soil	1
3	B-2@15'	11/16/05	8:41	soil	1
4	B-2@20'	11/16/05	8:47	soil	1
5	B-2@25'	11/16/05	8:56	soil	1
6	B-5@5'	11/11/05	9:54	soil	1
7	B-5@10'	11/16/05	9:32	soil	1
8	B-5@15'	11/16/05	9:39	soil	1
9	B-9@5'	11/11/05	11:32	soil	1
10	B-9@10'	11/16/05	10:17	soil	1

Retrieved by: (Signature)  
*Heather Big*  
Retrieved by: (Signature)  
*[Signature]*  
Retrieved by: (Signature)  
*[Signature]*

Received by: (Signature)  
*[Signature]*  
Received by: (Signature)  
*[Signature]*  
Received by: (Signature)  
*[Signature]*

Date: 11/17/05 Time: 1444  
Date: 11/17/05 Time: 1925

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

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

2005-11-0232

INCIDENT NUMBER (S&E ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11-17-04

PAGE: 2 of 2

SAMPLING COMPANY: <b>Delta Environmental Consultants</b>		LOG CODE:	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO.: <b>T0600102532</b>
ADDRESS: <b>175 Bernal Rd Suite 200 San Jose, CA 95119</b>		EDF DELIVERABLE TO (Responsible Party or Designer):		PHONE NO.: <b>(408) 826-1866</b>	E-MAIL: <b>hbuckingham@deltaenv.com</b>
PROJECT CONTACT (Hardcopy or PDF Reports): <b>Debbie Arnold</b>		CONSULTANT PROJECT NO.: <b>SJ67-50S-1</b>		SAMPLER NAME(S) (Print): <b>Heather Buckingham</b>	
TELEPHONE: <b>(408) 826-1873</b>	FAX: <b>(408) 225-8506</b>	E-MAIL: <b>darnold@deltaenv.com</b>		LAB USE ONLY	

TURNAROUND TIME (BUSINESS DAYS):  
 10 DAYS  9 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ CHECK BOX IF EDD IS NEEDED

REQUESTED ANALYSIS

TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE (8260B - 0.5ppb RL)	IBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT5 <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			
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: 2

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
11	B-9@15'	11/16/05	10:24	soil	1
12	B-10@5'	11/11/05	11:23	soil	1
13	B-10@10'	11/16/05	11:09	soil	1
14	B-10@15'	11/16/05	11:13	soil	1

Requisitioned by: (Signature) <i>Debbie B...</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11/17/04	Time: 1444
Requisitioned by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 11/17/05	Time: 1925
Requisitioned by: (Signature)	Received by: (Signature)	Date:	Time:



19 December, 2005

Michael Ninokata  
Blaine Tech Services - San Jose (Shell)  
1680 Rogers Avenue  
San Jose, CA 95112

RE: 6750 Santa Rita Rd., Pleasanton  
Work Order: MOL0452

Enclosed are the results of analyses for samples received by the laboratory on 12/08/05 13:34. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen  
Project Manager

CA ELAP Certificate #1210

Blaine Tech Services - San Jose (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project:6750 Santa Rita Rd., Pleasanton Project Number:97464711 Project Manager:Michael Ninokata	MOL0452 <b>Reported:</b> 12/19/05 16:14
---	--	---

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6	MOL0452-01	Water	12/07/05 15:26	12/08/05 13:34
MW-7	MOL0452-02	Water	12/07/05 14:13	12/08/05 13:34

Blaine Tech Services - San Jose (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project:6750 Santa Rita Rd., Pleasanton  
Project Number:97464711  
Project Manager:Michael Ninokata

MOL0452  
**Reported:**  
12/19/05 16:14

**EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1)**

**Del Mar Analytical, Colton**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MOL0452-01) Water Sampled: 12/07/05 15:26 Received: 12/08/05 13:34</b>									
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	C5L1521	12/15/05	12/16/05	EPA 504.1	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>122 %</i>	<i>65-170</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<b>MW-7 (MOL0452-02) Water Sampled: 12/07/05 14:13 Received: 12/08/05 13:34</b>									
1,2-Dibromoethane (EDB)	ND	0.020	ug/l	1	C5L1521	12/15/05	12/16/05	EPA 504.1	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>124 %</i>	<i>65-170</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	



Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project: 6750 Santa Rita Rd., Pleasanton  
 Project Number: 97464711  
 Project Manager: Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

### Extractable Hydrocarbons by EPA 8015B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MOL0452-01) Water    Sampled: 12/07/05 15:26    Received: 12/08/05 13:34</b>									
<b>Diesel Range Organics (C10-C28)</b>	<b>130</b>	47	ug/l	1	5L12007	12/12/05	12/13/05	EPA 8015B-SVOA	HC-12
<i>Surrogate: n-Octacosane</i>		83 %	34-123		"	"	"	"	
<b>MW-7 (MOL0452-02) Water    Sampled: 12/07/05 14:13    Received: 12/08/05 13:34</b>									
<b>Diesel Range Organics (C10-C28)</b>	<b>190</b>	49	ug/l	1	5L12007	12/12/05	12/13/05	EPA 8015B-SVOA	HC-12
<i>Surrogate: n-Octacosane</i>		74 %	34-123		"	"	"	"	

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-6 (MOL0452-01) Water Sampled: 12/07/05 15:26 Received: 12/08/05 13:34</b>									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L15027	12/15/05	12/15/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>112 %</i>	<i>60-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<b>MW-7 (MOL0452-02) Water Sampled: 12/07/05 14:13 Received: 12/08/05 13:34</b>									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	5L15027	12/15/05	12/15/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>114 %</i>	<i>60-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

**EDB AND DBCP IN WATER BY GC/ECD (EPA 504.1) - Quality Control**  
**Del Mar Analytical, Colton**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch C5L1521 - EPA 505 / EPA 504.1**
**Blank (C5L1521-BLK1)**

Prepared &amp; Analyzed: 12/15/05

1,2-Dibromoethane (EDB)	ND	0.020	ug/l							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.26</i>		<i>"</i>	<i>5.00</i>		<i>125</i>	<i>65-170</i>			

**Laboratory Control Sample (C5L1521-BS1)**

Prepared &amp; Analyzed: 12/15/05

1,2-Dibromoethane (EDB)	0.266	0.020	ug/l	0.250		106	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.42</i>		<i>"</i>	<i>5.00</i>		<i>128</i>	<i>65-170</i>			

**Laboratory Control Sample Dup (C5L1521-BSD1)**

Prepared: 12/15/05 Analyzed: 12/16/05

1,2-Dibromoethane (EDB)	0.116	0.020	ug/l	0.100		116	70-130	9	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.55</i>		<i>"</i>	<i>5.00</i>		<i>131</i>	<i>65-170</i>			

**Matrix Spike (C5L1521-MS1)**

Source: COL0331-01

Prepared &amp; Analyzed: 12/15/05

1,2-Dibromoethane (EDB)	0.233	0.020	ug/l	0.244	ND	95	60-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>6.12</i>		<i>"</i>	<i>4.89</i>		<i>125</i>	<i>65-170</i>			

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

### Extractable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 5L12007 - EPA 3510C / EPA 8015B-SVOA**
**Blank (5L12007-BLK1)**

Prepared: 12/12/05 Analyzed: 12/13/05

Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: <i>n</i> -Octacosane	43.1		"	50.0		86	34-123			

**Laboratory Control Sample (5L12007-BS1)**

Prepared: 12/12/05 Analyzed: 12/13/05

Diesel Range Organics (C10-C28)	370	50	ug/l	500		74	51-128			
Surrogate: <i>n</i> -Octacosane	41.3		"	50.0		83	34-123			

**Matrix Spike (5L12007-MS1)**
**Source: MOL0334-01**

Prepared: 12/12/05 Analyzed: 12/13/05

Diesel Range Organics (C10-C28)	376	48	ug/l	481	54	67	51-128			
Surrogate: <i>n</i> -Octacosane	42.5		"	48.1		88	34-123			

**Matrix Spike Dup (5L12007-MSD1)**
**Source: MOL0334-01**

Prepared: 12/12/05 Analyzed: 12/13/05

Diesel Range Organics (C10-C28)	435	48	ug/l	481	54	79	51-128	15	27	
Surrogate: <i>n</i> -Octacosane	42.7		"	48.1		89	34-123			

Blaine Tech Services - San Jose (Shell)  
 1680 Rogers Avenue  
 San Jose CA, 95112

 Project:6750 Santa Rita Rd., Pleasanton  
 Project Number:97464711  
 Project Manager:Michael Ninokata

 MOL0452  
**Reported:**  
 12/19/05 16:14

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 5L15027 - EPA 5030B P/T / EPA 8260B**
**Blank (5L15027-BLK1)**

Prepared &amp; Analyzed: 12/15/05

Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.68		"	2.50		107	60-135			

**Laboratory Control Sample (5L15027-BS1)**

Prepared &amp; Analyzed: 12/15/05

Gasoline Range Organics (C4-C12)	474	50	ug/l	440		108	60-140			
Benzene	4.48	0.50	"	5.16		87	65-115			
Toluene	33.8	0.50	"	37.2		91	85-120			
Ethylbenzene	6.68	0.50	"	7.54		89	75-135			
Xylenes (total)	38.0	0.50	"	41.2		92	85-125			
Methyl tert-butyl ether	7.89	0.50	"	7.02		112	65-125			
Di-isopropyl ether	16.4	0.50	"	15.1		109	75-125			
Ethyl tert-butyl ether	16.5	0.50	"	15.0		110	75-130			
tert-Amyl methyl ether	16.2	0.50	"	15.0		108	80-115			
tert-Butyl alcohol	145	5.0	"	143		101	75-150			
1,2-Dichloroethane	15.1	0.50	"	14.7		103	85-130			
Ethanol	126	100	"	142		89	70-135			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	2.57		"	2.50		103	60-135			

Blaine Tech Services - San Jose (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project:6750 Santa Rita Rd., Pleasanton  
Project Number:97464711  
Project Manager:Michael Ninokata

MOL0452  
**Reported:**  
12/19/05 16:14

**Volatile Organic Compounds by EPA Method 8260B - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 5L15027 - EPA 5030B P/T / EPA 8260B**

**Laboratory Control Sample Dup (5L15027-BSD1)**

Prepared & Analyzed: 12/15/05

Gasoline Range Organics (C4-C12)	497	50	ug/l	440		113	60-140	5	25	
Benzene	4.71	0.50	"	5.16		91	65-115	5	20	
Toluene	35.7	0.50	"	37.2		96	85-120	5	20	
Ethylbenzene	7.11	0.50	"	7.54		94	75-135	6	15	
Xylenes (total)	40.2	0.50	"	41.2		98	85-125	6	20	
Methyl tert-butyl ether	8.52	0.50	"	7.02		121	65-125	8	20	
Di-isopropyl ether	17.0	0.50	"	15.1		113	75-125	4	15	
Ethyl tert-butyl ether	17.3	0.50	"	15.0		115	75-130	5	25	
tert-Amyl methyl ether	17.2	0.50	"	15.0		115	80-115	6	15	
tert-Butyl alcohol	167	5.0	"	143		117	75-150	14	25	
1,2-Dichloroethane	15.8	0.50	"	14.7		107	85-130	5	20	
Ethanol	151	100	"	142		106	70-135	18	35	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>2.64</i>		<i>"</i>	<i>2.50</i>		<i>106</i>	<i>60-135</i>			

Blaine Tech Services - San Jose (Shell)  
1680 Rogers Avenue  
San Jose CA, 95112

Project:6750 Santa Rita Rd., Pleasanton  
Project Number:97464711  
Project Manager:Michael Ninokata

MOL0452  
**Reported:**  
12/19/05 16:14

#### **Notes and Definitions**

HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LAB: Test America Site Other \_\_\_\_\_

# SHELL Chain Of Custody Record

Lab Identification (if necessary):

- TA - Irvine, California
- TA - Morgan Hill, California
- TA - Nashville, Tennessee
- STL
- Other (location) \_\_\_\_\_

Shell Project Manager to be invoiced:

- ENVIRONMENTAL SERVICES
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

NOT FOR ENV. REMEDIATION - NO ETIM - SEND PAPER INVOICE

INCIDENT NUMBER (ES ONLY)

9 7 4 6 4 7 1 1

SAP or CRMT NUMBER (TS/CRMT)

DATE: 12/07/05

PAGE: 1 of 1

SAMPLING COMPANY: <b>Blaine Tech Services</b>		LOG CODE: <b>BTSS</b>	SITE ADDRESS: Street and City <b>6750 Santa Rita Rd., Pleasanton</b>		State <b>CA</b>	GLOBAL ID NO.: <b>T0600102532</b>	
ADDRESS: <b>1680 Rogers Avenue, San Jose, CA 95112</b>			EDF DELIVERABLE TO (Responsible Party or Designee): <b>Heather Buckingham</b>		PHONE NO.: <b>(408)224-4724</b>		CONSULTANT PROJECT NO.:
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Michael Ninokata</b>			SAMPLER NAME(S) (Print): <b>Justin J. Dennis</b>		E-MAIL: <b>hbuckingham@deltaenv.com</b>		BTS #
TELEPHONE: <b>408-573-0555</b>	FAX: <b>408-573-7771</b>	E-MAIL: <b>mninokata@blainetech.com</b>		<b>LAB USE ONLY</b>			

TURNAROUND TIME (STANDARD IS 10 CALENDAR DAYS):

STD  5 DAY  3 DAY  2 DAY  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

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

*MW-7 only recharged enough to supply IL amber due low water level*

RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

**M020452**

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	EDB (504.1)	TEMPERATURE ON RECEIPT C°	
			DATE	TIME																		
	MW-6	01	12/7/05	1526	W	8	X	X	X	X						X						
	MW-7	02	12/7/05	1413	W	7	X	X	X	X						X						

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

Shipped by: (Signature) 	Received by: (Signature) <b>SAMPLE CUSTODIAN</b>	Date: <u>12/7/05</u>	Time: <u>1640</u>
Shipped by: (Signature) 	Received by: (Signature) 	Date: <u>12/8/05</u>	Time: <u>1255</u>
Shipped by: (Signature) 	Received by: (Signature) <u>Janniphan</u>	Date: <u>12/8/05</u>	Time: <u>1334</u>

Q&G Graphic (714) 868-9702



# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Shell (Test America)  
 REC. BY (PRINT) JT  
 WORKORDER: M66452

DATE REC'D AT LAB: 12/08/05  
 TIME REC'D AT LAB: 1334  
 DATE LOGGED IN: 12-11-05

For Regulatory Purposes?  
 DRINKING WATER YES  NO   
 WASTE WATER YES  NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="checkbox"/> Absent Intact / Broken*	61	<del>EA</del>	MW-6	1L Amber-2	-	-	W	12/7/05	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*	62	<del>EA</del> Sae	MW-7	Voa-6	Hcl	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent			↓	Voa-6	Hcl	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent									
5. Airbill #:									
6. Sample Labels: <input checked="" type="checkbox"/> Present / Absent									
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="checkbox"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / No*									
12. Proper preservatives used? <input checked="" type="checkbox"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="checkbox"/> No*									
14. Read Temp: <u>2.1°C</u> Corrected Temp: <u>2.1°C</u> Is corrected temp 4 +/-2°C? <input checked="" type="checkbox"/> Yes / No**									

JT 12/108/05

\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



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

April 15, 2005  
Project No. SJ67-50S-1.2005

Mr. Bob Schultz  
Alameda County Health Care Services Agency  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Quarterly Groundwater Monitoring and Remediation Status Report – First Quarter 2005  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California**

Dear Mr. Schultz:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following first quarter 2005 groundwater monitoring, sampling, and remediation status report for the above referenced site. Groundwater sampling was performed by Blaine Tech Services (Blaine), at the direction of Delta. A site location map is included as Figure 1.

#### **QUARTERLY GROUND WATER MONITORING PROGRAM**

Groundwater monitoring Wells MW-1 through MW-4 were gauged and sampled by Blaine on January 26, 2005. Newly installed off-site Well MW-5 was gauged and sampled on February 10, 2005. Depth to groundwater was measured in Wells MW-1 through MW-5. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were submitted by Blaine to Severn Trent Laboratories, Inc. in Pleasanton, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); and fuel oxygenates methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert amyl methyl ether (TAME), and tert-butanol (TBA) using EPA Method 8260B. Benzene and MTBE concentrations are presented on Figure 3.

Blaine's groundwater monitoring and sampling report, which includes historical and current groundwater elevation data, historical and current analytical results, and field data records for the current monitoring event, is included as Attachment A.

#### **OFF-SITE WELL INSTALLATION ACTIVITIES**

Based on MTBE (18 microgram per liter) detected in one downgradient water sample collected in December 2003, Delta recommended the installation of downgradient monitoring Well MW-5 in a report titled *Cone Penetration Test (CPT) Groundwater Investigation*, dated March 3, 2004.

On January 26, 2005, Delta supervised the drilling and installation of off-site Well MW-5 by Gregg Drilling and Test, Inc. (Gregg) (C57: 485165). The well was installed under permit from the Zone 7 Water Agency. A copy of the well permit is provided as Attachment B. The proposed boring location for Well MW-5 was surveyed for possible underground utilities by a private utility locating firm and Underground Service Alert (USA). Prior to drilling, the boring was excavated with air-vac equipment to a depth of approximately 7 feet below grade (bg) in order to minimize the risk of damaging shallow underground utilities.

Well MW-5 was installed using 8-inch hollow-stem-augers. Soil samples were collected at 5-foot intervals between 10 feet and 35 feet bg. A Delta field geologist carefully examined the soil samples as they were collected. Soils were classified based on the Unified Soil Classification System using the American Society for Testing and Materials (ASTM) Method D-2487 published in May 2000. Samples were analyzed in the field by a photo-ionization detector (PID) to measure petroleum hydrocarbon concentrations in the soil. PID readings were recorded on the boring log. The boring log, including well construction details, is included as Attachment C.

The boring for Well MW-5 was converted to a groundwater monitoring well by the insertion of 2-inch diameter, schedule 40 polyvinyl chloride (PVC) casing. The well was constructed to a depth of 32 feet bg. The well was screened with a 0.020-inch manufactured well screen between 27 feet and 32 feet bg. A #3 sand pack was installed from the bottom of the well to approximately 1 foot above the top of the well screen. Two feet of bentonite was then placed above the sand pack, and a cement grout seal was then placed to approximately 1 foot bg. A traffic-rated vault box was constructed flush to the ground surface over the well.

On January 31, 2005, Mid Coast Engineers performed a location and elevation survey of Well MW-5. The survey results are included as Attachment D. On February 8, 2005, Blaine developed Well MW-5 utilizing a surge block and positive air displacement pump. Purge water was transported off site for disposal at the Shell refinery in Martinez, California. A Well Development Data Sheet is included in the Blaine report dated March 11, 2005 (Attachment A).

#### **PREVIOUS REMEDIATION SUMMARY**

Monthly batch extraction on Wells MW-2 and MW-3 was initiated during third quarter 2003, and continued through fourth quarter 2003. This remedial action was taken to address the presence of MTBE in groundwater. Over the course of six months, the MTBE concentration in Well MW-3 was lowered from a historic high of 15,000 micrograms per liter (ug/l) to 9,800 ug/l. However, on average, less than 40 gallons of water could be extracted from each well during a two-hour period, and Delta/Shell did not continue monthly groundwater batch extractions during first quarter 2004.

Due to increasing MTBE groundwater concentrations during first and second quarter 2004, Delta/Shell initiated an extended groundwater batch extraction event during third quarter 2004 utilizing Wells MW-1, MW-2 and MW-3. Approximately 4,705 gallons of groundwater were extracted during a six-week period, and discharge samples, collected periodically through out the extraction event, were analyzed for TPH-G, BTEX compounds, MTBE and TBA. With the exception of an increase of MTBE in Well MW-3, an overall decrease in concentrations was observed in site wells during the extraction activities indicating the successful mass removal of oxygenates.

#### **GROUNDWATER EXTRACTION ACTIVITIES**

Table 1 presents the total gallons extracted and hydrocarbon mass removal estimates from monthly extraction events during the third and fourth quarters 2003, the third quarter 2004 batch extraction activities, and the current first quarter 2005 batch extraction activities.

Due to increasing MTBE groundwater concentrations during fourth quarter 2004, Delta/Shell initiated an extended groundwater batch extraction event during first quarter 2005 utilizing Well MW-2. Approximately 2,950 gallons of groundwater were extracted during a two week period, and discharge samples, collected periodically through out the extraction event, were analyzed for TPH-G, BTEX compounds, MTBE and TBA. Laboratory certified analytical reports and chain of custody documentation for the discharge samples are included as Attachment E. During the batch extraction, the concentration of MTBE in Well MW-2 decreased from 5,200 ug/l to 1,300 ug/l. With the exception of an increase of MTBE in Well MW-4, an overall decrease in concentrations was observed in site wells during extraction activities, indicating the successful mass removal of oxygenates. Groundwater analytical data is presented in Table 2.

#### **DISCUSSION**

Depth to groundwater in Wells MW-1, MW-3, and MW-4 decreased by an average of 1.87 feet since last quarter, while the depth to groundwater in Well MW-2 increased by 5.10 feet. Site wells were gauged by Blaine during batch extraction activities, and the increase in depth to water in Well MW-2 reflects a drawdown due to pumping. With the exception of second quarter 2004 (northwest), previous site data has indicated that the groundwater flow direction at the site varies from southeast to southwest. The groundwater gradient on January 26, 2005 was toward the southeast at a magnitude of 0.004 feet/feet.

MTBE continues to be detected in all on-site site wells (MW-1 through MW-4). The MTBE was detected in Wells MW-1, MW-2, and MW-3 decreased by an average of approximately 35 percent. The MTBE concentration in Well MW-4 increased from 35 ug/l last quarter to a historic high of 450 ug/l. MTBE was detected in the initial sample from newly installed off-site Well MW-5 at 5.1 ug/l. TBA was detected in all on-site wells at concentrations ranging from 43 ug/l to 2,300 ug/l. TBA concentrations in Wells MW-1, MW-2, and MW-3 have decreased by an average of approximately 50 percent since last quarter. TBA was detected for the first time in Well MW-4 at 43 ug/l. TPH-G and BTEX compounds remain below the laboratory detection limits in all site wells.

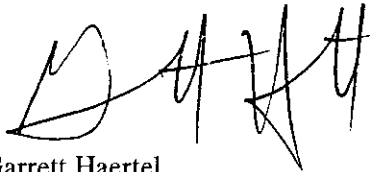
In the second quarter 2005 Blaine will gauge and sample site wells and tabulate the data. Delta will prepare a second quarter 2005 monitoring, sampling, and remediation status report for submittal to the Alameda County Health Care Services Agency.

**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.

Please call if you have any questions regarding the contents of this report.

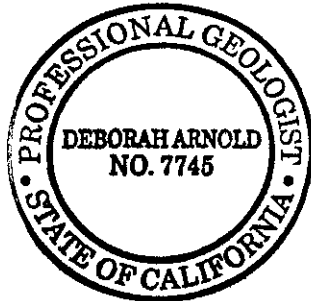
Sincerely,  
**Delta Environmental Consultants, Inc.**



Garrett Haertel  
Project Engineer



Debbie Arnold  
Project Manager  
PG 7745



**Attachments:** Table 1 – Groundwater Extraction – Mass Removal Data  
Table 2 – Summary of Groundwater Data

Figure 1 – Site Location and Well Survey Map

Figure 2 – Groundwater Elevation Contour Map, January 26, 2005

Figure 3 – Benzene and MTBE Concentrations Map, January 26, 2005

Attachment A – Groundwater Monitoring and Sampling Report, March 11, 2005

Attachment B – Well Construction Permit

Attachment C – Well MW-5 Boring Log

Attachment D – Well Survey

Attachment E – Analytical Results for Groundwater Extraction Samples

cc: Denis Brown, Shell Oil Products US  
Betty Graham, Regional Water Quality Control Board, San Francisco Bay Region

**TABLE 1**  
**Groundwater Extraction - Mass Removal Data**  
Shell-Branded Service Station, Incident #97464711  
6750 Santa Rita Rd, Pleasanton, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-G			Benzene			MTBE		
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
07/30/04	MW-1	5	5	07/30/04	<1,000	0.00002	0.00002	<10	0.00000	0.00000			
08/02/04	MW-1	120	125	08/02/04	<500	0.00025	0.00027	<5.0	0.00000	0.00000	1,400	0.00006	0.00006
08/05/04	MW-1	50	175	08/05/04	<500	0.00010	0.00038	<5.0	0.00000	0.00000	840	0.00084	0.00090
08/11/04	MW-1	105	280	08/11/04	<500	0.00022	0.00059	<5.0	0.00000	0.00001	770	0.00032	0.00122
											770	0.00067	0.00190
05/19/03	MW-2/MW-3	67	347	05/09/03	6,125	0.00342	0.00402	<75	0.00002	0.00003	9,500	0.00531	0.00721
05/31/03	MW-2/MW-3	38	385	05/09/03	6,125	0.00194	0.00596	<75	0.00001	0.00004	9,500	0.00301	0.01022
06/13/03	MW-2/MW-3	58	443	05/09/03	6,125	0.00296	0.00893	<75	0.00002	0.00006	9,500	0.00460	0.01482
06/26/03	MW-2/MW-3	48	491	05/09/03	6,125	0.00245	0.01138	<75	0.00002	0.00007	9,500	0.00381	0.01862
06/30/03	MW-2	20	511	05/09/03	<2,500	0.00021	0.01159	<25	0.00000	0.00007	4,000	0.00067	0.01929
07/31/03	MW-2	60	571	07/08/03	<2,000	0.00050	0.01209	<20	0.00001	0.00008	2,800	0.00140	0.02069
08/29/03	MW-2	25	596	07/08/03	<2,000	0.00021	0.01230	<20	0.00000	0.00008	2,800	0.00058	0.02128
09/22/03	MW-2	25	621	07/08/03	<2,000	0.00021	0.01251	<20	0.00000	0.00008	2,800	0.00058	0.02186
10/28/03	MW-2	45	666	10/03/03	<2,000	0.00038	0.01288	<20	0.00000	0.00009	3,600	0.00135	0.02321
11/24/03	MW-2	21	687	10/03/03	<2,000	0.00018	0.01306	<20	0.00000	0.00009	3,600	0.00063	0.02384
12/29/03	MW-2	43	730	10/03/03	<2,000	0.00036	0.01341	<20	0.00000	0.00009	3,600	0.00129	0.02513
07/20/04	MW-2	25	755	07/20/04	<2,500	0.00026	0.01368	<25	0.00000	0.00009	3,500	0.00073	0.02586
07/23/04	MW-2	575	1,330	07/23/04	<2,500	0.00600	0.01967	<25	0.00006	0.00015	3,300	0.01583	0.04170
07/27/04	MW-2	700	2,030	07/27/04	<2,500	0.00730	0.02697	<25	0.00007	0.00023	2,800	0.01635	0.05805
07/30/04	MW-2	625	2,655	07/30/04	<2,000	0.00522	0.03219	<20	0.00005	0.00028	2,000	0.01043	0.06848
01/20/05	MW-2	421	3,076	01/18/05	<2,500	0.00439	0.03658	<25	0.00004	0.00032	5,200	0.01827	0.08675
01/21/05	MW-2	164	3,240	01/18/05	<2,500	0.00171	0.03829	<25	0.00002	0.00034	5,200	0.00712	0.09387
01/24/05	MW-2	554	3,794	01/18/05	<2,500	0.00578	0.04407	<25	0.00006	0.00040	5,200	0.02404	0.11790
01/26/05	MW-2	377	4,171	01/26/05	<1,300	0.00204	0.04611	<25	0.00004	0.00044	2,100	0.00661	0.12451
01/31/05	MW-2	1,434	5,605	01/31/05	<2,500	0.01496	0.06107	<25	0.00015	0.00059	<1,300	0.01556	0.14007
06/30/03	MW-3	95	2,750	05/09/03	11,000	0.00872	0.04091	<100	0.00004	0.00032	15,000	0.01189	0.08037
07/31/03	MW-3	180	2,930	07/08/03	<10,000	0.00751	0.04842	<100	0.00008	0.00039	9,500	0.01427	0.09464
08/29/03	MW-3	180	3,110	07/08/03	<10,000	0.00751	0.05593	<100	0.00008	0.00047	9,500	0.01427	0.10891

**TABLE 1**  
**Groundwater Extraction - Mass Removal Data**  
Shell-Branded Service Station, Incident #97464711  
6750 Santa Rita Rd, Pleasanton, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-G			Benzene			MTBE		
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)
09/22/03	MW-3	126	3,236	07/08/03	<10,000	0.00526	0.06119	<100	0.00005	0.00052	9,500	0.00999	0.11890
10/28/03	MW-3	123	3,359	10/03/03	<10,000	0.00511	0.06630	<100	0.00005	0.00057	8,800	0.00900	0.12789
11/24/03	MW-3	153	3,512	10/03/03	<10,000	0.00638	0.07268	<100	0.00006	0.00064	8,800	0.01123	0.13913
12/29/03	MW-3	107	3,619	10/03/03	<10,000	0.00446	0.07714	<100	0.00004	0.00068	8,800	0.00786	0.14699
09/02/04	MW-3	30	3,649	09/02/04	<1,300	0.00016	0.07731	<1,300	0.00016	0.00084	2,000	0.00050	0.14749
09/03/04	MW-3	220	3,869	09/03/04	<1,300	0.00119	0.07850	<1,300	0.00119	0.00204	2,600	0.00477	0.15226
09/07/04	MW-3	2,050	5,919	09/07/04	<1,000	0.00855	0.08705	<1,000	0.00855	0.01059	2,600	0.04448	0.19674
09/10/04	MW-3	200	6,119	09/10/04	<1,000	0.00083	0.08789	<1,000	0.00083	0.01143	3,600	0.00601	0.20274
<b>Total Gallons Extracted:</b>				<b>9,069</b>	<b>Total Pounds Removed:</b>		<b>0.117</b>	<b>Total Pounds Removed:</b>		<b>0.0117</b>	<b>Total Pounds Removed:</b>		<b>0.274</b>
<b>Total Gallons Extracted This Reporting Period:</b>				<b>2,950</b>	<b>Total Gallons Removed:</b>		<b>0.019</b>	<b>Total Gallons Removed:</b>		<b>0.00161</b>	<b>Total Gallons Removed:</b>		<b>0.044</b>

**Abbreviations and Notes:**  
TPH-G = Total purgeable hydrocarbons as gasoline  
MTBE = Methyl tert-butyl ether  
ppb = Parts per billion, equivalent to micrograms per liter (ug/l)  
gal = Gallon

Mass removed based on the formula: volume extracted (gal) x Concentration (mg/L) x (g/10<sup>6</sup>mg) x (pound/453.6g) x (3.785 L/gal)  
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)  
TPH-G, benzene analyzed by EPA Method 8015/8020

Concentrations based on most recent groundwater monitoring results  
If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.  
For combined well numbers, the average concentration was used assuming 1/2 the detection limit for samples less than the detection limit.

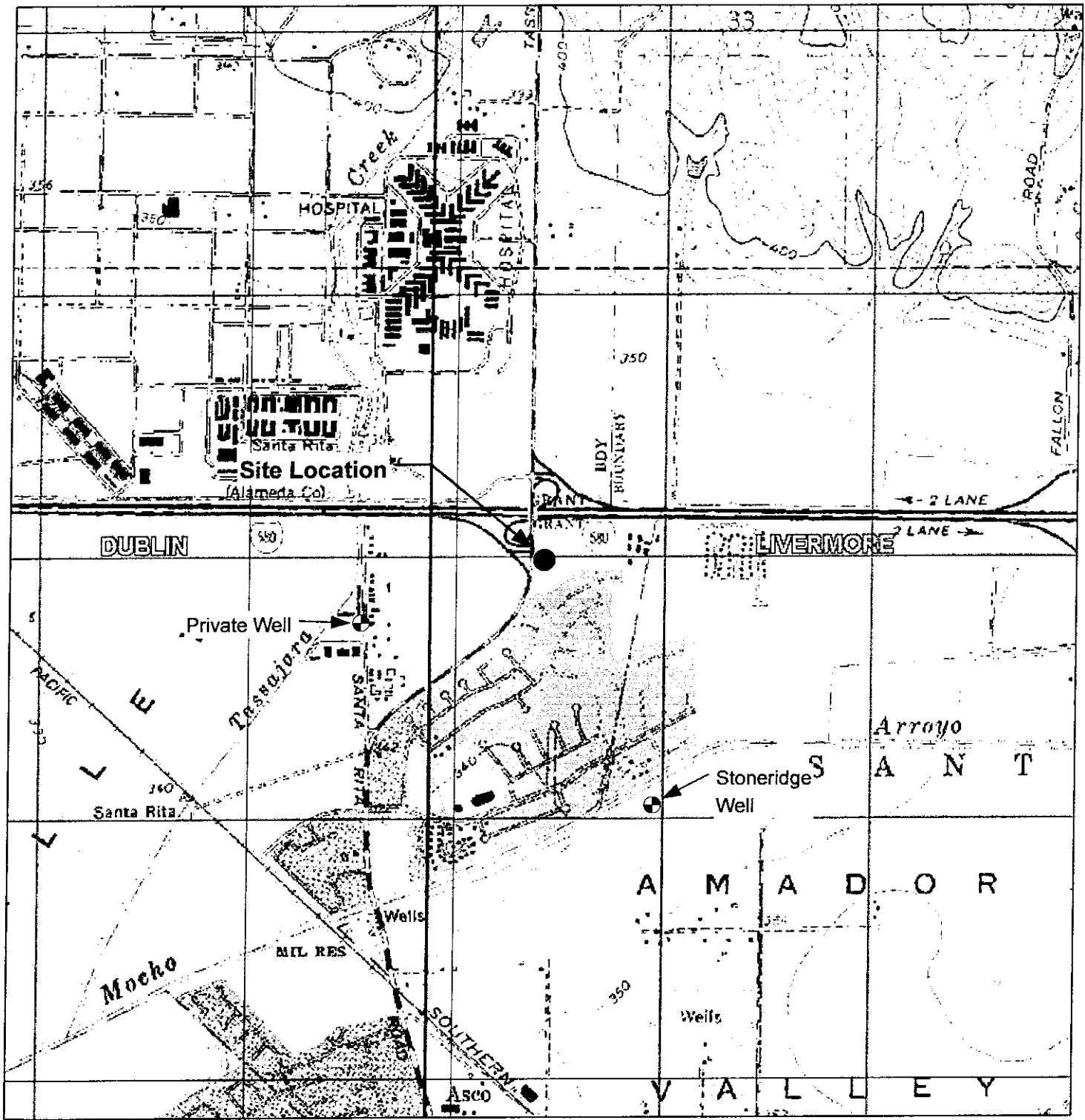


**Table 2**  
**Summary of Groundwater Data**  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, California

Well Designation	Sample Name	Date Sampled	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethly-benzene (ug/l)	Xylene (ug/l)	TBA (ug/l)	MTBE (ug/l)
<b>MW-1</b>	<b>MW-1 5 GAL</b>	7/30/2004	<1000	<10	<10	<10	<10	<b>830</b>	<b>1,400</b>
	<b>MW-1 125 GAL</b>	8/2/2004	<500	<5.0	<5.0	<5.0	<10	<b>910</b>	<b>840</b>
	<b>MW-1</b>	8/5/2004	<500	<5.0	<5.0	<5.0	<10	<50	<b>770</b>
	<b>MW-1</b>	8/11/2004	<500	<5.0	<5.0	<5.0	<10	<b>430</b>	<b>770</b>
<b>Quarterly Sampling</b>	<b>MW-1</b>	4/6/2004	<1300	<13	<13	<13	<25	<b>3,500</b>	<b>3,300</b>
		7/30/2004	<1300	<13	<13	<13	<25	<b>600</b>	<b>1,000</b>
		10/7/2004	<250	<2.5	<2.5	<2.5	<5	<b>390</b>	<b>530</b>
		1/26/2005	<250	<2.5	<2.5	<2.5	<5	<b>130</b>	<b>320</b>
<b>MW-2</b>	<b>MW-2 25 GAL</b>	7/20/2004	<2500	<25	<25	<25	<50	<b>3,500</b>	<b>3,500</b>
	<b>MW-2 600 GAL</b>	7/23/2004	<2500	<25	<25	<25	<50	<b>3,100</b>	<b>3,300</b>
	<b>MW-2 1300 GAL</b>	7/27/2004	<2500	<25	<25	<25	<50	<b>2,400</b>	<b>2,800</b>
	<b>MW-2 1925 GAL</b>	7/30/2004	<2000	<20	<20	<20	<40	<b>2,100</b>	<b>2,000</b>
	<b>MW-2 11 GAL</b>	1/18/2005	<2500	<25	<25	<25	<50	<b>4,000</b>	<b>5,200</b>
	<b>MW-2 2950 GAL</b>	1/31/2005	<2500	<25	<25	<25	<50	<b>850</b>	<b>1,300</b>
<b>Quarterly Sampling</b>	<b>MW-2</b>	4/6/2004	<2000	<20	<20	<20	<40	<b>5,100</b>	<b>4,600</b>
		7/30/2004	<500	<5.0	<5.0	<5.0	<10	<b>950</b>	<b>1,000</b>
		10/7/2004	<2500	<25	<25	<25	<50	<b>6,500</b>	<b>6,300</b>
		1/26/2005	<1300	<13	<13	<13	<25	<b>2,300</b>	<b>2,100</b>
<b>MW-3</b>	<b>MW-3 @ 30 GAL</b>	9/2/2004	<1300	<13	<13	<13	<25	<b>1,700</b>	<b>2,000</b>
	<b>MW-3 @ 250 GAL</b>	9/3/2004	<1300	<13	<13	<13	<25	<b>1,600</b>	<b>2,600</b>
	<b>MW-3 @ 2300 GAL</b>	9/7/2004	<1000	<10	<10	<10	<20	<b>1,700</b>	<b>2,600</b>
	<b>MW-3 END</b>	9/10/2004	<1000	<10	<10	<10	<20	<b>1,600</b>	<b>3,600</b>
<b>Quarterly Sampling</b>	<b>MW-3</b>	4/6/2004	<5000	<50	<50	<50	<100	<b>2,100</b>	<b>4,200</b>
		7/30/2004	<2500	<25	<25	<25	<50	<b>1,200</b>	<b>3,000</b>
		10/7/2004	<1000	<10	<10	<10	<20	<b>320</b>	<b>860</b>
		1/26/2005	<500	<5	<5	<5	<10	<b>250</b>	<b>820</b>
<b>Quarterly Sampling</b>	<b>MW-4</b>	4/6/2004	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<b>16</b>
		7/30/2004	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<b>25</b>
		10/7/2004	<50	<0.5	<0.5	<0.5	<1.0	<5.0	<b>35</b>
		1/26/2005	<250	<2.5	<2.5	<2.5	<5.0	<b>43</b>	<b>450</b>
<b>Quarterly Sampling</b>	<b>MW-5</b>	2/10/2005	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<b>5.1</b>

**Notes:**

All analysis performed by EPA Method 8260B  
ug/l = micrograms per liter  
TPH-G = Total petroleum hydrocarbons as gasoline  
MTBE = Methyl tert-butyl ether  
TBA = Tert-Butanol



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



QUADRANGLE LOCATION

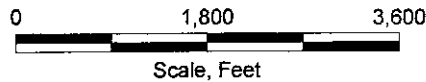
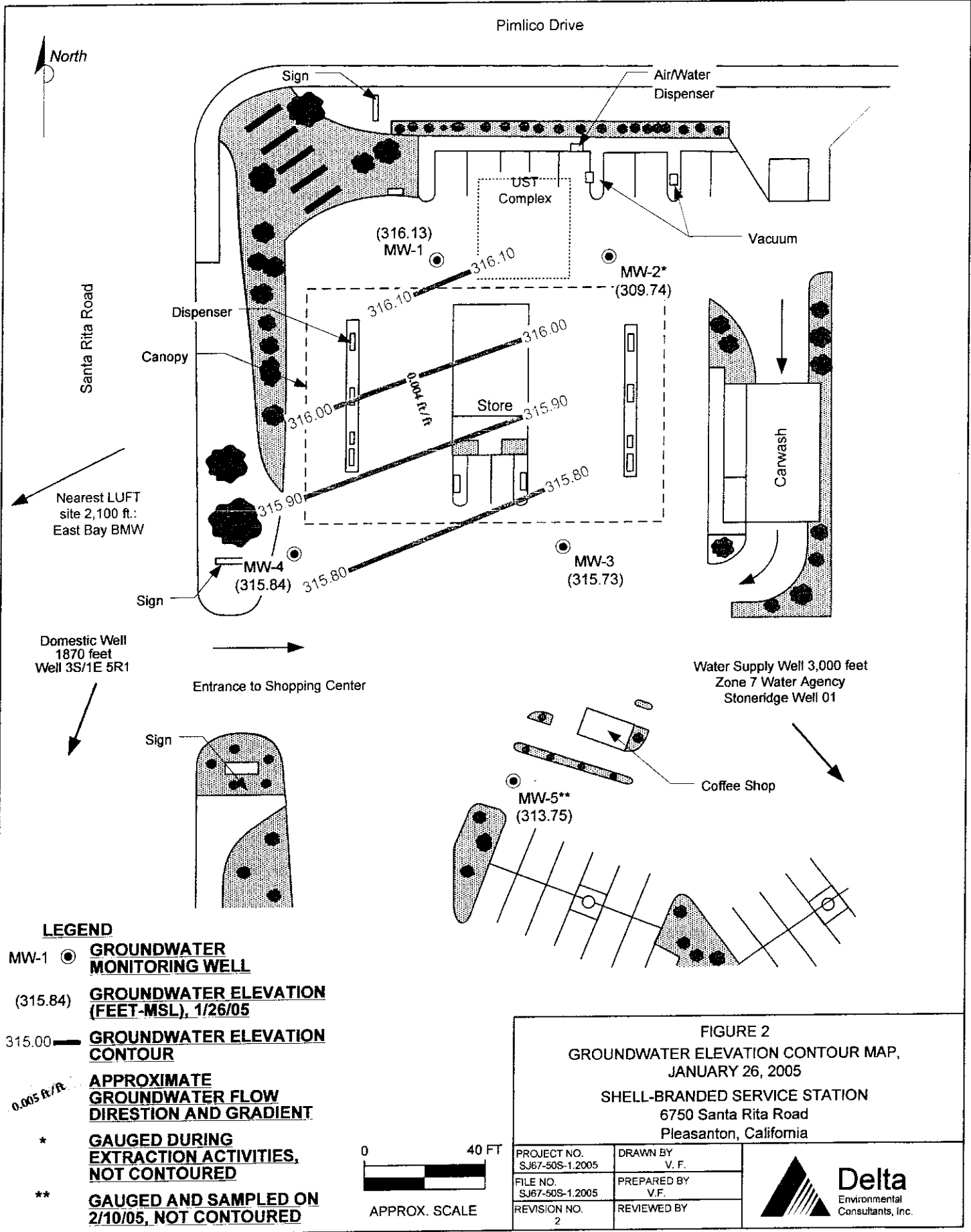
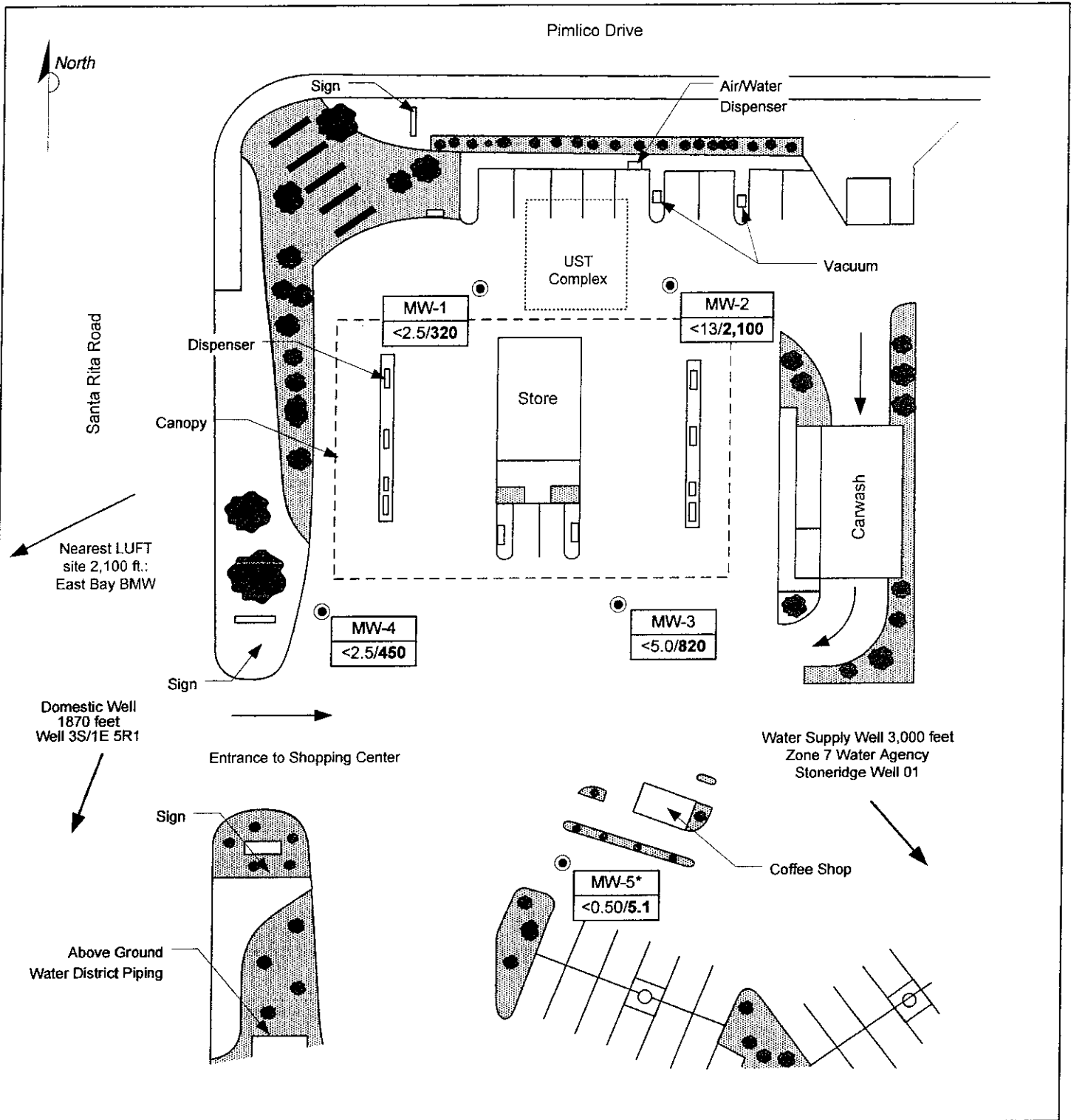


FIGURE 1  
 SITE LOCATION AND WELL SURVEY MAP  
 SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF 12/04/03
FILE NO. SJ67-50S-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY

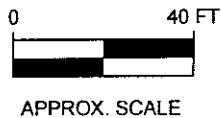






**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- BENZENE/MTBE CONCENTRATIONS (UG/L), 1/26/05**
- <math><0.50/<0.50</math>
- \* **GAUGED AND SAMPLED ON 2/10/05**



**FIGURE 3**  
**BENZENE AND MTBE CONCENTRATIONS MAP,**  
**JANUARY 26, 2005**  
**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

PROJECT NO. SJ67-50S-1.2005	DRAWN BY V. F.
FILE NO. SJ67-50S-1.2005	PREPARED BY V.F.
REVISION NO. 2	REVIEWED BY

**Delta**  
Environmental  
Consultants, Inc.

**Attachment A**

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**GROUNDWATER MONITORING AND SAMPLING REPORT**



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

Please call if you have any questions.

Yours truly,

Leon Gearhart  
Project Coordinator

LG/ks

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

cc: Garrett Haertel  
Delta Environmental  
175 Bernal Road, Suite 200  
San Jose, CA 95119

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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-1	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	<2.0	<2.0	<2.0	<50	NA	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	343.48	31.59	311.89
MW-1	05/09/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	343.48	31.10	312.38
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	07/08/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	343.48	30.90	312.58
MW-1	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/03/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	343.48	29.89	313.59
MW-1	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.38	312.10
MW-1	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.71	313.77
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.72	313.76
MW-1	01/06/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	343.48	29.16	314.32
MW-1	04/06/2004	<1,300	NA	<13	<13	<13	<25	3,300	NA	NA	NA	3,500	343.48	31.38	312.10
MW-1	07/30/2004	<1,300	NA	<13	<13	<13	<25	1,000	NA	NA	NA	600	343.48	28.51	314.97
MW-1	10/07/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	530	NA	NA	NA	390	343.48	28.55	314.93
<b>MW-1</b>	<b>01/26/2005</b>	<b>&lt;250</b>	<b>NA</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;5.0</b>	<b>320</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>130</b>	<b>343.48</b>	<b>27.35</b>	<b>316.13</b>
MW-2	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	<2.0	<2.0	<2.0	<50	NA	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	342.86	30.30	312.56
MW-2	05/09/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	342.86	29.83	313.03
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	07/08/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	342.86	29.86	313.00



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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-2	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88
MW-2	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/03/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	342.86	30.43	312.43
MW-2	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.79	313.07
MW-2	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.00	312.86
MW-2	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.14	312.72
MW-2	01/06/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	342.86	30.05	312.81
MW-2	04/06/2004	<2,000	NA	<20	<20	<20	<40	4,600	NA	NA	NA	5,100	342.86	29.30	313.56
MW-2	07/30/2004	<500	NA	<5.0	<5.0	<5.0	<10	1,000	NA	NA	NA	950	342.86	28.80	314.06
MW-2	10/07/2004	<2,500	NA	<25	<25	<25	<50	6,300	NA	NA	NA	6,500	342.86	28.02	314.84
<b>MW-2</b>	<b>01/26/2005</b>	<b>&lt;1,300</b>	<b>NA</b>	<b>&lt;13</b>	<b>&lt;13</b>	<b>&lt;13</b>	<b>&lt;25</b>	<b>2,100</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>2,300</b>	<b>342.86</b>	<b>33.12</b>	<b>309.74</b>
MW-3	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	<20	<20	<20	1,500	NA	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	342.23	30.76	311.47
MW-3	05/09/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	342.23	30.04	312.19
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	07/08/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	342.23	30.11	312.12
MW-3	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28
MW-3	10/03/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	342.23	29.97	312.26
MW-3	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.97	312.26

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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-3	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.43	312.80
MW-3	01/06/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	342.23	29.25	312.98
MW-3	04/06/2004	<5,000	NA	<50	<50	<50	<100	4,200	NA	NA	NA	2,100	342.23	28.82	313.41
MW-3	07/30/2004	<2,500	NA	<25	<25	<25	<50	3,000	NA	NA	NA	1,200	342.23	28.73	313.50
MW-3	10/07/2004	<1,000	NA	<10	<10	<10	<20	860	NA	NA	NA	320	342.23	28.72	313.51
<b>MW-3</b>	<b>01/26/2005</b>	<b>&lt;500</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;10</b>	<b>820</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>&lt;20</b>	<b>250</b>	<b>342.23</b>	<b>26.50</b>	<b>315.73</b>
MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	32.20	NA
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	343.44	32.07	311.37
MW-4	05/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	343.44	31.35	312.09
MW-4	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	07/08/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	343.44	31.42	312.02
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29
MW-4	10/03/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30
MW-4	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.92	312.52
MW-4	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.82	312.62
MW-4	01/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	343.44	30.24	313.20
MW-4	04/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	16	NA	NA	NA	<5.0	343.44	30.10	313.34
MW-4	07/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	25	NA	NA	NA	<5.0	343.44	29.75	313.69
MW-4	10/07/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	35	NA	NA	NA	<5.0	343.44	29.79	313.65

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	TEPH (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	02/10/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	5.1	<2.0	<2.0	<2.0	<5.0	340.88	27.13	313.75

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

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 or Tertiary butanol, 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:

Site surveyed November 22, 2002 by Mid Coast Engineers.

MW-5 surveyed January 31, 2005 by Mid Coast Engineers of Watsonville, CA.

**Blaine Tech Services, Inc.**

February 10, 2005

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Attn.: Leon Gearhart  
Project#: 050126-SS3  
Project: 97464711  
Site: 6750 Santa Rita Rd., Pleasanton

Dear Mr. Gearhart,

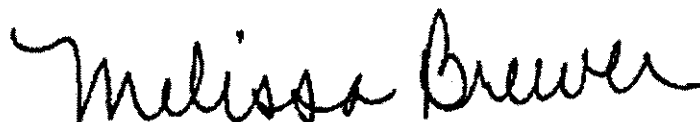
Attached is our report for your samples received on 01/27/2005 14:38  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
03/13/2005 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](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3  
97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	01/26/2005 14:35	Water	1
MW-2	01/26/2005 14:14	Water	2
MW-3	01/26/2005 15:22	Water	3
MW-4	01/26/2005 14:59	Water	4

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3

97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
 Sample ID: MW-1 Lab ID: 2005-01-0773 - 1  
 Sampled: 01/26/2005 14:35 Extracted: 2/8/2005 11:03  
 Matrix: Water QC Batch#: 2005/02/08-1A.69  
 Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	250	ug/L	5.00	02/08/2005 11:03	
Benzene	ND	2.5	ug/L	5.00	02/08/2005 11:03	
Toluene	ND	2.5	ug/L	5.00	02/08/2005 11:03	
Ethylbenzene	ND	2.5	ug/L	5.00	02/08/2005 11:03	
Total xylenes	ND	5.0	ug/L	5.00	02/08/2005 11:03	
tert-Butyl alcohol (TBA)	130	25	ug/L	5.00	02/08/2005 11:03	
Methyl tert-butyl ether (MTBE)	320	2.5	ug/L	5.00	02/08/2005 11:03	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	02/08/2005 11:03	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	02/08/2005 11:03	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	02/08/2005 11:03	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.6	73-130	%	5.00	02/08/2005 11:03	
Toluene-d8	100.6	81-114	%	5.00	02/08/2005 11:03	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3

97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **MW-2** Lab ID: 2005-01-0773 - 2  
 Sampled: 01/26/2005 14:14 Extracted: 2/7/2005 13:07  
 Matrix: Water QC Batch#: 2005/02/07-1B.69  
 Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1300	ug/L	25.00	02/07/2005 13:07	
Benzene	ND	13	ug/L	25.00	02/07/2005 13:07	
Toluene	ND	13	ug/L	25.00	02/07/2005 13:07	
Ethylbenzene	ND	13	ug/L	25.00	02/07/2005 13:07	
Total xylenes	ND	25	ug/L	25.00	02/07/2005 13:07	
tert-Butyl alcohol (TBA)	2300	130	ug/L	25.00	02/07/2005 13:07	
Methyl tert-butyl ether (MTBE)	2100	13	ug/L	25.00	02/07/2005 13:07	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	25.00	02/07/2005 13:07	
Ethyl tert-butyl ether (ETBE)	ND	50	ug/L	25.00	02/07/2005 13:07	
tert-Amyl methyl ether (TAME)	ND	50	ug/L	25.00	02/07/2005 13:07	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.0	73-130	%	25.00	02/07/2005 13:07	
Toluene-d8	102.2	81-114	%	25.00	02/07/2005 13:07	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3  
97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
Sample ID: **MW-3** Lab ID: 2005-01-0773 - 3  
Sampled: 01/26/2005 15:22 Extracted: 2/7/2005 13:26  
Matrix: Water QC Batch#: 2005/02/07-1B.69  
Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	500	ug/L	10.00	02/07/2005 13:26	
Benzene	ND	5.0	ug/L	10.00	02/07/2005 13:26	
Toluene	ND	5.0	ug/L	10.00	02/07/2005 13:26	
Ethylbenzene	ND	5.0	ug/L	10.00	02/07/2005 13:26	
Total xylenes	ND	10	ug/L	10.00	02/07/2005 13:26	
tert-Butyl alcohol (TBA)	250	50	ug/L	10.00	02/07/2005 13:26	
Methyl tert-butyl ether (MTBE)	820	5.0	ug/L	10.00	02/07/2005 13:26	
Di-isopropyl Ether (DIPE)	ND	20	ug/L	10.00	02/07/2005 13:26	
Ethyl tert-butyl ether (ETBE)	ND	20	ug/L	10.00	02/07/2005 13:26	
tert-Amyl methyl ether (TAME)	ND	20	ug/L	10.00	02/07/2005 13:26	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.3	73-130	%	10.00	02/07/2005 13:26	
Toluene-d8	96.0	81-114	%	10.00	02/07/2005 13:26	



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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3

97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **MW-4** Lab ID: 2005-01-0773 - 4  
 Sampled: 01/26/2005 14:59 Extracted: 2/7/2005 13:45  
 Matrix: Water QC Batch#: 2005/02/07-1B.69  
 Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	250	ug/L	5.00	02/07/2005 13:45	
Benzene	ND	2.5	ug/L	5.00	02/07/2005 13:45	
Toluene	ND	2.5	ug/L	5.00	02/07/2005 13:45	
Ethylbenzene	ND	2.5	ug/L	5.00	02/07/2005 13:45	
Total xylenes	ND	5.0	ug/L	5.00	02/07/2005 13:45	
tert-Butyl alcohol (TBA)	43	25	ug/L	5.00	02/07/2005 13:45	
Methyl tert-butyl ether (MTBE)	450	2.5	ug/L	5.00	02/07/2005 13:45	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	02/07/2005 13:45	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	02/07/2005 13:45	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	02/07/2005 13:45	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.8	73-130	%	5.00	02/07/2005 13:45	
Toluene-d8	97.4	81-114	%	5.00	02/07/2005 13:45	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3  
97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2005/02/07-1B.69-049

**Water**

Test(s): 8260B

**QC Batch # 2005/02/07-1B.69**

Date Extracted: 02/07/2005 07:49

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	02/07/2005 07:49	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	02/07/2005 07:49	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/07/2005 07:49	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/07/2005 07:49	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/07/2005 07:49	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/07/2005 07:49	
Benzene	ND	0.5	ug/L	02/07/2005 07:49	
Toluene	ND	0.5	ug/L	02/07/2005 07:49	
Ethylbenzene	ND	0.5	ug/L	02/07/2005 07:49	
Total xylenes	ND	1.0	ug/L	02/07/2005 07:49	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.0	73-130	%	02/07/2005 07:49	
Toluene-d8	100.4	81-114	%	02/07/2005 07:49	

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

Blaine Tech Services, Inc.  
Attn.: Leon Gearhart

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3  
97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/02/08-1A.69

MB: 2005/02/08-1A.69-036

Date Extracted: 02/08/2005 07:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	02/08/2005 07:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	02/08/2005 07:36	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/08/2005 07:36	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/08/2005 07:36	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/08/2005 07:36	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/08/2005 07:36	
Benzene	ND	0.5	ug/L	02/08/2005 07:36	
Toluene	ND	0.5	ug/L	02/08/2005 07:36	
Ethylbenzene	ND	0.5	ug/L	02/08/2005 07:36	
Total xylenes	ND	1.0	ug/L	02/08/2005 07:36	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	100.0	73-130	%	02/08/2005 07:36	
Toluene-d8	103.6	81-114	%	02/08/2005 07:36	

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

Blaine Tech Services, Inc.  
Attn.: Leon Gearhart

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3  
97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/02/07-1B.69**

LCS 2005/02/07-1B.69-031  
LCSD

Extracted: 02/07/2005

Analyzed: 02/07/2005 07:31

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	28.1		25	112.4			65-165	20		
Benzene	24.7		25	98.8			69-129	20		
Toluene	26.1		25	104.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	484		500	96.8			73-130			
Toluene-d8	498		500	99.6			81-114			

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

Blaine Tech Services, Inc.  
Attn.: Leon Gearhart

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Phone: (408) 573-0555 Fax: (408) 573-7771  
Project: 050126-SS3  
97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/02/08-1A.69**

LCS 2005/02/08-1A.69-017  
LCSD

Extracted: 02/08/2005

Analyzed: 02/08/2005 07:17

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.9		25	95.6			65-165	20		
Benzene	23.2		25	92.8			69-129	20		
Toluene	24.8		25	99.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	455		500	91.0			73-130			
Toluene-d8	501		500	100.2			81-114			

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

Blaine Tech Services, Inc.  
Attn.: Leon Gearhart

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3  
97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/02/07-1B.69**

MS/MSD

Lab ID: 2005-01-0770 - 001

MS: 2005/02/07-1B.69-011

Extracted: 02/07/2005

Analyzed: 02/07/2005 12:11

Dilution: 1.00

MSD: 2005/02/07-1B.69-030

Extracted: 02/07/2005

Analyzed: 02/07/2005 12:30

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	26.6	25.6	ND	25	106.4	102.4	3.8	65-165	20		
Benzene	23.3	22.3	ND	25	93.2	89.2	4.4	69-129	20		
Toluene	25.4	24.3	ND	25	101.6	97.2	4.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	493	471		500	98.6	94.2		73-130			
Toluene-d8	506	506		500	101.3	101.2		81-114			

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3

97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/02/08-1A.69**

MS/MSD

Lab ID: 2005-02-0088 - 001

MS: 2005/02/08-1A.69-031

Extracted: 02/08/2005

Analyzed: 02/08/2005 08:31

Dilution: 1.00

MSD: 2005/02/08-1A.69-050

Extracted: 02/08/2005

Analyzed: 02/08/2005 08:50

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	25.8	27.2	ND	25	103.2	108.8	5.3	65-165	20		
Benzene	21.7	23.5	ND	25	86.8	94.0	8.0	69-129	20		
Toluene	24.0	27.0	ND	25	96.0	108.0	11.8	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	510	506		500	102.0	101.2		73-130			
Toluene-d8	517	568		500	103.4	113.6		81-114			

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

02/10/2005 12:33

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050126-SS3

97464711

Received: 01/27/2005 14:38

Site: 6750 Santa Rita Rd., Pleasanton

---

**Legend and Notes**

---

**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present in the sample.



LAB: 47L  
 Lab Identification (if necessary)  
 Address  
 City, State, Zip

**SHELL Chain Of Custody Record**

97826

Shell Project Manager to be invoiced:  
**Karen Petryna**  
**2005-01-0773**

INCIDENT NUMBER (SKE ONLY)  
 9 7 4 6 4 7 1 1  
 SAP or CRMT NUMBER (TSICRMT)

DATE: 1/26/05  
 PAGE: 1 of 1

SAMPLE CONTRACT  
**Blaine Tech Services**  
 ADDRESS:  
 1600 Rogers Avenue, San Jose, CA 95112  
 PROJECT CONTACT please see attached Page 10  
**Leon Gearhart**  
 TELEPHONE: 408-573-0555  
 FAX: 408-573-7771  
 EMAIL: [lgearhart@blainetech.com](mailto:lgearhart@blainetech.com)

SITE ADDRESS (Street and City):  
**6750 Santa Rita Rd., Pleasanton**  
 SITE USE (Main E TO 1000-10000 Feet of Distance):  
**Verd Fishhar**  
 PHONE NO.: (408) 224-4724  
 CONSULTANT PROJECT ID: **07126933**  
 DATE: **01/26/05**

GLOBAL ID: **T0600102532**  
 LAB USE ONLY  
 v.fischer@idellintegrity.com

TURNAROUND TIME (BUSINESS DAYS)  
 10 DAYS  5 DAYS  77 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS.  
 LA - AMOCS REPORT FORMAT  IIST AGENCY  
 SOME MTRB CONFIRMATION PRESHEAT REQUEST PER BORING ALL  
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDDIS IEDI ASSESS

REQUESTED ANALYSIS  
**Sulfate Surge**

FIELD NOTES:  
 Contaminant/Preservative  
 or PID Readings  
 or Laboratory Notes  
2 ac  
 TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	TIME	MATRIX	NO. OF CONT.	TRM - Gas, Purgeable	TRM (0021B - Spnd RL)	MTBE (0250B - 0.5ppb RL)	Oxygenates (5) by (0250B)	TRM - Diesel, Extractable
	MW-1	1/26/05	600		3	X	X	X	X	
	MW-2	1/26/05	1444		1	X	X	X	X	
	MW-3	1/26/05	1520		1	X	X	X	X	
	MW-4	1/26/05	1459		1	X	X	X	X	

RESERVED BY (Signature):  
 Requested by (Signature):  
 Received by (Signature):  
 Date: 1/27/05  
 Date: 01/27/05  
 Date: 1/28/05  
 Date: 1654

**Blaine Tech Services, Inc.**

February 25, 2005

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Attn.: Leon Gearhart  
Project#: 050210-DA3  
Project: 97464711  
Site: 6750 Santa Rita Rd., Pleasanton

Dear Mr. Gearhart,

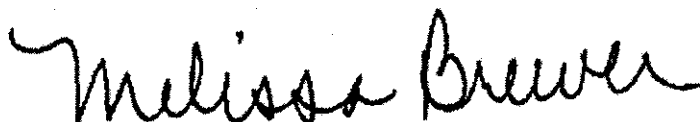
Attached is our report for your samples received on 02/11/2005 13:30  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
03/28/2005 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](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050210-DA3

97464711

Received: 02/11/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-5	02/10/2005 14:50	Water	1

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

02/25/2005 14:12

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050210-DA3

97464711

Received: 02/11/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-5	Lab ID: 2005-02-0393 - 1
Sampled: 02/10/2005 14:50	Extracted: 2/21/2005 22:05
Matrix: Water	QC Batch#: 2005/02/21-2B.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	02/21/2005 22:05	
Benzene	ND	0.50	ug/L	1.00	02/21/2005 22:05	
Toluene	ND	0.50	ug/L	1.00	02/21/2005 22:05	
Ethylbenzene	ND	0.50	ug/L	1.00	02/21/2005 22:05	
Total xylenes	ND	1.0	ug/L	1.00	02/21/2005 22:05	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/21/2005 22:05	
Methyl tert-butyl ether (MTBE)	5.1	0.50	ug/L	1.00	02/21/2005 22:05	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	02/21/2005 22:05	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	02/21/2005 22:05	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	02/21/2005 22:05	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	110.5	73-130	%	1.00	02/21/2005 22:05	
Toluene-d8	106.9	81-114	%	1.00	02/21/2005 22:05	

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02/25/2005 14:12

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050210-DA3

97464711

Received: 02/11/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/02/21-2B.68-022

Water

Test(s): 8260B

QC Batch # 2005/02/21-2B.68

Date Extracted: 02/21/2005 16:22

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	02/21/2005 16:22	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	02/21/2005 16:22	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/21/2005 16:22	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	02/21/2005 16:22	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	02/21/2005 16:22	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	02/21/2005 16:22	
Benzene	ND	0.5	ug/L	02/21/2005 16:22	
Toluene	ND	0.5	ug/L	02/21/2005 16:22	
Ethylbenzene	ND	0.5	ug/L	02/21/2005 16:22	
Total xylenes	ND	1.0	ug/L	02/21/2005 16:22	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	103.6	73-130	%	02/21/2005 16:22	
Toluene-d8	106.4	81-114	%	02/21/2005 16:22	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050210-DA3  
97464711

Received: 02/11/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/02/21-2B.68**

LCS 2005/02/21-2B.68-005

Extracted: 02/21/2005

Analyzed: 02/21/2005 16:05

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	18.8		25	75.2			65-165	20		
Benzene	20.1		25	80.4			69-129	20		
Toluene	21.8		25	87.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	444		500	88.8			73-130			
Toluene-d8	552		500	110.4			81-114			

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

Blaine Tech Services, Inc.

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050210-DA3  
97464711

Received: 02/11/2005 13:30

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/02/21-2B.68**

MS/MSD

Lab ID: 2005-02-0475 - 018

MS: 2005/02/21-2B.68-045

Extracted: 02/21/2005

Analyzed: 02/21/2005 17:45

Dilution: 1.00

MSD: 2005/02/21-2B.68-002

Extracted: 02/21/2005

Analyzed: 02/21/2005 18:02

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	20.2	20.9	ND	25	80.8	83.6	3.4	65-165	20		
Benzene	21.0	21.1	ND	25	84.0	84.4	0.5	69-129	20		
Toluene	22.5	23.2	ND	25	90.0	92.8	3.1	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	460	447		500	92.0	89.4		73-130			
Toluene-d8	538	529		500	107.6	105.8		81-114			

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02/25/2005 14:12







## SITE INSPECTION CHECKLIST

Client Shell Date 1/26/05  
 Site Address 6750 Santa Rita Rd., Pleasanton  
 Job Number 050126-MG2 Technician MG  
 Site Status Shell Branded Station Vacant Lot Other \_\_\_\_\_

- Inspected / ~~Labeled~~ / Cleaned - All Wells on Scope Of Work
- Inspected / Cleaned Components - All Other Identifiable Wells  (N/A)
- Inspected Site for Investigation Related Trip Hazards
- Addressed All Outstanding Wellhead Repair Order(s)  N/A
- Completed Repair Data Sheets(s)  N/A
- Inspected Treatment / Remediation System Compound For Security, Cleanliness and Appearance  N/A
- Inspected Vacant Lot for Signs of Habitation, Hazardous Materials or Terrain, Overgrown Vegetation and Security  (N/A)

PLEASE BE ADVISED THAT, UNLESS OTHERWISE INSTRUCTED, NO REPAIRS ARE PLANNED FOR THE ISSUES DESCRIBED BELOW

Outstanding Problems / Comments	(In addition to other issues, note all SOW wellboxes that, by design, are not securable)
<u>MW-2 has temporary above grade ext-system setup.</u>	

PROJECT COORDINATOR ONLY

Checklist Reviewed <u>LB</u> <u>1/27/05</u> <small>Initial/Date</small>	Notes
--	-------

REPAIR DATA SHEET

Client Shell Date 1/26/05

Site Address 6750 Santa Rita Rd., Pleasanton

Job Number 050126-MG2 Technician MG

Repair Location MW-1

Deficiencies Corrected Gasket in pieces, bolt missing. Tapped tab, + added 1 new bolt, + gasket.

Materials Used 1 bolt, gasket

Repair Location MW-3

Deficiencies Corrected Gasket broken, bolt missing. Tapped tab, + added 1 new bolt + gasket. Cap rusted stuck. Added new 2" cap.

Materials Used 1 bolt, gasket, 2" cap

Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_

Repair Location \_\_\_\_\_

Deficiencies Corrected \_\_\_\_\_

Materials Used \_\_\_\_\_



## SHELL WELL MONITORING DATA SHEET

BTS #: <u>050126-553</u>	Site: <u>97464711</u>
Sampler: <u>Snooch</u>	Date: <u>1/26/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>41.72</u>	Depth to Water (DTW): <u>27.35</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>30.22</u>	

Purge Method: Bailer      Waterra      Sampling Method: Bailer  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Positive Air Displacement      Extraction Pump      Extraction Port  
 Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

Other: \_\_\_\_\_

$\frac{2.3 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = \frac{6.9 \text{ Gals.}}{\text{Specified Volumes}} = \text{Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1425	65.4	7.5	2159	458	2.3	cloudy
1428	66.1	7.6	2083	546	4.6	"
1431	65.6	7.6	2271	306	7.0	"

Did well dewater? Yes  No  Gallons actually evacuated: 7

Sampling Date: 1/26/05 Sampling Time: 1435 Depth to Water: 30.21

Sample I.D.: MW-1 Laboratory: STL Other \_\_\_\_\_

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D Other: TBA, OXY'S

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

### SHELL WELL MONITORING DATA SHEET

BTS #: <u>050126-555</u>	Site: <u>97464711</u>
Sampler: <u>Sooch</u>	Date: <u>1/26/05</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth (TD): <u>41.85</u>	Depth to Water (DTW): <u>33.12</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.26) + DTW]: <u>34.87</u>	

Purge Method: <u>(Bailer)</u> Disposable Bailer Positive Air Displacement Electric Submersible	Wattera Peristaltic Extraction Pump Other _____	Sampling Method: <u>(Bailer)</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
---	--	--

$\frac{1.4 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = 4.2 \text{ Gals. Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1407	65.8	7.8	2468	729	1.4	cloudy
1409	65.9	7.8	2579	>1000	2.8	"
1411	66.2	7.8	2677	>1000	4.5	"

Did well dewater? Yes  No  Gallons actually evacuated: 4.5

Sampling Date: 1/26/05 Sampling Time: 1414 Depth to Water: 34.15

Sample I.D.: MW-2 Laboratory: (STL) Other: \_\_\_\_\_

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: TBA, OXY'S

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>050126-553</u>	Site: <u>97464711</u>
Sampler: <u>Sooch</u>	Date: <u>1/26/05</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>44.00</u>	Depth to Water (DTW): <u>26.50</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>30.02</u>	

Purge Method: Bailer      Watera      Sampling Method: Bailer  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Positive Air Displacement      Extraction Pump      Extraction Port  
 Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing

Other: \_\_\_\_\_

$\underline{2.8} \text{ (Gals.)} \times \underline{3} = \underline{8.4} \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1510	66.2	7.8	4107	>1000	2.8	cloudy
1514	66.4	7.7	4287	>1000	5.6	"
1518	66.5	7.7	4311	>1000	8.5	"

Did well dewater?    Yes    No      Gallons actually evacuated: 8.5

Sampling Date: 1/26/05    Sampling Time: 1522    Depth to Water: 30.00

Sample I.D.: MW-3      Laboratory: STL    Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D    Other: TBA, OXY'S

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time    Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>050126-553</u>	Site: <u>97464711</u>
Sampler: <u>Snooch</u>	Date: <u>1/26/05</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth (TD): <u>44.00</u>	Depth to Water (DTW): <u>27.60</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>30.88</u>	

Purge Method: Bailer      Waterra      Sampling Method: Bailer  
 Disposable Bailer      Peristaltic      Disposable Bailer  
 Positive Air Displacement      Extraction Pump      Extraction Port  
 Electric Submersible      Other \_\_\_\_\_      Dedicated Tubing  
 Other: \_\_\_\_\_

$\frac{2.6 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 7.8 \text{ Gals.}$ <p style="text-align: center;">Specified Volumes      Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1445	64.5	7.5	2091	338	2.6	TURBID
1448	65.1	7.5	2160	343	5.2	"
1451	65.1	7.5	2117	454	8.0	"

Did well dewater? Yes  No  Gallons actually evacuated: 8

Sampling Date: 1/26/05      Sampling Time: 1459      Depth to Water: ~~27.60~~ 30.88

Sample I.D.: MW-4      Laboratory: (STL) Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: TBA, OXY'S

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV



WELLHEAD INSPECTION CHECKLIST

Date 2/2/05 Client Smell  
 Site Address 6750 Santa Rita, Pleasanton  
 Job Number 050203-MTI Technician KTJ

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
M10-5						✓		

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## WELL DEVELOPMENT DATA SHEET

Project #: <u>050208-MTI</u>	Client: <u>97410471</u>
Developer: <u>MTI</u>	Date Developed: <u>2/3/05</u>
Well I.D. <u>M10-5</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before <u>32.00</u> After <u>32.01</u>	Depth to Water: Before <u>26.93</u> After <u>31.73</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $\{12 \times (d^3/4) \times \pi\} / 231$ where 12 = in / foot d = diameter (in.) $\pi = 3.1416$ 231 = in <sup>3</sup> /gal	Well dia.	VCF
	2" =	0.16
	3" =	0.37
	4" =	0.65
	6" =	1.47
	10" =	4.08
	12" =	6.87

<u>0.92</u>	X	<u>10</u>	=	<u>9.2</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:       Bailer       Electric Submersible  
 Suction Pump       Positive Air Displacement

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
						<u>Surged well for 15 min.</u>
<u>0920</u>	<u>56.6</u>	<u>6.7</u>	<u>3671</u>	<u>&gt;1000</u>	<u>0.92</u>	<u>Hard Bottom, Removing silt</u>
<u>0922</u>	<u>61.7</u>	<u>7.0</u>	<u>3470</u>	<u>&gt;1000</u>	<u>1.64</u>	<u>" "</u>
<u>0925</u>	<u>62.0</u>	<u>7.1</u>	<u>3462</u>	<u>&gt;1000</u>	<u>2.46</u>	<u>" "</u>
<u>0927</u>	<u>64.1</u>	<u>7.1</u>	<u>3612</u>	<u>&gt;1000</u>	<u>3.3</u>	<u>" "</u>
<u>0928</u>	<u>64.1</u>	<u>7.1</u>	<u>3620</u>	<u>&gt;1000</u>	<u>4.2</u>	<u>" "</u>
<u>0930</u>	<u>63.5</u>	<u>7.8</u>	<u>3641</u>	<u>&gt;1000</u>	<u>5.1</u>	<u>" "</u>
<u>0932</u>	<u>63.7</u>	<u>7.7</u>	<u>3644</u>	<u>&gt;1000</u>	<u>6</u>	<u>" "</u>
					<u>6.9</u>	<u>Stop &amp; Surged well for 5 min</u>
<u>0935</u>	<u>64.0</u>	<u>7.4</u>	<u>3920</u>	<u>&gt;1000</u>	<u>7.8</u>	<u>DTW = 31.12</u>
<u>0939</u>	<u>63.5</u>	<u>7.3</u>	<u>3930</u>	<u>&gt;1000</u>	<u>8.2</u>	<u>DTW = 30.00, Handpiled</u>
<u>0945</u>	<u>64.0</u>	<u>7.1</u>	<u>3900</u>	<u>&gt;1000</u>	<u>8.2</u>	<u>" "</u>

Did Well Dewater? Yes      If yes, note above.      Gallons Actually Evacuated: 8.2

# WELLHEAD INSPECTION CHECKLIST

Date 2/10/05 Client Shell  
 Site Address 6750 Santa Rita Rd. Pleasanton, CA  
 Job Number 050210-043 Technician DA

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-5	X							

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





**Attachment B**

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**WELL CONSTRUCTION PERMIT**



# 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 6750 Santa Rita Rd.  
Pleasanton - off site well at 6700  
Santa Rita Rd, Pleasanton

\* PERMIT NUMBER 25004  
WELL NUMBER 3S/1E 4L5  
APN 946-1101-037-00

California Coordinates Source \_\_\_\_\_ Accuracy \_\_\_\_\_ ft.  
CCN \_\_\_\_\_ ft. CCE \_\_\_\_\_ ft.  
APN 996-1107-37

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT  
Name Shell Oil Products US  
Address 20945 S. Wilmington Phone (559) 415-9306  
City Carson, CA Zip 90810

- (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.  
Address 75 Bernal Rd. Ste. 200 Phone (408) 224-4724  
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 of 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   
Cathodic Protection  Other \_\_\_\_\_

- (C) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
  3. Grout placed by tremie.

PROPOSED WELL USE:  
Domestic  Irrigation   
Municipal  Remediation   
Industrial  Groundwater Monitoring   
Dewatering  Other \_\_\_\_\_

- D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:  
Mud Rotary  Air Rotary  Hollow Stem Auger   
Cable Tool  Direct Push  Other \_\_\_\_\_

- E. CATHODIC: Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY Gregg Drilling and Testing  
DRILLER'S LICENSE NO. CS9-485165

- (F) WELL DESTRUCTION. See attached.  
(G) SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results.**

WELL SPECIFICATIONS:  
Drill Hole Diameter 8 in. Maximum \_\_\_\_\_  
Casing Diameter 2 in. Depth 50 ft.  
Surface Seal Depth 23 ft. Number MW-5

SOIL BORINGS:  
Number of Borings \_\_\_\_\_ Maximum \_\_\_\_\_  
Hole Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.

ESTIMATED STARTING DATE 1-26-05  
ESTIMATED COMPLETION DATE 1-26-05

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.  
APPLICANT'S SIGNATURE Rebecca Wolff Date 1-11-05  
Approved Wyman Hong Date 1/11/05  
Wyman Hong

ATTACH SITE PLAN OR SKETCH

\* Please reference Permit number 24061 issued 5/24/04



**Attachment C**

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**WELL MW-5 BORING LOG**

# Delta

Environmental  
Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	MW-5
Logged By:	Rebecca Wolff	Location:	6750 Santa Rita Rd, Pleasanton	Page 1 of 2	
Driller:	Gregg Drilling	Date Drilled:	1/26/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8"	Please see site map	
Sampling Method:	Split Spoon	Hole Depth:	35'		
Casing Type:	Sch. 40 PVC	Well Diameter:	2"		
Slot Size:	0.02	Well Depth:	32'		
Gravel Pack:	#3 Sand	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	
Backfill	Casing									
Grout					↑ Air Knifed ↓			AF	Asphalt and base rock	
					1			CL	Lean CLAY; gray, moderate plasticity	
					2			CL	Sandy Lean CLAY; gray-brown, 25-35% medium grained sand	
					3					
					4					
					5					
					6					
					7			CL	Lean CLAY; dark gray, high plasticity, trace coarse grained sand, no dilatancy	
					8					
					9					
			damp	0.2	7					(trace caliche, trace gravel, trace red mottling
					8					small shells in clay)
					12					
					12					
					13					
			damp	0.2	5					(root holes, <5% coarse grained sand,
					9					trace 1/4" gravel, increased caliche)
					12					
					15					
					16					
					17					
					18					
		damp	0.6	4					(dark brown, trace caliche, root holes, trace	
				5					gravel, trace sand, dark brown mottling	
				10						
				19						
				20						
				21						
				22						

# Delta

Environmental Consultants, Inc.

Project No:	SJ67-50S-1	Client:	Shell Oil Products US	Well No:	MW-5
Logged By:	Rebecca Wolff	Location:	6750 Santa Rita Rd, Pleasanton	Page 2 of 2	
Driller:	Gregg Drilling	Date Drilled:	1/26/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	8"	Please see site map	
Sampling Method:	Split Spoon	Hole Depth:	35'		
Casing Type:	Sch. 40 PVC	Well Diameter:	2"		
Slot Size:	0.02	Well Depth:	32'		
Gravel Pack:	#3 Sand	Casing Stickup:	-		

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

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout					23		CL	continued (tan)
Bentonite		damp	0.3	4	24		SP-SM	<b>SAND with Silt</b> ; brown, coarse to very coarse sand, 5-15% silty fines <b>Lean CLAY</b> ; tan-brown, 5-15% fine grained sand, some silty fines
				9	25		CL	
					26			
Sand	▼	moist wet damp	0.1	10	29		SM	<b>Silty SAND</b> ; brown, medium to fine grained sand (fining downward), 20-30% silt
				17	30			
				20	30			
					31			
					32			
					33			
Sand		damp	0.1	3	34		CL	<b>Lean CLAY</b> ; tan, 5-10% fine grained sand, medium plasticity
				4	35			
				5	35			
					36			Bottom of Boring at 35 ft
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

**Attachment D**

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**WELL SURVEY**



## Mid Coast Engineers

Civil Engineers and Land Surveyors

70 Penny Lane, Suite A - Watsonville, CA 95076

phone: (831) 724-2580

fax: (831) 724-8025

e-mail: lee@midcoastengineers.com

Richard A. Wadsworth  
Civil Engineer

Stanley O. Nielsen  
Land Surveyor

Lee D. Vaage  
Land Surveyor

Jeff S. Nielsen  
Land Surveyor

February 2, 2005

Rebecca Wolff  
Delta Environmental Consultants, Inc.  
175 Bernal Road, Suite 200  
San Jose, CA 95119

Re: **Shell-branded Service Station, 6750 Santa Rita Road, Pleasanton, California;** DELTA  
Project No. SJ67-505-1, MCE Job No.02249X

Dear Ms. Wolff,

As you requested, on January 31 we surveyed one additional monitoring well located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude, and are consistent with our previous survey of November 22, 2002.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the box (TOB).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points AA3813 (HPGN D CA 04 EK), AA3815 (HPGN D CA 04 FK) and HS5408 (HPGN CA 04 07), as published by NGS/NOAA and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 2, NAD 83 Datum. The accuracy range of the reported information is +/- 1cm. GPS equipment is the Trimble 5700/5800 system (Code T57/T58).

The benchmark used for this survey is Q 1257, a disk on the top of a copper coated rod, stamped "Q 1257 1974", at the junction of Santa Rita Road and Black Avenue, at the Amador Valley Community Park. Elevation = 341.578 feet, NGVD 29, as obtained from the City of Pleasanton Public Works Department.

Please let me know if you have questions or need additional information.

Yours truly,

Lee D. Vaage



**SHELL BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

**DELTA Project No. SJ67-505-1**

Project : 02249X

User name MCE      Date & Time 10:56:02 AM 2/2/2005  
Coordinate System US State Plane 1983      Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point Number	Northing	Easting	Elevation	Description
212	2080035.73	6164819.32	340.88	MW-5toc
213	2080035.92	6164819.37	342.19	MW-5tob

**SHELL BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

**DELTA Project No. SJ67-505-1**

Project : 02249X

User name MCE      Date & Time 10:56:02 AM 2/2/2005      -  
Coordinate System US State Plane 1983      Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point Number	Latitude	Longitude	Elevation	Description
212	37.699393767°N	121.871725477°W	340.88	MW-5toc
213	37.699394278°N	121.871725291°W	342.19	MW-5tob

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>SHELL BRANDED SERVICE STATION</b>											
2	<b>6750 Santa Rita Road</b>											
3	<b>Pleasanton, California</b>											
4												
5	<b>DELTA Project No. SJ67-505-1</b>											
6												
7	Project : 02249X											
8	User name MCE		Date & Time 10:56:02 AM 2/2/2005									
9	Coordinate System US State Plane 1983		Zone California Zone 3 0403									
10	Project Datum NAD 1983 (Conus)											
11	Vertical Datum NGVD29											
12	Coordinate Units US survey feet											
13	Distance Units US survey feet											
14	Elevation Units US survey feet											
15												
16		MW-5	MW	01/31/2005	37.6993938	-121.8717255	CGPS	NAD83	1	Mid Coast Engineers	T57/T58	top of casing





**Attachment E**

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**ANALYTICAL RESULTS FOR GROUNDWATER EXTRACTION SAMPLES**

**Delta Env. Consultants San Jose**

January 27, 2005

175 Bernal Road, Suite 200  
San Jose, CA 95119

Attn.: Garrett Haertel

Project#: Consultant Project #SJ67-50S-1

Project: 97464711

Site: 6750 Santa Rita Rd., Pleasanton, CA

Dear Mr. Haertel:

Attached is our report for your samples received on 01/19/2005 14:30

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 03/05/2005 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](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 01/19/2005 14:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-2 11 GAL	01/18/2005 11:35	Water	1

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

01/27/2005 07:41

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 01/19/2005 14:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

Prep(s): 5030B Test(s): 8260B  
Sample ID: **MW-2 11 GAL** Lab ID: 2005-01-0488 - 1  
Sampled: 01/18/2005 11:35 Extracted: 1/24/2005 20:52  
Matrix: Water QC Batch#: 2005/01/24-2B.69  
Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	2500	ug/L	50.00	01/24/2005 20:52	
Benzene	ND	25	ug/L	50.00	01/24/2005 20:52	
Toluene	ND	25	ug/L	50.00	01/24/2005 20:52	
Ethylbenzene	ND	25	ug/L	50.00	01/24/2005 20:52	
Total xylenes	ND	50	ug/L	50.00	01/24/2005 20:52	
tert-Butyl alcohol (TBA)	4000	250	ug/L	50.00	01/24/2005 20:52	
Methyl tert-butyl ether (MTBE)	5200	25	ug/L	50.00	01/24/2005 20:52	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.7	73-130	%	50.00	01/24/2005 20:52	
Toluene-d8	107.7	81-114	%	50.00	01/24/2005 20:52	

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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 01/19/2005 14:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/01/24-2B.69

MB: 2005/01/24-2B.69-027

Date Extracted: 01/24/2005 19:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	01/24/2005 19:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	01/24/2005 19:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/24/2005 19:27	
Benzene	ND	0.5	ug/L	01/24/2005 19:27	
Toluene	ND	0.5	ug/L	01/24/2005 19:27	
Ethylbenzene	ND	0.5	ug/L	01/24/2005 19:27	
Total xylenes	ND	1.0	ug/L	01/24/2005 19:27	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	95.4	73-130	%	01/24/2005 19:27	
Toluene-d8	88.8	81-114	%	01/24/2005 19:27	

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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 01/19/2005 14:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/01/24-2B.69**

LCS 2005/01/24-2B.69-034

Extracted: 01/24/2005

Analyzed: 01/24/2005 18:34

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.7		25	98.8			65-165	20		
Benzene	26.8		25	107.2			69-129	20		
Toluene	26.3		25	105.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	444		500	88.8			73-130			
Toluene-d8	495		500	99.0			81-114			

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

01/27/2005 07:41

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 01/19/2005 14:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/01/24-2B.69**

MS/MSD

Lab ID: 2005-01-0498 - 001

MS: 2005/01/24-2B.69-015

Extracted: 01/24/2005

Analyzed: 01/24/2005 20:15

Dilution: 1.00

MSD: 2005/01/24-2B.69-031

Extracted: 01/24/2005

Analyzed: 01/24/2005 20:34

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	30.0	25.5	ND	25	120.0	102.0	16.2	65-165	20		
Benzene	30.3	26.1	ND	25	121.2	104.4	14.9	69-129	20		
Toluene	31.8	27.7	ND	25	127.2	110.8	13.8	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	497	504		500	99.4	100.8		73-130			
Toluene-d8	528	535		500	105.6	107.0		81-114			

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

01/27/2005 07:41



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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 01/19/2005 14:30

Site: 6750 Santa Rita Rd., Pleasanton, CA

---

**Legend and Notes**

---

**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present  
in the sample.



**Delta Env. Consultants San Jose**

February 08, 2005

175 Bernal Road, Suite 200  
San Jose, CA 95119

Attn.: Garrett Haertel

Project#: Consultant Project #SJ67-50S-1

Project: 97464711

Site: 6750 Santa Rita Rd., Pleasanton, CA

Dear Mr. Haertel:

Attached is our report for your samples received on 02/01/2005 10:39

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 03/18/2005 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](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 02/01/2005 10:39

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-2	01/31/2005 14:55	Water	1

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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 02/01/2005 10:39

Site: 6750 Santa Rita Rd., Pleasanton, CA

Prep(s): 5030B Test(s): 8260B  
Sample ID: MW-2 Lab ID: 2005-02-0021 - 1  
Sampled: 01/31/2005 14:55 Extracted: 2/7/2005 11:36  
Matrix: Water QC Batch#: 2005/02/07-1A.62  
Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	2500	ug/L	50.00	02/07/2005 11:36	
Benzene	ND	25	ug/L	50.00	02/07/2005 11:36	
Toluene	ND	25	ug/L	50.00	02/07/2005 11:36	
Ethylbenzene	ND	25	ug/L	50.00	02/07/2005 11:36	
Total xylenes	ND	50	ug/L	50.00	02/07/2005 11:36	
tert-Butyl alcohol (TBA)	850	250	ug/L	50.00	02/07/2005 11:36	
Methyl tert-butyl ether (MTBE)	1300	25	ug/L	50.00	02/07/2005 11:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.9	73-130	%	50.00	02/07/2005 11:36	
Toluene-d8	100.5	81-114	%	50.00	02/07/2005 11:36	

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 02/01/2005 10:39

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/02/07-1A.62-006

Water

Test(s): 8260B

QC Batch # 2005/02/07-1A.62

Date Extracted: 02/07/2005 08:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	02/07/2005 08:06	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	02/07/2005 08:06	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/07/2005 08:06	
Benzene	ND	0.5	ug/L	02/07/2005 08:06	
Toluene	ND	0.5	ug/L	02/07/2005 08:06	
Ethylbenzene	ND	0.5	ug/L	02/07/2005 08:06	
Total xylenes	ND	1.0	ug/L	02/07/2005 08:06	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.2	73-130	%	02/07/2005 08:06	
Toluene-d8	95.6	81-114	%	02/07/2005 08:06	

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 02/01/2005 10:39

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/02/07-1A.62**

LCS 2005/02/07-1A.62-041

Extracted: 02/07/2005

Analyzed: 02/07/2005 07:41

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	29.0		25	116.0			65-165	20		
Benzene	24.0		25	96.0			69-129	20		
Toluene	25.8		25	103.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	476		500	95.2			73-130			
Toluene-d8	487		500	97.4			81-114			

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

Delta Env. Consultants San Jose

Attn.: Garrett Haertel

175 Bernal Road, Suite 200

San Jose, CA 95119

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 02/01/2005 10:39

Site: 6750 Santa Rita Rd., Pleasanton, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/02/07-1A.62**

MS/MSD

Lab ID: 2005-01-0849 - 002

MS: 2005/02/07-1A.62-053

Extracted: 02/07/2005

Analyzed: 02/07/2005 09:53

Dilution: 1.00

MSD: 2005/02/07-1A.62-019

Extracted: 02/07/2005

Analyzed: 02/07/2005 10:19

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	23.1	22.4	ND	25	92.4	89.6	3.1	65-165	20		
Benzene	20.3	23.5	ND	25	81.2	94.0	14.6	69-129	20		
Toluene	22.3	25.4	0.778	25	86.1	98.5	13.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	461	455		500	92.2	91.0		73-130			
Toluene-d8	514	481		500	102.8	96.2		81-114			

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

02/08/2005 11:47



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

Delta Env. Consultants San Jose  
Attn.: Garrett Haertel

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

Project: Consultant Project #SJ67-50S-1  
97464711

Received: 02/01/2005 10:39

Site: 6750 Santa Rita Rd., Pleasanton, CA

---

Legend and Notes

---

**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present  
in the sample.





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

March 3, 2004  
Project SJ67-50S-1.2004

Mr. Scott O. Seery  
Alameda County Health Care Services  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Cone Penetration Test (CPT) Groundwater Investigation  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California**

Dear Mr. Seery:

Delta Environmental Consultants, Inc. (Delta), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), has prepared this Cone Penetration Test (CPT) Groundwater Investigation report for the site referenced above (Figure 1). Work was performed in accordance with a work plan prepared by Delta, dated May 15, 2003. In a letter to the Alameda County Health Care Services Agency (ACHCSA), dated October 28, 2003, Delta stated that they had received no response to their work plan, and were proceeding with the proposed groundwater investigation.

## **BACKGROUND**

The following section provides a brief summary of previous site data.

### **SITE DESCRIPTION**

The subject site is located in a commercial area on the southeast corner of Santa Rita Road and Pimlico Drive in Pleasanton, California (Figure 1). The property is the site of an active Shell service station, consisting of a small convenience store, a storage and restroom building, a car wash, ten fuel dispensers, and four underground fuel storage tanks (USTs). The station layout is shown on Figure 2.

Topographically, the immediate site area is fairly flat, at approximately 350 feet above mean sea level (MSL). The groundwater gradient at the site was anticipated to be towards the west-southwest, based on local topography (USGS Livermore topographic quadrangle). Quarterly gauging of four on-site groundwater monitoring wells since December 2002 has confirmed a fairly consistent southwest gradient at the site.

### **SENSITIVE RECEPTOR STUDY**

In December 2003, Delta performed a sensitive receptor survey field reconnaissance of the site area. Two water supply wells were identified within approximately 3,000 feet of the site (Figure 1). A private well (located in the parking lot of a car storage business) was identified at approximately 2,200 feet southwest of the site. This well is designated as Well 3S/1E 5R1 by the Zone 7 Water Resources Management District (Zone 7). The well is 8-inches in diameter, and has a submersible pump and an adjacent, approximately 100 gallon pressure tank. The depth of the well is reported to be 101 feet.

A municipal water supply well was field located approximately 3,200 feet southeast of the site. The well is designated as Well No. 0110010-010 (Zone 7 Stoneridge Well) by the State Water Resources Control Board (SWRCB) on-line Geotracker database, and as Well 3S/1E 9B 1 by Zone 7. Mr. Wyman Hong of Zone 7 told Delta that the first well screen is 250 feet below ground surface (bgs).

A Zone 7 flood control channel is located about 1,500 feet east-southeast of the site. No other surface water bodies, or sensitive receptors, were identified within ½-mile of the site.

### **PREVIOUS SITE INVESTIGATIONS**

#### **GRASP**

On October 8 and 9, 2002, KHM Environmental Management, Inc. (now part of Delta) supervised the drilling and installation of four groundwater monitoring wells (MW-1 through MW-4) as part of Shell's GROUNDwater ASsessment Program (GRASP). GRASP is a voluntary initiative by SHELL to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more sensitive receptors. Site monitoring well locations are shown on Figure 2.

Wells MW-1 through MW-4 are each approximately 44 feet deep, and screened from approximately 29 feet to 44 feet below grade (bg). Borings for Wells MW-1 through MW-4 primarily encountered clays, with inter-bedded sand layers below a depth of approximately 30 feet bg. Groundwater was encountered in the borings at an average depth of approximately 33 feet bg. During well installations, soil samples were collected and retained for laboratory analysis. No petroleum hydrocarbons or fuel oxygenates were detected in the soil samples submitted for analysis.

Initial groundwater samples were collected on December 20, 2002. Based on the detection of methyl tert-butyl ether (MTBE) (8,000 ug/l) and tert-butanol (TBA) (1,500 ug/l) in the initial samples, Shell submitted an Unauthorized Release Report (URR) to the Livermore-Pleasanton Fire Department, dated January 6, 2003. In response to the URR, the ACHCSA requested that Shell submit a work plan to obtain further vertical and horizontal plume definition.

#### **FUEL SYSTEM REMOVAL/REPLACEMENT**

In November 2002, site USTs, fuel dispensers, and associated product piping were removed and replaced with an upgraded system. Delta performed soil sampling during the upgrade activities under the direction of Mr. Paul Smith of the Livermore-Pleasanton Fire Department. MTBE and TBA were detected in soil and groundwater samples collected from beneath the USTs. The maximum MTBE and TBA concentrations in the soil samples from the base of the UST excavation were 2.5 milligrams per kilogram (mg/kg) and 6.1 mg/kg, respectively.

Groundwater observed in the UST excavation was collected and submitted by Delta for laboratory analysis. MTBE was detected in two water samples at concentrations of 11,000 ug/l and 8,000 ug/l. Total petroleum hydrocarbons as gasoline (TPH-G) and total petroleum hydrocarbons as diesel (TPH-D) were also detected in the water samples, at maximum concentrations of 9,300 ug/l and 55,000 ug/l, respectively. Approximately 17,000 gallons of water was pumped from the UST excavation into a 20,000 gallon Baker tank, which was transported to Shell's Martinez, California refinery for recycling.

#### **GROUNDWATER MONITORING PROGRAM**

Site wells have been gauged and sampled six times since their installation in October 2002. Quarterly monitoring reports have been routinely submitted to the ACHCSA. Oxygenates, MTBE and TBA, have been consistently detected in all four site wells (with the exception of Well MW-4, which has no TBA detections to date). Historic maximum MTBE and TBA concentrations at the site are 15,000 ug/l and 9,300 ug/l (MW-3), respectively. In May 2003, Delta implemented monthly groundwater batch extraction from Wells MW-2 and MW-3 as an interim remedial action. Current maximum MTBE and TBA concentrations in groundwater samples collected in January 2004 are 9,800 ug/l and 3,800 ug/l (MW-3), respectively.

### **CPT GROUNDWATER INVESTIGATION**

#### **CPT BORINGS**

In order to define the vertical extent of the fuel oxygenate impact at the site, Delta directed three CPT borings (CPT-1 through CPT-3) on December 18<sup>th</sup> and 19<sup>th</sup>, 2003. Boring locations are shown on Figure 2. Boring CPT-1 was located near the zone of greatest groundwater impact (Well MW-3). Borings CPT-2 and CPT-3 were located off-site to define the horizontal extent of fuel oxygenates in the downgradient direction. The borings were completed under permit from Zone 7. A copy of the permit is included as Attachment A.

Each of the three CPT locations consisted of two separate boreholes – one for stratigraphic profiling, and a second for collecting discrete groundwater samples. Prior to CPT drilling and sampling, the three locations were surveyed by a geophysical locator and marked for nearby underground utilities. Underground Services Alert (USA) was notified of the proposed borings a minimum of 48-hours before Delta began work at the site. Lastly, each borehole was air-excavated to approximately 7 feet bg in order to minimize potential damage to any unmarked underground utilities.

The CPT borings were advanced by Gregg In Situ, Inc. (Gregg) using an integrated electronic cone system. Gregg's *Presentation of Cone Penetration Test Data* report is included as Attachment B. Boring CPT-1 was pushed to a maximum depth of 117 feet bg. Borings CPT-2 and CPT-3 were pushed to maximum depths of 105 feet bg and 104 feet bg, respectively. The cone was pushed with a maximum 20 ton down pressure applied by the rig. The cone sensor measured penetration resistance, sleeve friction and pore pressure. These parameters were recorded and displayed simultaneously as the borings were advanced. Soil classification is based on a ratio that compares sleeve friction to penetration resistance. Pore pressure readings measure hydrostatic pressure, and are indicative of soil permeability. An initial soil classification print out and pore pressure graphs for each boring were interpreted by a Delta field geologist in order to determine appropriate depths at which to collect groundwater samples. Following soil profiling and interpretation, each boring was backfilled with cement grout by retraction grouting utilizing a detachable "grout collar" located near the cone tip (Attachment C).

Groundwater samples were collected using a Hydropunch® groundwater sampling system. At the depths indicated by the field geologist on site, the CPT rods were retracted exposing a PVC filter screen which allowed for groundwater infiltration. A stainless steel bailer, lowered through the rods, was then used to collect a groundwater sample from within the screened interval. Delta collected up to three discrete groundwater samples at various depths within each sampling borehole. Upon sample completion, each Hydropunch® borehole was tremmie filled with cement grout through the push rods.

## **HYDROGEOLOGY**

The CPT borings predominantly encountered fine-grained clayey and silty soils to the total depths explored. Interbedded, thin (< 5 ft thick) sandy units were encountered below a depth of approximately 45 feet in all three borings. The most sand layers were encountered at depths between approximately 45 feet and 55 feet bg (“50-foot aquifer”). A thin, but pervasive silty bed (< 3 feet thick) underlies the sand. A geologic cross-section is included as Figure 3.

Identified sandy zones were selected for Hydropunch® sampling. These zones potentially could provide for the migration of fuel oxygenates and petroleum hydrocarbons within coarse-grained preferential pathways. In Boring CPT-1 two groundwater samples were collected at the apparent sandy intervals of 56 to 59 feet bg, and 70 to 75 feet bg. Three groundwater samples were collected from Boring CPT-2 at the intervals of 47 to 51 feet bg, 80 to 85 feet bg and 98 to 103 feet bg. Three groundwater samples were also collected from Boring CPT-3 at the intervals of 46 to 51 feet bg, 72 to 75 feet bg and 97 to 100 feet bg. Groundwater samples were decanted into 40-milliliter glass VOA bottles, and placed on ice for transportation to a testing laboratory.

## **GROUNDWATER ANALYSIS**

Groundwater samples were submitted to Severn Trent Laboratories, Inc. (STL) in Pleasanton, California for analysis of the following parameters: TPH-G, benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds), MTBE, di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and tert-amyl methyl ether (TAME), and TBA by Method 8260B; and TPH-D by Method 8015M. MTBE was detected in Sample CPT-3 @ 46 at a concentration of 18 ug/l. MTBE was not detected in any other CPT groundwater samples. TPH-D was detected in Samples CPT-1 @ 56, CPT-1 @ 70, CPT-2 @ 47 and CPT-3 @ 97 at concentrations ranging from 73 ug/l to 300 ug/l. The hydrocarbons reported as TPH-D were within the early diesel range, and therefore did not match the laboratory standard for diesel. All other analytes were below the method detection limits in all groundwater samples. Groundwater analytical data is summarized in Table 1. Groundwater certified analytical results and chain-of-custody documentation from the testing laboratory are included as Attachment D. MTBE concentrations in groundwater are included on Figure 2.

## **CONCLUSIONS**

Delta concludes:

- Site area soils are characterized as predominantly fine-grained, and act to retard the horizontal and downward movement of fluids.
- First encountered groundwater is located within a sandy aquifer (< 5 feet thick) identified at approximately 50 feet bg.
- Fuel oxygenates have impacted the shallow groundwater zone.

- A fine-grained silt layer underlying the 50-foot aquifer acts as an aquitard to further vertical migration of fuel oxygenates from within the shallow groundwater.
- MTBE (comparatively low level) was detected in only one downgradient water sample, collected approximately 80 feet downgradient.
- The petroleum hydrocarbon plume appears to be concentrated on-site within the station property.
- Interim remedial actions appear to have prevented the plume from moving downgradient.
- The plume is not considered to be a threat to the nearest municipal water supply well based on the presence of an extensive fine-grained soil package (> 40 feet thick) between the impacted shallow groundwater zone, and the aquifer screened by the municipal well at 250 feet bg and approximately 3,000 ft southeast of the site.

## **RECOMMENDATIONS**

Delta recommends:

- Continued quarterly monitoring of site wells. Groundwater samples will be analyzed for TPH-G, BTEX compounds, and the five fuel oxygenates.
- Installation of a downgradient well (Well MW-5) in order to monitor the 50-foot aquifer near the location of Boring CPT-3 (Figure 2).

## **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.

March 3, 2004

Page 6

If you have any questions or comments regarding this report, please call us at (408) 224-4724.

Sincerely,

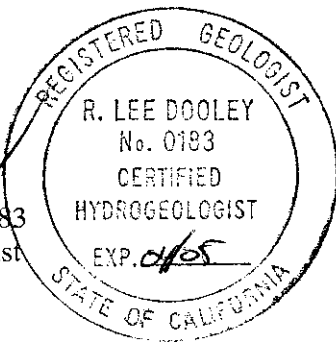
**Delta Environmental Consultants, Inc.**



Debbie Arnold  
Project Geologist



R. Lee Dooley, CHG 183  
Certified Hydrogeologist



**ATTACHMENTS:**

**TABLES:**

Table 1 – Summary of Groundwater Analytical Data

**FIGURES:**

Figure 1 – Site Location and Well Survey Map

Figure 2 – Site Area Map

Figure 3 – Geologic Cross-section

**ATTACHMENTS:**

Attachment A – Drilling Permits

Attachment B – Presentation of Cone Penetration Test Data (Gregg)

Attachment C – Retraction Grouting

Attachment D – Certified Groundwater Analytical Report and Chain-of-Custody Documents

cc: Karen Petryna, Shell Oil Products US, Carson  
Danielle Stefani, Livermore-Pleasanton Fire Department, Livermore  
Betty Graham, RWQCB, Oakland  
Matt Katen, Zone 7 Water Agency, Pleasanton



## **Tables and Figures**

---

**Table 1**  
**Summary of Groundwater Data**  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California

Sample Designation	Date Sampled	TPH-g (ug/l)	TPH-d (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylene (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)
<b>CPT-1 @ 56</b>	12/18/2003	<50	<b>130*</b>	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-1 @ 70</b>	12/18/2003	<50	<b>300*</b>	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-2 @ 47</b>	12/19/2003	<50	<b>90*</b>	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-2 @ 80</b>	12/19/2003	<50	<260	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-2 @ 98</b>	12/19/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-3 @ 46</b>	12/18/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<b>18</b>	<2.0	<2.0	<2.0	<5.0
<b>CPT-3 @ 72</b>	12/18/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0
<b>CPT-3 @ 97</b>	12/19/2003	<50	<b>73*</b>	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0

**Notes:**

All analysis performed by EPA Method 8260B, except TPH-D by EPA Method 8015

ug/l = micrograms per liter

TPH-G = Total petroleum hydrocarbons as gasoline

TPH-D = Total petroleum hydrocarbon as diesel

MTBE = Methyl tert-butyl ether

DIPE = Diisopropyl ether

ETBE = Ethyl-t-butyl ether

TAME = Tert-amyl methyl ether

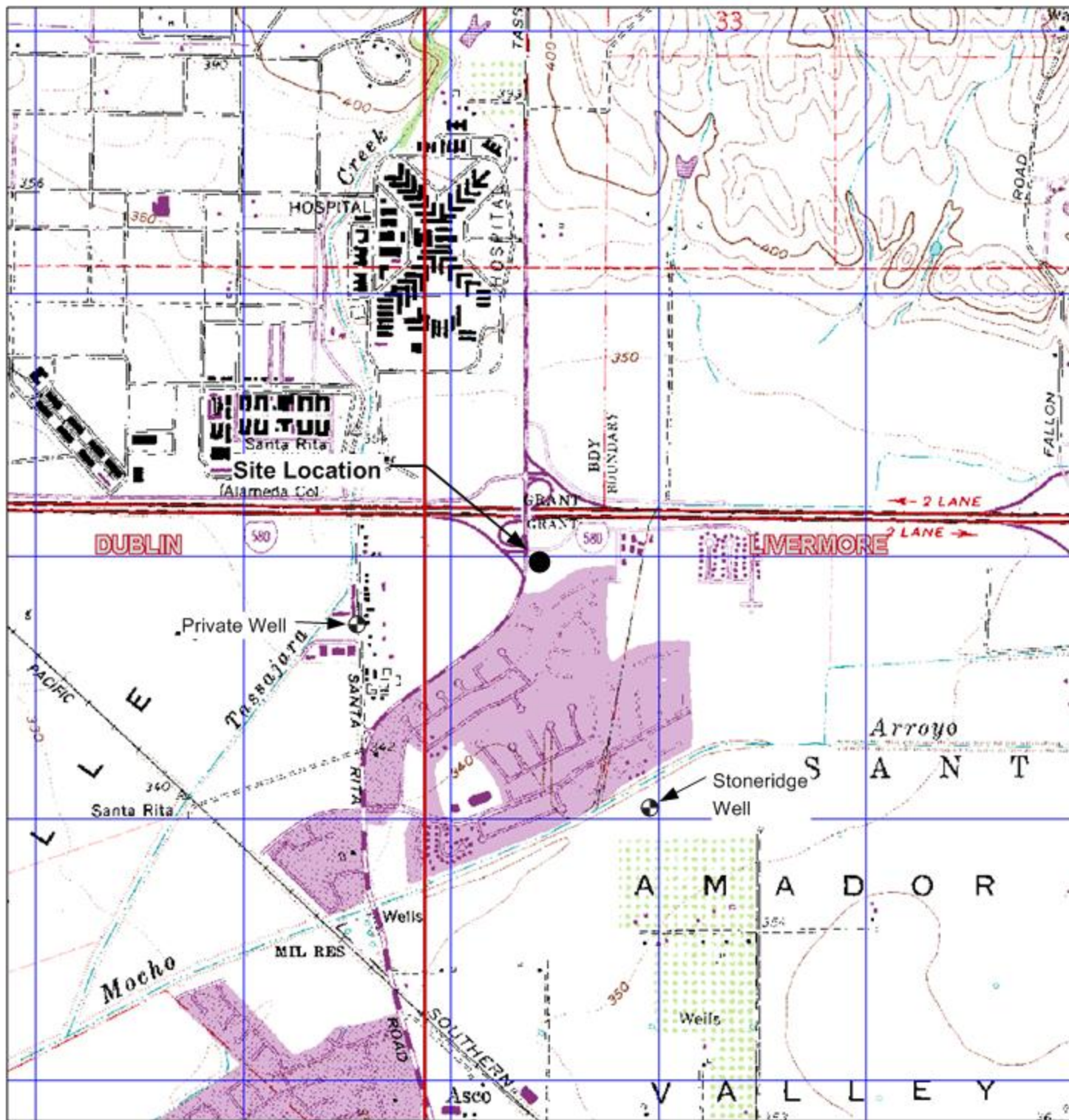
TBA = Tert-Butanol

TOC = Top of Well Casing

NM = Not measured

NA = Not analyzed

**\*Hydrocarbon reported is in the early diesel range, and does not match the laboratory's diesel standard**



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



QUADRANGLE LOCATION



Scale, Feet

FIGURE 1  
 SITE LOCATION AND WELL SURVEY MAP  
 SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF 12/04/03
FILE NO. SJ67-50S-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY





**LEGEND**

CPT-1 **CPT BORINGS**

MW-5 **PROPOSED GROUNDWATER MONITORING WELL**

MW-1 **EXISTING GROUNDWATER MONITORING WELL**

(18 ug/l) **MTBE CONCENTRATION IN 50-FOOT GROUNDWATER ZONE (MONITORING WELLS SAMPLED ON 1/6/04) (HYDROPUNCH SAMPLES COLLECTED ON 12/18-19/03)**

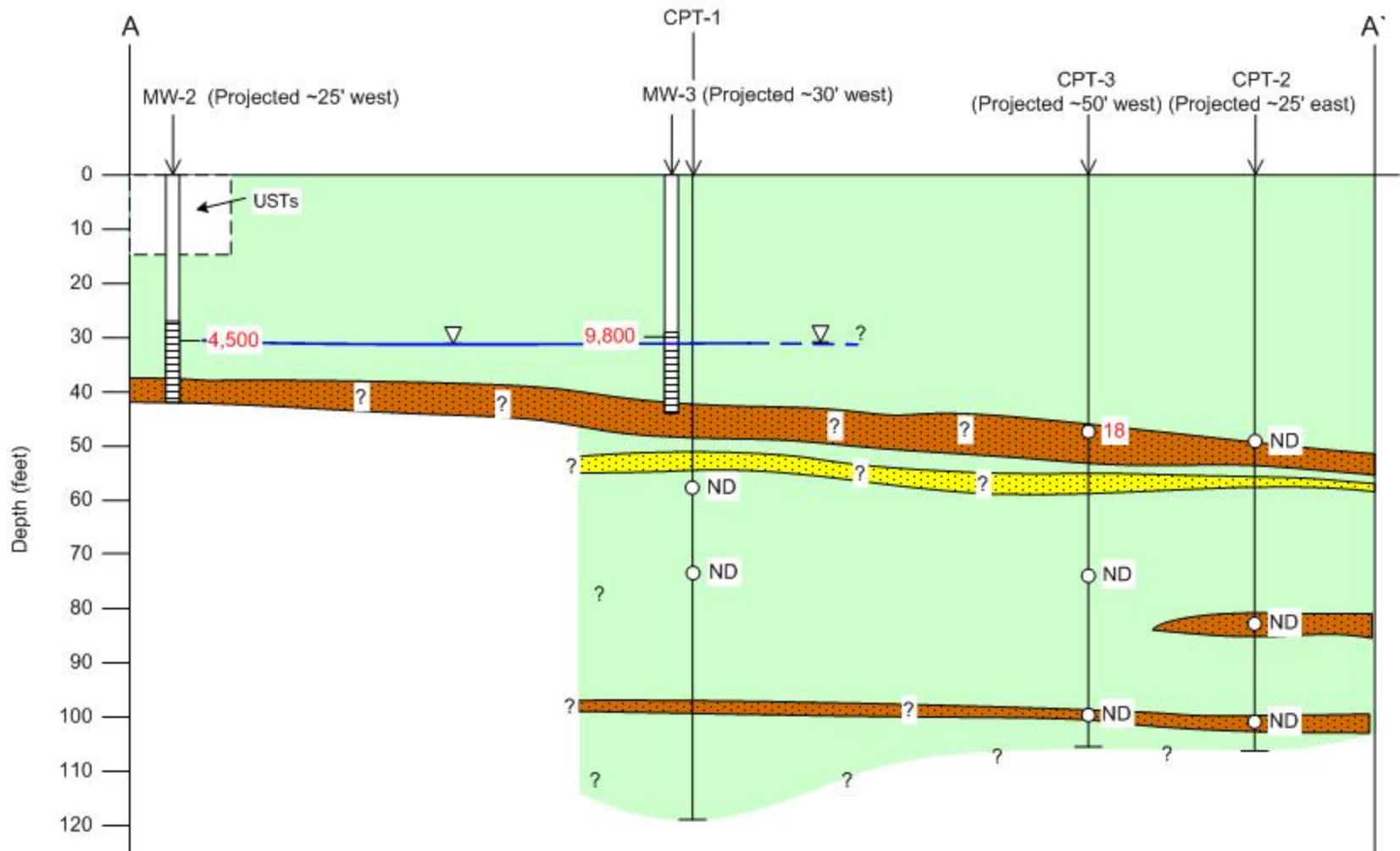
A A' **LINE OF GEOLOGIC CROSS-SECTION**



**FIGURE 2**  
**SITE AREA MAP**  
**SHELL BRANDED SERVICE STATION**  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY VF
FILE NO. SJ67-50S-1.2001	PREPARED BY
REVISION NO. 2	REVIEWED BY





**LEGEND**

- GROUNDWATER MONITORING WELL**
- WELL SCREEN INTERVAL**
- CPT BORING**
- HYDROPUNCH WATER SAMPLE**
- MTBE CONCENTRATION (UG/L)**
- NOT DETECTED AT LABORATORY REPORTING LIMIT**
- WATER TABLE, 1/6/04**

- SILTY AND CLAYEY SOILS**
- SANDS AND SILTY SANDS**
- SILTY SANDS AND SANDY SILTS**



**FIGURE 3**  
**GEOLOGIC CROSS-SECTION**  
**SHELL-BRANDED SERVICE STATION**  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SJ67-50S-1.2004	DRAWN BY V. F. 2/17/04
FILE NO. SJ67-50S-1.2004	PREPARED BY V. F.
REVISION NO. 1	REVIEWED BY

Delta

Environmental Consultants, Inc.

**Attachment A**  
**DRILLING PERMITS**

---



# 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 6750 Santa Rita Rd.  
Pleasanton, CA and 6700 Santa Rita Rd.  
Pleasanton, CA

PERMIT NUMBER 23154  
WELL NUMBER \_\_\_\_\_  
APN 946-1101-037-00 & 946-1101-039-00

California Coordinates Source \_\_\_\_\_ Accuracy± \_\_\_\_\_ ft.  
CCN \_\_\_\_\_ ft. CCE \_\_\_\_\_ ft.  
APN 946-1101-37 and 946-1101-39

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT  
Name Shell Oil Products US  
Address P.O. Box 7869 Phone 5597045-9308  
City Borwick CA Zip 94510

- 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 Management  
Address 175 Bernal Rd. Ste. 200 Fax (408) 225-8506  
City San Jose CA Phone (408) 224-4724 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 ..  
Cathodic Protection .. Other ..

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
  1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
  3. Grout placed by tremie.

PROPOSED WELL USE:  
Domestic .. Irrigation ..  
Municipal .. Remediation ..  
Industrial .. Groundwater Monitoring ..  
Dewatering .. Other \_\_\_\_\_ ..

- D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:  
Mud Rotary .. Air Rotary .. Hollow Stem Auger ..  
Cable Tool .. Direct Push .. Other CPT ..

- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY Gregs Drilling and Testing  
DRILLER'S LICENSE NO. C57-485165

- F. WELL DESTRUCTION. See attached.
- G. SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

WELL SPECIFICATIONS:  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_ ft.  
Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Surface Seal Depth \_\_\_\_\_ ft. Number \_\_\_\_\_

SOIL BORINGS:  
Number of Borings 12 Maximum \_\_\_\_\_ ft.  
Hole Diameter 3 in in. Depth 125 ft.

ESTIMATED STARTING DATE Dec. 1, 2003  
ESTIMATED COMPLETION DATE Dec 5, 2003

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

Approved Wynmah Hong Date 11/14/03  
Wynmah Hong

APPLICANT'S SIGNATURE Rebecca Wolff Date 11-7-03

ATTACH SITE PLAN OR SKETCH

**Attachment B**

---

**PRESENTATION OF CONE PENETRATION TEST DATA**



**PRESENTATION OF CONE PENETRATION TEST DATA**

**6750 SANTA RITA ROAD**

**PLEASANTON, CALIFORNIA**

**Prepared for:**

**DELTA ENVIRONMENTAL**

**Prepared by:**

**GREGG IN SITU, INC.  
Martinez, California  
03-399ma**

**Prepared on:**

**January 6, 2004**

## TABLE OF CONTENTS

### 1.0 INTRODUCTION

### 2.0 FIELD EQUIPMENT & PROCEDURES

### 3.0 CONE PENETRATION TEST DATA & INTERPRETATION

#### 3.1 CPT PLOTS

#### 3.2 INTERPRETED OUTPUT

#### 3.3 PORE PRESSURE DISSIPATION PLOTS

### APPENDIX

- Figure 1 Piezocone Figure
- Figure 2 Groundwater Sampler
- Figure 3 PPDT Correlation Figure
- Figure 4 Soil Classification Chart
- References

### ATTACHMENTS

- Interpretation Method
- Computer Diskette with ASCII Files

# PRESENTATION OF CONE PENETRATION TEST DATA

## 1.0 INTRODUCTION

This report presents the results of a Cone Penetration Testing (CPT) and in situ groundwater sampling program carried out at the site located at 6750 Santa Rita Road in Pleasanton, CA. The work was performed on December 18<sup>th</sup> and 19<sup>th</sup>, 2003. The scope of work was performed as directed by Delta Environmental personnel.

## 2.0 FIELD EQUIPMENT & PROCEDURES

The Cone Penetration Tests (CPT) were carried out by GREGG IN SITU, INC. of Martinez, CA using an integrated electronic cone system. The CPT soundings were performed in accordance with ASTM standards (D 5778-95). A 20 ton capacity cone was used for all of the soundings (figure 1). This cone has a tip area of 15 cm<sup>2</sup> and friction sleeve area of 225 cm<sup>2</sup>. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cones used during the program recorded the following parameters at 5 cm depth intervals:

- Tip Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (U)

The above parameters were printed simultaneously on a printer and stored on a computer diskette for future analysis and reference.

The pore water pressure element was located directly behind the cone tip. The pore water pressure element was 5.0 mm thick and consisted of porous plastic. Each of the elements were saturated in silicon oil under vacuum pressure prior to penetration. Pore pressure dissipations were recorded at 5 second intervals when appropriate during pauses in the penetration.

A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operating properly.

The cones were pushed using GREGG IN SITU's CPT rig, having a down pressure capacity of approximately 20 tons. Three CPT soundings were performed. The penetration tests were carried to depths of approximately 117 feet below ground surface. Test locations and depths were determined in the field by Delta Environmental personnel.

**GREGG IN SITU, INC.**

January 6, 2004  
03-399ma

DELTA ENVIRONMENTAL  
6750 Santa Rita Road  
Pleasanton, Ca.

In situ groundwater samples were taken at three locations. Groundwater samples were collected using a Hydropunch® type groundwater sampling system (figure 2). The groundwater sampler operates by pushing 1.75 inch diameter hollow rods with a retrievable tip. A stainless steel filter screen is attached to the tip. At the desired sampling depth, the rods are retracted exposing the filter screen and allowing for groundwater infiltration. A small diameter bailer is then used to collect groundwater samples through the hollow rod.

### **3.0 CONE PENETRATION TEST DATA & INTERPRETATION**

The cone penetration test data is presented in graphical form. Penetration depths are referenced to existing ground surface. This data includes CPT logs of measured soil parameters and a computer tabulation of interpreted soil types along with additional geotechnical parameters and pore pressure dissipation data.

The stratigraphic interpretation is based on relationships between cone bearing ( $q_c$ ), sleeve friction ( $f_s$ ), and penetration pore pressure ( $U$ ). The friction ratio ( $R_f$ ), which is sleeve friction divided by cone bearing, is a calculated parameter which is used to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone bearing and generate large excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little in the way of excess pore water pressures.

Pore Pressure Dissipation Tests (PPDT's) were taken at various intervals in order to measure hydrostatic water pressures and approximate depth to groundwater table. In addition, the PPDT data can be used to estimate the horizontal permeability ( $k_h$ ) of the soil. The correlation to permeability is based on the time required for 50 percent of the measured dynamic pore pressure to dissipate ( $t_{50}$ ). The PPDT correlation figure (figure 3) is provided in the Appendix.

The interpretation of soils encountered on this project was carried out using recent correlations developed by Robertson et al, 1990. It should be noted that it is not always possible to clearly identify a soil type based on  $q_c$ ,  $f_s$  and  $U$ . In these situations, experience and judgement and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type. The soil classification chart (figure 4) used to interpret soil types based on  $q_c$  and  $R_f$  is provided in the Appendix.

Interpreted output requires that depth of water be entered for calculation purposes, where depth to water is unknown an arbitrary depth in excess of 10 feet of the deepest sounding is entered as the groundwater depth.

**GREGG IN SITU, INC.**

January 6, 2004

03-399ma

DELTA ENVIRONMENTAL

6750 Santa Rita Road

Pleasanton, Ca.

We hope the information presented is sufficient for your purposes. We recommend that all data be carefully reviewed by qualified personnel to verify the data and make appropriate recommendations. If you have any questions, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,

GREGG IN SITU, INC.

Mary Walden  
Operations Manager

**APPENDIX**

# ELECTRICAL PIEZOCONE

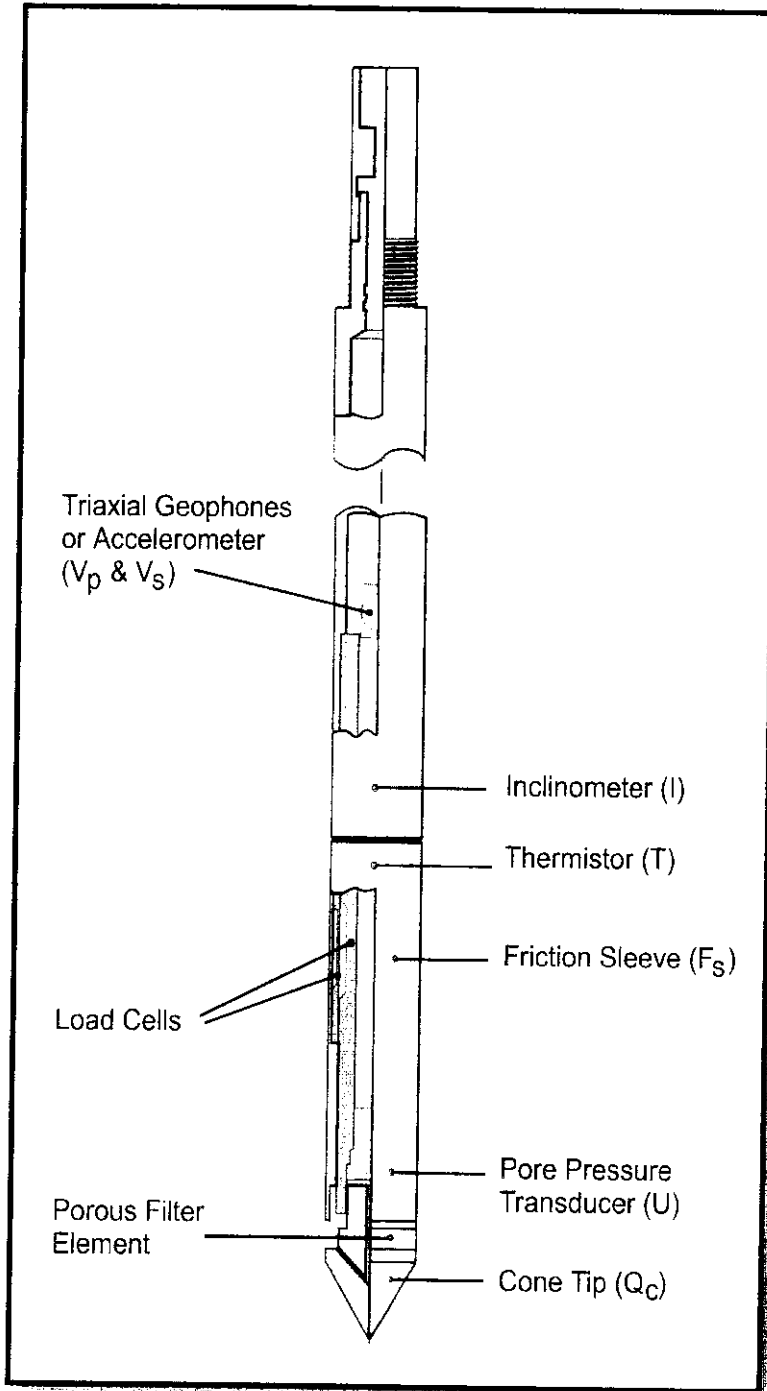


Figure 1

# GROUNDWATER SAMPLER (HYDROPUNCH)

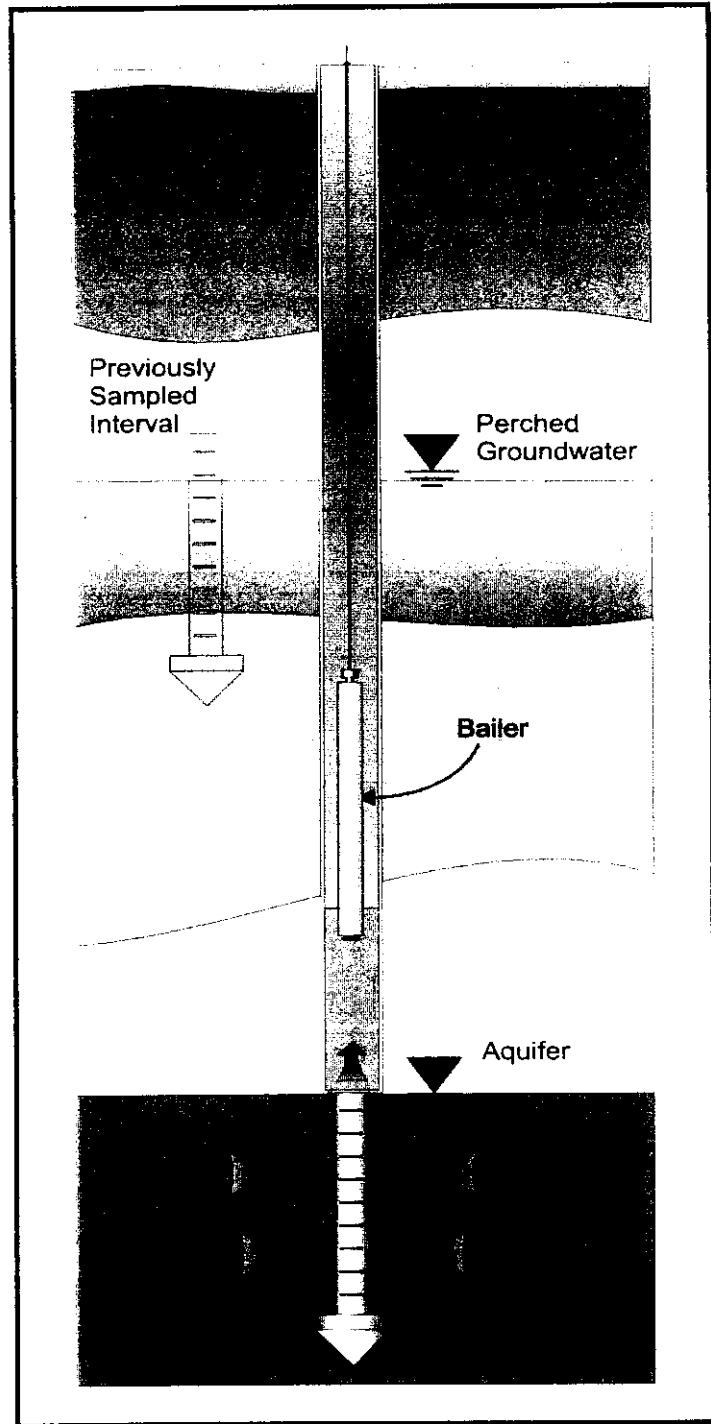


Figure 2



# PPDT CORRELATION

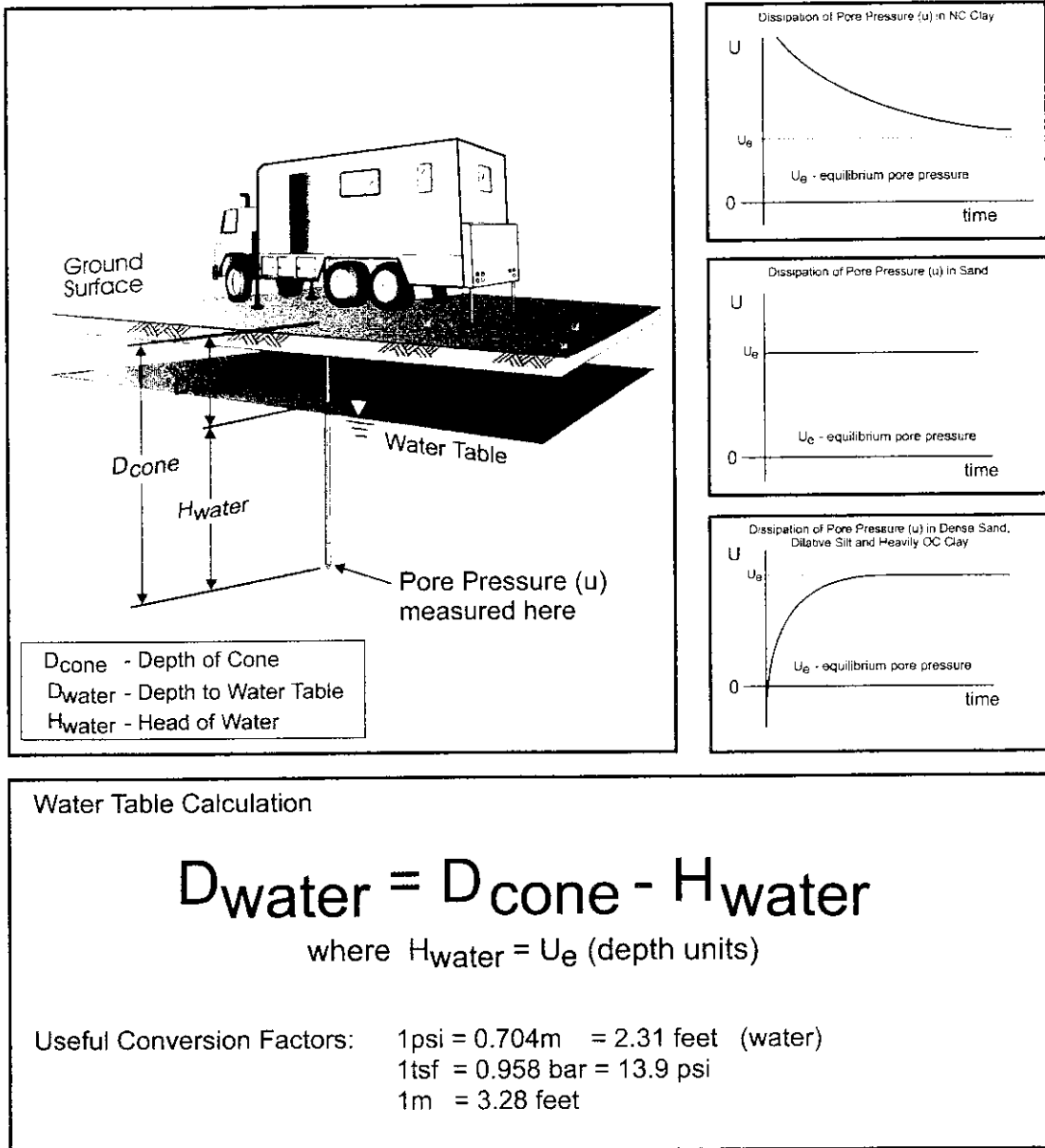
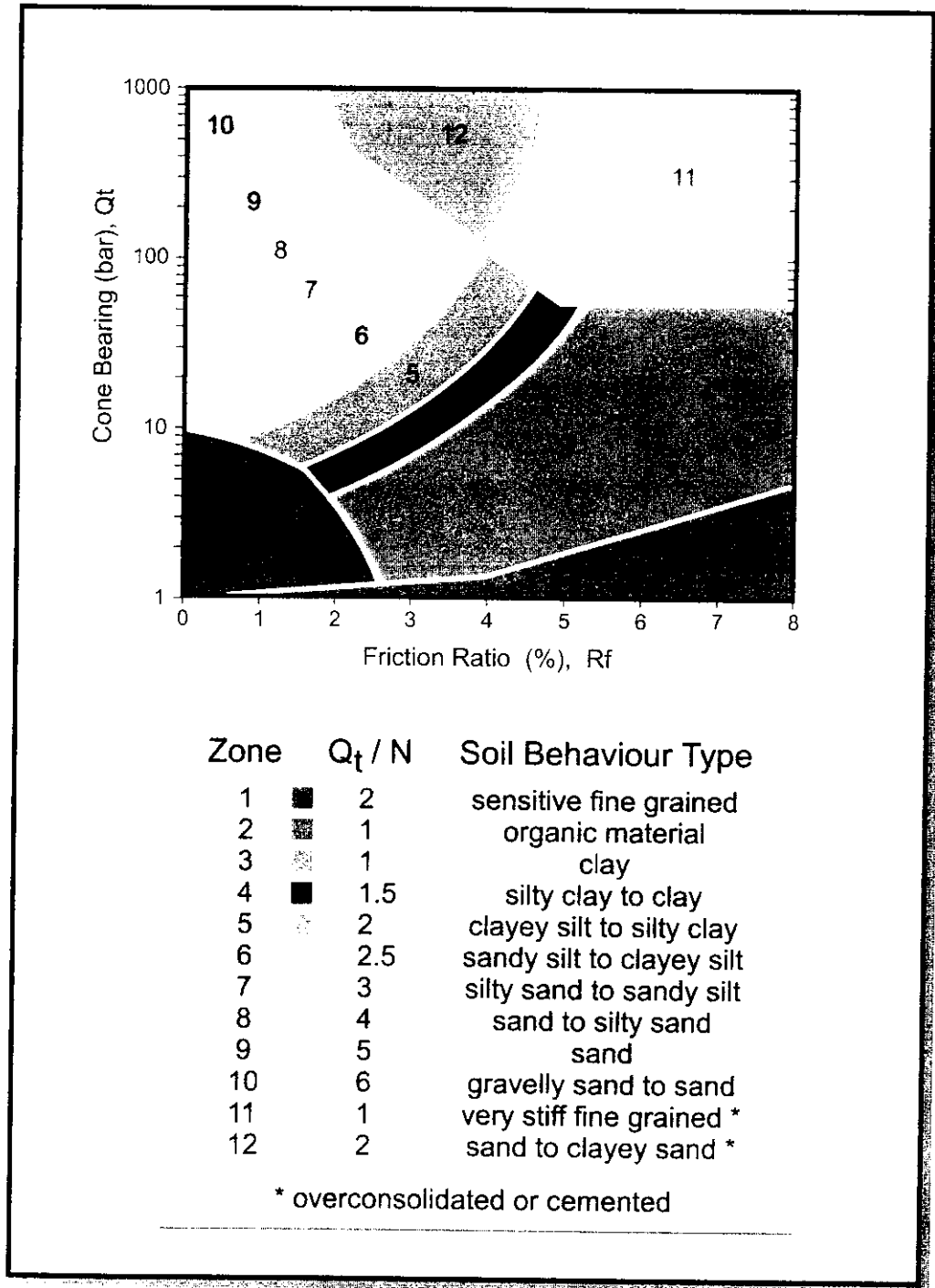


Figure 3

# SOIL CLASSIFICATION CHART



After Robertson and Campanella

Figure 4

## REFERENCES

- Robertson, P.K. and Campanella, R.G. and Wightman, A., 1983 "SPT-CPT Correlations", Journal of the Geotechnical Division, ASCE, Vol. 109, No. GT11, Nov., pp. 1449-1460.
- Robertson, P.K. and Wride C.E., 1998 "Evaluating Cyclic Liquefaction Potential Using The Cone Penetration Test", Journal of Geotechnical Division, Mar. 1998, pp. 442-459.
- Robertson, P.K. and Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of In Situ 86, ASCE Specialty Conference, Blacksburg, Virginia.
- Robertson, P.K. and Campanella, R.G., 1988, "Guidelines for Use, Interpretation and Application of the CPT and CPTU", UBC, Soil Mechanics Series No. 105, Civil Eng. Dept., Vancouver, B.C., V6T 1W5, Canada.
- Robertson, P.K., Campanella, R.G., Gillespie, D. and Rice, A., 1986, "Seismic CPT to Measure In Situ Shear Wave Velocity", Journal of Geotechnical Engineering, ASCE, Vol. 112, No. 8, pp. 791-803.

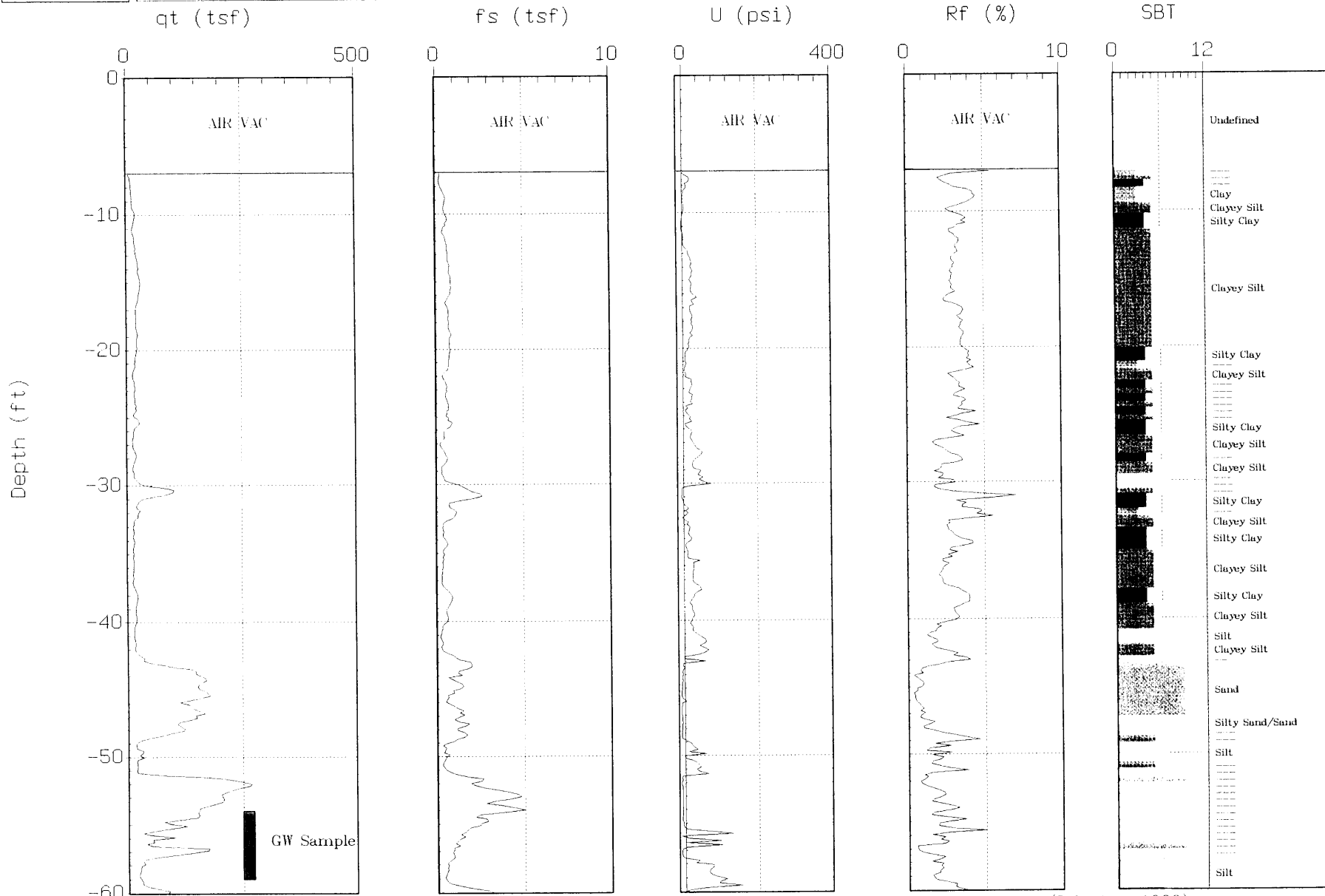
## 3.1 CPT PLOTS



# DELTA

Site : 6750 SANTA RITA  
Location : CPT-01

Geologist : D. ARNOLD  
Date : 12:18:03 08:33



Max. Depth: 116.96 (ft)

Depth Inc.: 0.164 (ft)

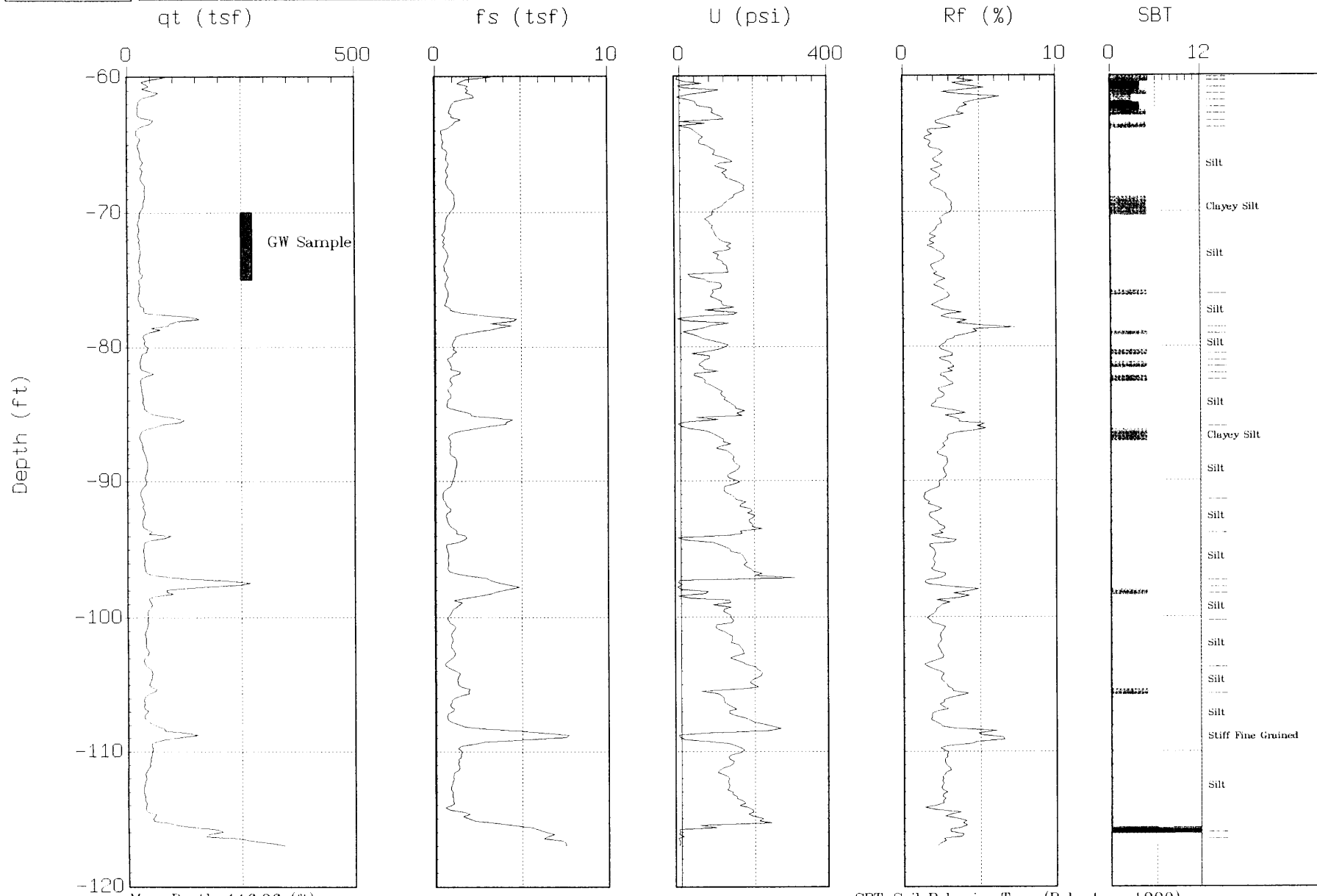
SBT: Soil Behavior Type (Robertson 1990)



# DELTA

Site : 6750 SANTA RITA  
Location : CPT-01

Geologist : D. ARNOLD  
Date : 12:18:03 08:33



Max. Depth: 116.96 (ft)

Depth Inc.: 0.164 (ft)

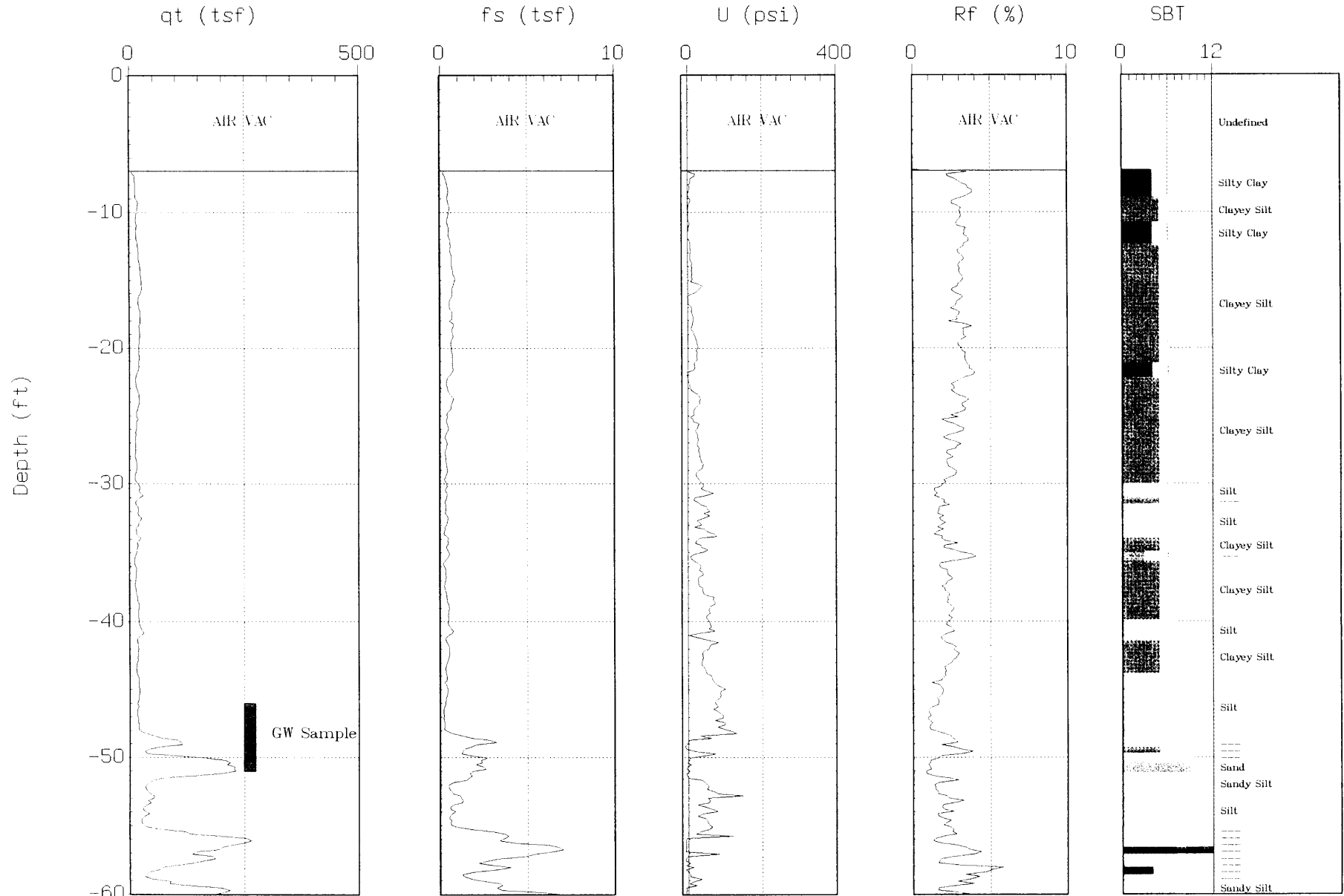
SBT: Soil Behavior Type (Robertson 1990)



# DELTA

Site : 6750 SANTA RITA  
Location : CPT-02

Geologist : D. ARNOLD  
Date : 12:19:03 09:54



Max. Depth: 105.15 (ft)

Depth Inc.: 0.164 (ft)

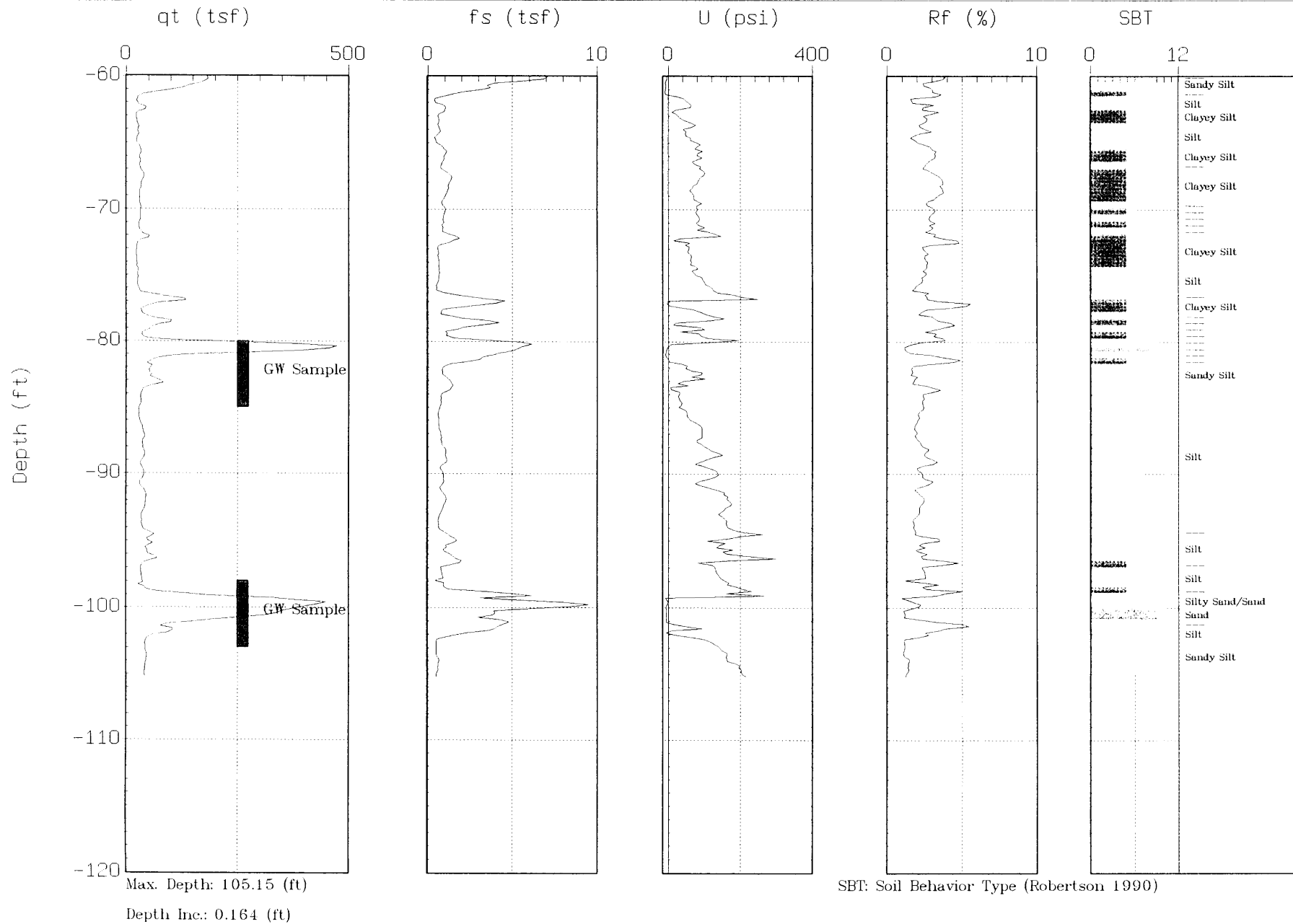
SBT: Soil Behavior Type (Robertson 1990)



# DELTA

Site : 6750 SANTA RITA  
Location : CPT-02

Geologist : D. ARNOLD  
Date : 12:19:03 09:54



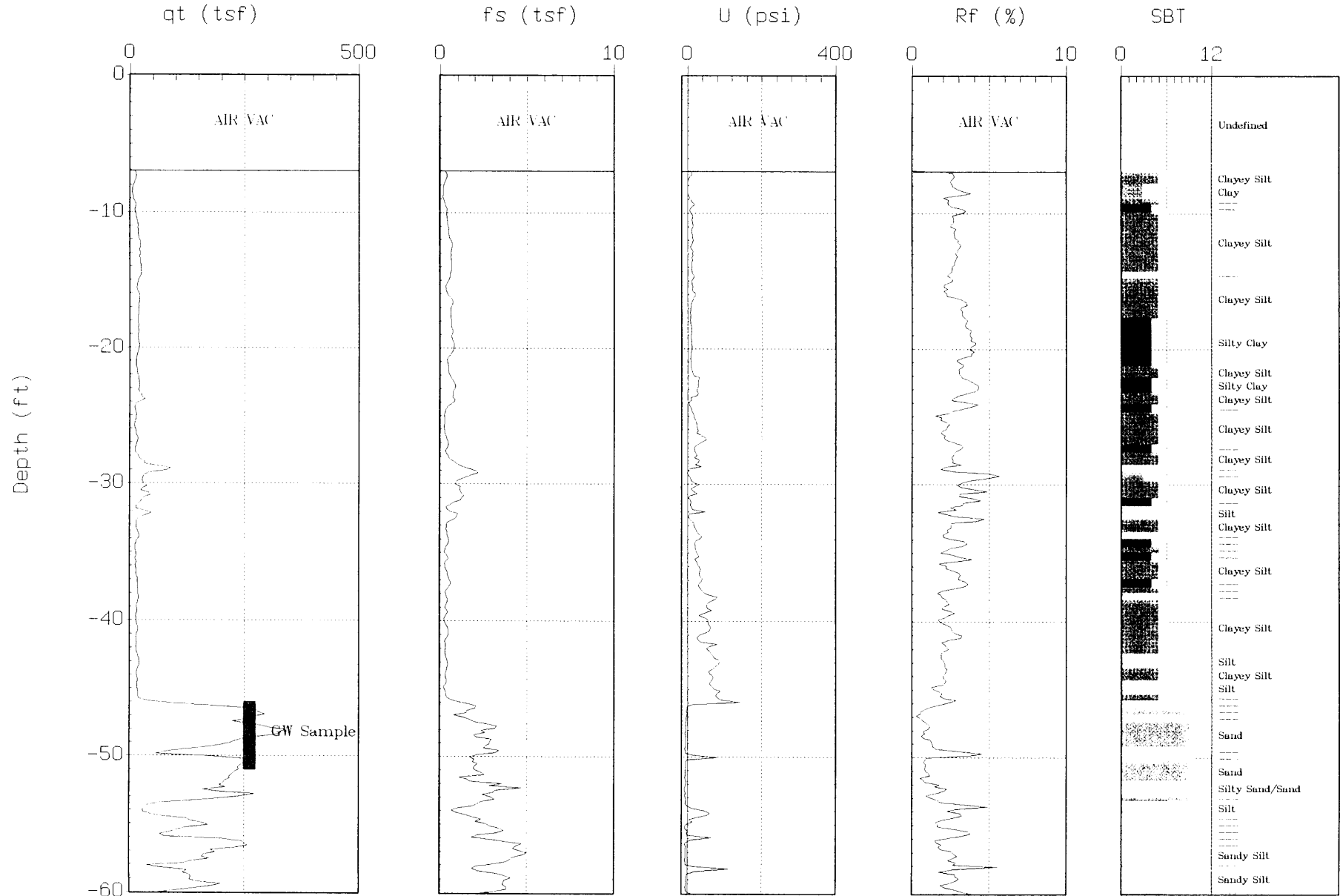




# DELTA

Site : 6750 SANTA RITA  
Location : CPT-03

Geologist : D. ARNOLD  
Date : 12:18:03 14:13



Max. Depth: 104.00 (ft)

Depth Inc.: 0.164 (ft)

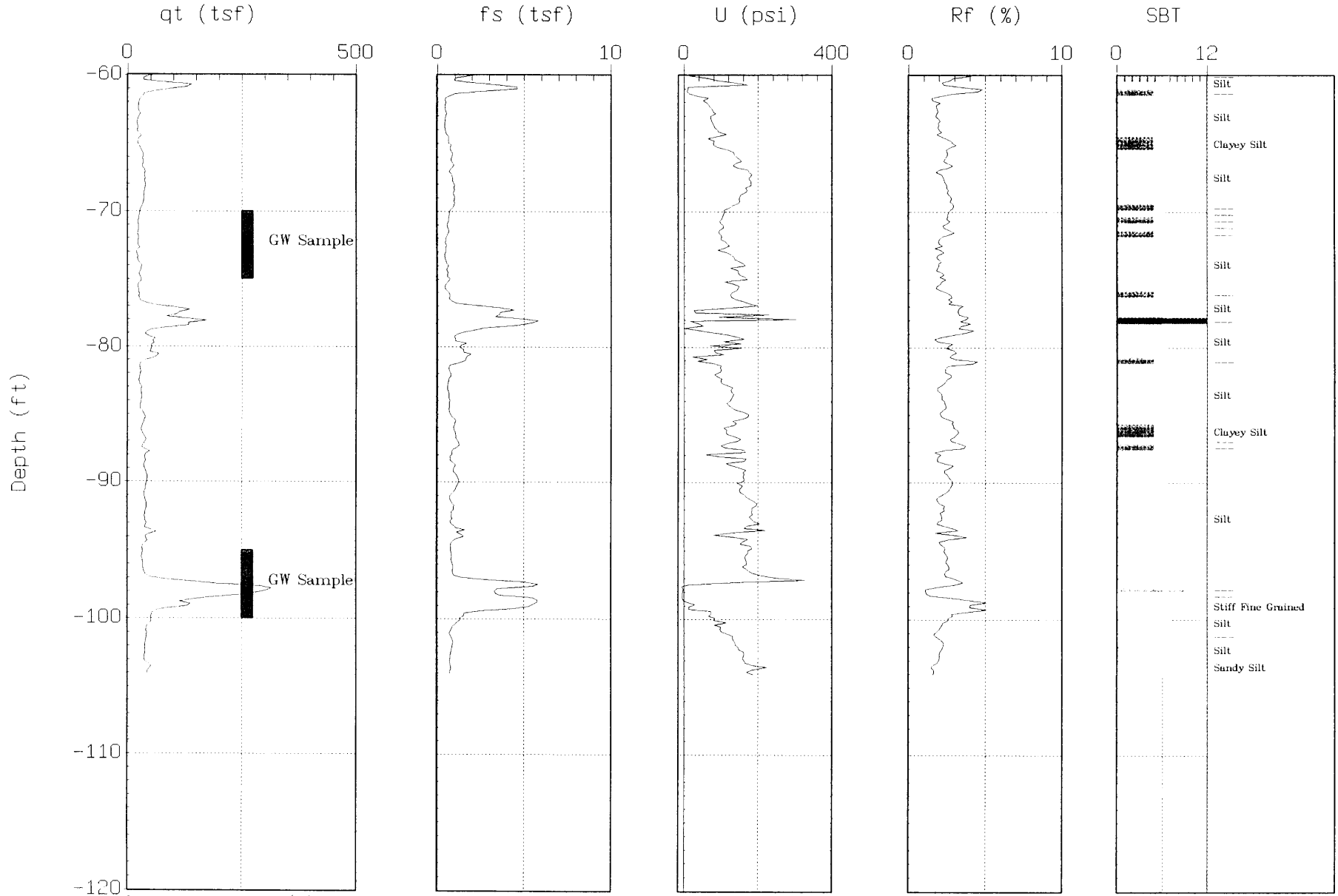
SBT: Soil Behavior Type (Robertson 1990)



# DELTA

Site : 6750 SANTA RITA  
Location : CPT-03

Geologist : D. ARNOLD  
Date : 12:18:03 14:13



Max. Depth: 104.00 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

## 3.2 INTERPRETED OUTPUT

Gregg In Situ, Inc.

Interpretation Output - Release 1.00.19e

Run No: 04-0105-1555-4128

Job No: 03-399ma

Client: DELTA

Project: CPT SITE INVESTIGATION

Site: 6750 SANTA RITA

Location: CPT-01

Engineer: D. ARNOLD

CPT Date: 03/18/12

CPT Time: 08:33

CPT File: 399C01.COR

Northing (m): 0.000

Easting (m): 0.000

Elevation (m): 0.000

Water Table (m): 13.72 (ft): 45.0

Su Nkt used: 12.50

Averaging Increment (m): 0.30

Phi Method : Robertson and Campanella, 1983

Dr Method : Jamiolkowski - All Sands

State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	0.0	0.00	0.00	0.0	UnDef	124.1	0.34	0.34	0.00	1.73	UnDef	UnDef	UnDef	0.00
6.40	0.0	0.00	0.00	0.0	UnDef	124.1	0.40	0.40	0.00	1.59	UnDef	UnDef	UnDef	0.00
7.30	8.3	0.23	2.76	29.7	4	114.6	0.45	0.45	0.00	1.49	5.3	7.9	0.63	0.10
8.20	11.1	0.39	3.56	16.0	3	111.4	0.50	0.50	0.00	1.41	10.6	15.0	0.85	0.12
9.19	13.3	0.51	3.83	6.6	3	111.4	0.56	0.56	0.00	1.34	12.7	17.1	1.02	0.14
10.17	17.6	0.58	3.31	2.4	4	114.6	0.61	0.61	0.00	1.28	11.3	14.4	1.36	0.20
11.15	14.3	0.45	3.18	-1.8	4	114.6	0.67	0.67	0.00	1.22	9.1	11.1	1.09	0.14
12.14	18.3	0.60	3.28	9.1	5	114.6	0.73	0.73	0.00	1.17	8.8	10.3	1.41	0.19
13.21	22.6	0.69	3.08	45.0	5	114.6	0.79	0.79	0.00	1.13	10.8	12.2	1.74	0.26

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4128  
 CPT File: 399C01.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
14.27	26.7	0.78	2.92	54.3	5	114.6	0.85	0.85	0.00	1.09	12.8	13.9	2.06	0.34
15.26	28.7	0.83	2.90	50.4	5	114.6	0.90	0.90	0.00	1.05	13.7	14.4	2.22	0.38
16.24	23.7	0.64	2.71	66.8	5	114.6	0.96	0.96	0.00	1.02	11.4	11.6	1.82	0.23
17.22	19.9	0.69	3.49	50.8	4	114.6	1.02	1.02	0.00	0.99	12.7	12.6	1.51	0.16
18.21	20.8	0.73	3.49	57.7	4	114.6	1.07	1.07	0.00	0.97	13.3	12.8	1.57	0.17
19.19	22.1	0.79	3.58	43.9	4	114.6	1.13	1.13	0.00	0.94	14.1	13.3	1.68	0.18
20.18	20.0	0.76	3.80	23.3	4	114.6	1.19	1.19	0.00	0.92	12.8	11.8	1.51	0.00
21.16	16.4	0.66	4.05	13.5	3	111.4	1.24	1.24	0.00	0.90	15.7	14.1	1.21	0.00
22.15	14.7	0.45	3.07	34.4	5	114.6	1.30	1.30	0.00	0.88	7.0	6.2	1.07	0.10
23.13	16.7	0.56	3.33	48.3	4	114.6	1.35	1.35	0.00	0.86	10.7	9.2	1.23	0.00
24.11	18.5	0.65	3.53	35.2	4	114.6	1.41	1.41	0.00	0.84	11.8	10.0	1.37	0.00
25.10	20.9	0.71	3.39	33.2	5	114.6	1.47	1.47	0.00	0.83	10.0	8.3	1.56	0.00
26.08	14.3	0.50	3.49	40.1	4	114.6	1.52	1.52	0.00	0.81	9.1	7.4	1.02	0.00
27.07	13.8	0.29	2.12	71.9	5	114.6	1.58	1.58	0.00	0.80	6.6	5.3	0.98	0.09
28.05	17.1	0.53	3.12	83.8	5	114.6	1.64	1.64	0.00	0.78	8.2	6.4	1.24	0.00
29.04	14.9	0.32	2.13	89.7	5	114.6	1.69	1.69	0.00	0.77	7.1	5.5	1.06	0.10
30.02	63.3	1.30	2.06	67.1	7	117.8	1.75	1.75	0.00	0.76	20.2	15.3	UnDef	0.30
31.00	39.3	1.69	4.30	-7.3	4	114.6	1.81	1.81	0.00	0.74	25.1	18.7	3.00	0.00
31.99	22.3	0.97	4.36	15.0	3	111.4	1.86	1.86	0.00	0.73	21.4	15.7	1.64	0.00
32.97	13.4	0.38	2.82	27.0	5	114.6	1.92	1.92	0.00	0.72	6.4	4.6	0.92	0.00
33.96	13.6	0.48	3.54	30.9	4	114.6	1.97	1.97	0.00	0.71	8.7	6.2	0.93	0.00
34.94	12.9	0.39	2.99	21.0	4	114.6	2.03	2.03	0.00	0.70	8.3	5.8	0.87	0.00
35.92	13.6	0.32	2.35	66.2	5	114.6	2.09	2.09	0.00	0.69	6.5	4.5	0.92	0.09
36.91	12.7	0.28	2.18	62.0	5	114.6	2.14	2.14	0.00	0.68	6.1	4.2	0.85	0.09
37.89	20.3	0.72	3.55	78.3	4	114.6	2.20	2.20	0.00	0.67	12.9	8.7	1.45	0.00
38.88	18.2	0.63	3.48	46.7	4	114.6	2.26	2.26	0.00	0.67	11.6	7.7	1.28	0.00
39.86	17.3	0.50	2.88	50.5	5	114.6	2.31	2.31	0.00	0.66	8.3	5.5	1.20	0.00
40.85	14.2	0.23	1.64	80.0	6	114.6	2.37	2.37	0.00	0.65	5.4	3.5	0.95	0.09
41.83	16.9	0.33	1.94	126.0	6	114.6	2.42	2.42	0.00	0.64	6.5	4.2	1.16	0.09
42.81	53.6	1.50	2.79	31.8	6	114.6	2.48	2.48	0.00	0.63	20.5	13.0	4.09	0.00
43.80	156.1	1.18	0.75	-10.9	9	124.1	2.54	2.54	0.00	0.63	29.9	18.8	UnDef	0.26
44.78	161.2	1.20	0.74	-16.2	9	124.1	2.60	2.60	0.00	0.62	30.9	19.1	UnDef	0.26
45.77	143.4	0.64	0.44	-12.9	9	124.1	2.66	2.64	0.02	0.62	27.5	16.9	UnDef	0.14
46.75	149.8	1.25	0.83	-18.3	9	124.1	2.72	2.67	0.05	0.61	28.7	17.6	UnDef	0.25
47.74	111.3	1.38	1.24	-16.7	8	120.9	2.78	2.70	0.09	0.61	26.6	16.2	UnDef	0.25
48.72	34.4	0.98	2.85	4.7	5	114.6	2.84	2.73	0.12	0.61	16.5	10.0	2.52	0.18

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4128  
 CPT File: 399C01.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
49.70	25.9	0.46	1.79	47.4	6	114.6	2.90	2.75	0.15	0.60	9.9	6.0	1.84	0.12
50.69	18.2	0.41	2.24	77.2	5	114.6	2.95	2.78	0.18	0.60	8.7	5.2	1.22	0.09
51.67	206.7	1.98	0.96	7.3	9	124.1	3.01	2.80	0.21	0.60	39.6	23.6	UnDef	0.43
52.66	214.7	3.96	1.85	-16.3	8	120.9	3.07	2.83	0.24	0.59	51.4	30.5	UnDef	0.00
53.64	170.7	3.84	2.25	-16.9	7	117.8	3.13	2.86	0.27	0.59	54.5	32.2	UnDef	0.00
54.63	120.4	2.50	2.08	-16.2	7	117.8	3.19	2.89	0.30	0.59	38.4	22.6	UnDef	0.00
55.61	64.6	1.50	2.33	78.8	6	114.6	3.25	2.92	0.33	0.59	24.7	14.5	4.91	0.00
56.59	106.1	0.98	0.92	70.4	8	120.9	3.30	2.94	0.36	0.58	25.4	14.8	UnDef	0.20
57.58	47.0	0.72	1.52	46.0	7	117.8	3.36	2.97	0.39	0.58	15.0	8.7	UnDef	0.30
58.56	24.4	0.46	1.87	179.8	6	114.6	3.42	3.00	0.42	0.58	9.4	5.4	1.68	0.11
59.55	57.0	1.78	3.13	153.7	6	114.6	3.48	3.02	0.45	0.58	21.8	12.5	4.28	0.00
60.53	42.0	1.71	4.07	68.9	5	114.6	3.53	3.05	0.48	0.57	20.1	11.5	3.08	0.00
61.52	40.6	1.68	4.13	70.5	5	114.6	3.59	3.07	0.52	0.57	19.5	11.1	2.96	0.00
62.42	23.3	0.90	3.85	188.7	4	114.6	3.64	3.10	0.54	0.57	14.9	8.5	1.58	0.00
63.32	41.3	1.06	2.57	127.0	6	114.6	3.69	3.12	0.57	0.57	15.8	9.0	3.01	0.22
64.30	24.0	0.40	1.65	116.9	6	114.6	3.75	3.15	0.60	0.56	9.2	5.2	1.62	0.11
65.29	26.0	0.56	2.16	189.1	6	114.6	3.81	3.17	0.63	0.56	9.9	5.6	1.77	0.11
66.27	31.2	0.71	2.26	270.1	6	114.6	3.86	3.20	0.66	0.56	12.0	6.7	2.19	0.14
67.26	31.7	0.68	2.14	300.7	6	114.6	3.92	3.22	0.69	0.56	12.2	6.8	2.23	0.14
68.24	38.5	0.88	2.28	383.3	6	114.6	3.98	3.25	0.73	0.55	14.8	8.2	2.76	0.19
69.22	36.2	1.12	3.09	285.8	5	114.6	4.03	3.28	0.76	0.55	17.3	9.6	2.57	0.00
70.21	26.7	0.74	2.77	186.8	5	114.6	4.09	3.30	0.79	0.55	12.8	7.0	1.81	0.00
71.19	24.3	0.51	2.12	205.0	6	114.6	4.14	3.33	0.82	0.55	9.3	5.1	1.61	0.11
72.18	26.5	0.49	1.87	278.9	6	114.6	4.20	3.35	0.85	0.55	10.1	5.5	1.78	0.11
73.16	27.3	0.68	2.50	244.9	6	114.6	4.26	3.38	0.88	0.54	10.4	5.7	1.84	0.12
74.15	28.3	0.56	1.98	248.6	6	114.6	4.31	3.40	0.91	0.54	10.8	5.9	1.92	0.12
75.13	27.1	0.63	2.33	192.0	6	114.6	4.37	3.43	0.94	0.54	10.4	5.6	1.82	0.11
76.11	25.0	0.70	2.78	212.3	5	114.6	4.43	3.45	0.97	0.54	12.0	6.4	1.64	0.00
77.10	41.3	1.10	2.66	284.0	6	114.6	4.48	3.48	1.00	0.54	15.8	8.5	2.95	0.20
78.08	105.9	3.98	3.76	124.2	6	114.6	4.54	3.51	1.03	0.53	40.6	21.7	8.11	0.00
79.07	43.9	1.74	3.96	105.6	5	114.6	4.60	3.53	1.06	0.53	21.0	11.2	3.15	0.00
80.05	39.4	1.05	2.66	214.5	6	114.6	4.65	3.56	1.09	0.53	15.1	8.0	2.78	0.18
81.04	28.4	0.83	2.92	149.1	5	114.6	4.71	3.58	1.13	0.53	13.6	7.2	1.89	0.00
82.02	38.7	1.06	2.74	139.0	6	114.6	4.76	3.61	1.16	0.53	14.8	7.8	2.71	0.17
83.00	30.6	0.83	2.72	210.8	6	114.6	4.82	3.63	1.19	0.52	11.7	6.1	2.06	0.00
83.99	34.4	0.74	2.16	295.2	6	114.6	4.88	3.66	1.22	0.52	13.2	6.9	2.36	0.14

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4128  
 CPT File: 399C01.COR

Page: 4a

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
84.97	72.1	2.36	3.28	300.6	6	114.6	4.93	3.69	1.25	0.52	27.6	14.4	5.37	0.00
85.96	58.8	2.63	4.47	69.2	5	114.6	4.99	3.71	1.28	0.52	28.2	14.6	4.31	0.00
86.94	29.7	0.82	2.75	258.8	5	114.6	5.05	3.74	1.31	0.52	14.2	7.4	1.97	0.00
87.93	37.9	0.95	2.50	299.1	6	114.6	5.10	3.76	1.34	0.52	14.5	7.5	2.62	0.16
88.91	43.1	1.17	2.71	344.4	6	114.6	5.16	3.79	1.37	0.51	16.5	8.5	3.03	0.20
89.89	39.1	0.98	2.51	313.4	6	114.6	5.22	3.81	1.40	0.51	15.0	7.7	2.71	0.17
90.88	30.3	0.47	1.54	303.2	6	114.6	5.27	3.84	1.43	0.51	11.6	5.9	2.00	0.12
91.86	35.8	0.70	1.96	407.3	6	114.6	5.33	3.87	1.46	0.51	13.7	7.0	2.44	0.15
92.85	33.9	0.70	2.07	443.1	6	114.6	5.38	3.89	1.49	0.51	13.0	6.6	2.29	0.14
93.83	60.5	1.43	2.37	263.0	6	114.6	5.44	3.92	1.52	0.51	23.2	11.7	4.41	0.39
94.82	35.2	0.74	2.11	282.7	6	114.6	5.50	3.94	1.56	0.50	13.5	6.8	2.37	0.14
95.80	36.5	0.72	1.97	399.6	6	114.6	5.55	3.97	1.59	0.50	14.0	7.0	2.47	0.15
96.78	88.4	1.79	2.02	426.3	7	117.8	5.61	3.99	1.62	0.50	28.2	14.1	UnDef	0.00
97.77	157.6	3.94	2.50	49.6	7	117.8	5.67	4.02	1.65	0.50	50.3	25.2	UnDef	0.00
98.75	51.0	1.52	2.98	194.1	6	114.6	5.73	4.05	1.68	0.50	19.5	9.8	3.62	0.26
99.74	44.3	0.82	1.84	296.5	7	117.8	5.78	4.07	1.71	0.50	14.1	7.1	UnDef	0.20
100.72	41.1	0.98	2.38	258.2	6	114.6	5.84	4.10	1.74	0.50	15.8	7.9	2.82	0.17
101.70	39.1	0.91	2.33	332.5	6	114.6	5.90	4.13	1.77	0.50	15.0	7.5	2.66	0.16
102.69	40.7	0.98	2.41	358.5	6	114.6	5.95	4.15	1.80	0.50	15.6	7.8	2.78	0.17
103.67	44.6	0.88	1.96	455.5	6	114.6	6.01	4.18	1.83	0.50	17.1	8.6	3.09	0.19
104.66	49.5	1.30	2.62	462.3	6	114.6	6.07	4.20	1.86	0.50	19.0	9.5	3.48	0.23
105.64	45.5	1.52	3.33	250.8	5	114.6	6.12	4.23	1.89	0.50	21.8	10.9	3.15	0.00
106.63	37.1	0.89	2.39	302.8	6	114.6	6.18	4.25	1.92	0.50	14.2	7.1	2.48	0.14
107.61	45.4	0.96	2.11	450.4	6	114.6	6.24	4.28	1.95	0.50	17.4	8.7	3.14	0.20
108.59	106.5	5.71	5.36	215.5	11	130.5	6.30	4.31	1.99	0.50	102.0	51.0	UnDef	0.00
109.58	52.9	1.76	3.33	329.6	5	114.6	6.36	4.34	2.02	0.50	25.3	12.7	3.72	0.00
110.56	48.5	1.33	2.75	309.1	6	114.6	6.41	4.37	2.05	0.50	18.6	9.3	3.37	0.22
111.55	40.1	1.11	2.76	261.6	6	114.6	6.47	4.39	2.08	0.50	15.3	7.7	2.69	0.00
112.53	35.2	0.90	2.56	296.8	6	114.6	6.53	4.42	2.11	0.50	13.5	6.7	2.29	0.00
113.52	37.5	0.93	2.48	358.6	6	114.6	6.58	4.44	2.14	0.50	14.4	7.2	2.47	0.14
114.50	49.0	1.38	2.81	447.2	6	114.6	6.64	4.47	2.17	0.50	18.8	9.4	3.39	0.22
115.48	134.9	4.67	3.46	226.0	6	114.6	6.69	4.49	2.20	0.50	51.7	25.8	10.25	0.00

Gregg In Situ, Inc.  
 Interpretation Output - Release 1.00.19e  
 Run No: 04-0105-1555-4128  
 Job No: 03-399ma  
 Client: DELTA  
 Project: CPT SITE INVESTIGATION  
 Site: 6750 SANTA RITA  
 Location: CPT-01  
 Engineer: D. ARNOLD  
 CPT Date: 03/18/12  
 CPT Time: 08:33  
 CPT File: 399C01.COR  
 Northing (m): 0.000  
 Easting (m): 0.000  
 Elevation (m): 0.000

Water Table (m): 13.72 (ft): 45.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiolkowski - All Sands  
 State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del Param	(n1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
6.40	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
7.30	5.0E-07	0.12	17.4	2.92	6	12.1	48.3	60.4	45.7	UnDef	UnDef	6.0	UnDef	7.9	15.8
8.20	5.0E-08	0.05	21.1	3.73	6	15.3	61.2	76.5	45.7	UnDef	UnDef	6.0	UnDef	15.0	30.0
9.19	5.0E-08	0.02	22.9	4.00	6	17.4	69.8	87.2	45.3	UnDef	UnDef	6.0	UnDef	17.1	34.1
10.17	5.0E-07	0.00	27.8	3.42	6	22.1	88.2	110.3	39.4	UnDef	UnDef	6.0	UnDef	14.4	28.8
11.15	5.0E-07	0.00	20.3	3.33	6	17.1	68.3	85.3	44.7	UnDef	UnDef	6.0	UnDef	11.1	22.3
12.14	5.0E-06	0.02	24.2	3.41	6	21.0	84.1	105.1	41.8	UnDef	UnDef	6.0	UnDef	10.3	20.6
13.21	5.0E-06	0.06	27.7	3.19	6	24.9	99.6	124.5	38.4	UnDef	UnDef	6.0	UnDef	12.2	24.4



Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
14.27	5.0E-06	0.07	30.5	3.02	6	28.3	113.4	141.7	36.0	UnDef	UnDef	6.0	UnDef	13.9	27.7
15.26	5.0E-06	0.06	30.7	2.99	6	29.5	118.0	147.5	35.8	UnDef	UnDef	6.0	UnDef	14.4	28.9
16.24	5.0E-06	0.09	23.7	2.83	6	23.7	94.7	118.4	39.4	UnDef	UnDef	6.0	UnDef	11.6	23.2
17.22	5.0E-07	0.08	18.6	3.67	4	19.3	77.2	96.5	48.0	UnDef	UnDef	6.0	UnDef	12.6	25.2
18.21	5.0E-07	0.09	18.3	3.68	4	19.6	78.4	98.0	48.3	UnDef	UnDef	6.0	UnDef	12.8	25.6
19.19	5.0E-07	0.07	18.6	3.77	4	20.3	81.4	101.7	48.4	UnDef	UnDef	6.0	UnDef	13.3	26.6
20.18	5.0E-07	0.04	15.9	4.04	1	18.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
21.16	5.0E-08	0.03	12.2	4.38	1	14.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
22.15	5.0E-06	0.08	10.3	3.37	4	12.6	50.4	63.0	59.5	UnDef	UnDef	3.0	UnDef	6.2	12.3
23.13	5.0E-07	0.10	11.4	3.62	1	14.1	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
24.11	5.0E-07	0.06	12.1	3.83	1	15.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
25.10	5.0E-06	0.05	13.3	3.64	1	16.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
26.08	5.0E-07	0.10	8.4	3.91	1	11.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
27.07	5.0E-06	0.18	7.7	2.39	4	10.8	43.0	53.8	60.9	UnDef	UnDef	3.0	UnDef	5.3	10.5
28.05	5.0E-06	0.17	9.5	3.45	1	13.1	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
29.04	5.0E-06	0.21	7.8	2.40	4	11.2	44.9	56.1	60.8	UnDef	UnDef	3.0	UnDef	5.5	11.0
30.02	5.0E-04	0.03	35.2	2.12	7	46.8	86.3	133.1	29.3	38	45.5	1.0	-0.15	10.4	25.7
31.00	5.0E-07	-0.01	20.8	4.51	1	28.6	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
31.99	5.0E-08	0.02	11.0	4.75	1	16.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
32.97	5.0E-06	0.07	6.0	3.29	1	9.5	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
33.96	5.0E-07	0.08	5.9	4.14	1	9.5	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
34.94	5.0E-07	0.06	5.4	3.55	1	8.9	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
35.92	5.0E-06	0.18	5.5	2.77	4	9.2	36.9	46.1	72.6	UnDef	UnDef	1.5	UnDef	4.5	9.0
36.91	5.0E-06	0.18	4.9	2.63	4	8.5	34.0	42.5	75.0	UnDef	UnDef	1.5	UnDef	4.2	8.3
37.89	5.0E-07	0.14	8.2	3.99	1	13.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
38.88	5.0E-07	0.09	7.1	3.97	1	11.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
39.86	5.0E-06	0.10	6.5	3.32	1	11.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
40.85	5.0E-05	0.21	5.0	1.97	4	9.0	36.1	45.1	69.8	30	30.0	1.5	0.09	3.5	7.1
41.83	5.0E-05	0.27	6.0	2.26	4	10.6	42.5	53.1	67.0	30	30.0	1.5	0.07	4.2	8.3
42.81	5.0E-05	0.02	20.6	2.92	6	33.3	133.3	166.6	42.4	34	35.8	6.0	-0.13	13.0	26.1
43.80	5.0E-02	0.00	60.5	0.77	9	95.8	27.8	123.7	13.4	40	66.1	1.0	-0.12	3.1	21.8
44.78	5.0E-02	0.00	61.0	0.76	9	97.8	27.6	125.5	13.3	40	66.6	1.0	-0.12	3.1	22.2
45.77	5.0E-02	0.00	53.3	0.45	9	86.4	0.0	86.4	5.0	40	63.1	1.0	-0.06	0.0	16.9
46.75	5.0E-02	0.00	55.1	0.85	9	89.8	33.1	122.8	15.1	40	64.2	1.0	-0.12	3.6	21.1
47.74	5.0E-03	-0.01	40.2	1.27	7	66.3	55.7	122.0	22.1	38	55.5	1.0	-0.12	6.5	22.7
48.72	5.0E-06	0.00	11.6	3.11	4	20.4	81.5	101.9	55.4	UnDef	UnDef	3.0	UnDef	10.0	19.9

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60	(N1)60cs
49.70	5.0E-05	0.06	8.4	2.02	4	15.3	61.1	76.4	56.5	30	30.0	3.0	0.01	6.0	12.0
50.69	5.0E-06	0.15	5.5	2.68	4	10.7	42.7	53.3	72.2	UnDef	UnDef	1.5	UnDef	5.2	10.4
51.67	5.0E-02	0.00	72.6	0.97	9	120.8	34.2	155.0	13.3	40	72.7	1.0	-0.15	3.8	27.4
52.66	5.0E-03	0.00	74.7	1.87	7	124.8	70.5	195.3	18.5	40	73.6	1.0	-0.22	8.9	39.4
53.64	5.0E-04	0.00	58.5	2.29	7	98.7	95.1	193.9	23.4	40	66.9	1.0	-0.22	14.3	46.5
54.63	5.0E-04	-0.01	40.6	2.14	7	69.3	102.3	171.6	27.3	38	56.8	1.0	-0.17	13.4	36.1
55.61	5.0E-05	0.03	21.0	2.45	6	37.0	148.1	185.1	39.6	34	38.8	6.0	-0.11	14.5	29.0
56.59	5.0E-03	0.02	34.9	0.95	7	60.5	47.3	107.8	21.4	38	52.9	1.0	-0.08	5.6	20.4
57.58	5.0E-04	0.02	14.7	1.64	6	26.7	106.7	133.4	41.2	32	30.0	1.0	-0.04	8.7	17.4
58.56	5.0E-05	0.25	7.0	2.17	4	13.8	55.3	69.1	62.0	30	30.0	3.0	0.05	5.4	10.8
59.55	5.0E-05	0.08	17.7	3.33	6	32.1	128.2	160.3	47.4	32	34.7	6.0	-0.12	12.5	25.1
60.53	5.0E-06	0.04	12.6	4.44	1	23.6	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
61.52	5.0E-06	0.05	12.1	4.53	1	22.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
62.42	5.0E-07	0.27	6.4	4.56	1	13.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
63.32	5.0E-05	0.09	12.0	2.83	4	22.9	91.5	114.4	53.0	30	30.0	3.0	-0.05	9.0	17.9
64.30	5.0E-05	0.15	6.4	1.96	4	13.3	53.0	66.3	62.6	30	30.0	3.0	0.05	5.2	10.4
65.29	5.0E-05	0.24	7.0	2.53	4	14.3	57.1	71.3	64.6	30	30.0	3.0	0.04	5.6	11.2
66.27	5.0E-05	0.28	8.6	2.57	4	17.1	68.4	85.5	59.6	30	30.0	3.0	0.02	6.7	13.4
67.26	5.0E-05	0.31	8.6	2.44	4	17.3	69.2	86.5	58.5	30	30.0	3.0	0.03	6.8	13.5
68.24	5.0E-05	0.33	10.6	2.54	4	20.9	83.6	104.5	54.2	30	30.0	3.0	0.01	8.2	16.4
69.22	5.0E-06	0.25	9.8	3.47	1	19.6	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
70.21	5.0E-06	0.22	6.8	3.28	1	14.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
71.19	5.0E-05	0.28	6.1	2.55	4	13.0	52.2	65.2	68.5	30	30.0	1.5	0.06	5.1	10.2
72.18	5.0E-05	0.35	6.6	2.22	4	14.2	56.6	70.8	63.8	30	30.0	3.0	0.07	5.5	11.1
73.16	5.0E-05	0.29	6.8	2.96	4	14.5	58.1	72.6	67.9	30	30.0	3.0	0.05	5.7	11.4
74.15	5.0E-05	0.29	7.0	2.34	4	15.0	59.9	74.9	63.1	30	30.0	3.0	0.05	5.9	11.7
75.13	5.0E-05	0.22	6.6	2.77	4	14.3	57.4	71.7	67.5	30	30.0	3.0	0.04	5.6	11.2
76.11	5.0E-06	0.28	5.9	3.38	1	13.1	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
77.10	5.0E-05	0.21	10.6	2.98	4	21.7	86.7	108.4	56.8	30	30.0	3.0	-0.02	8.5	17.0
78.08	5.0E-05	0.03	28.9	3.93	6	55.4	221.4	276.8	40.8	36	50.3	6.0	-0.23	21.7	43.3
79.07	5.0E-06	0.06	11.1	4.43	1	22.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
80.05	5.0E-05	0.16	9.8	3.02	4	20.4	81.8	102.2	58.9	30	30.0	3.0	-0.02	8.0	16.0
81.04	5.0E-06	0.15	6.6	3.50	1	14.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
82.02	5.0E-05	0.09	9.4	3.13	4	19.9	79.7	99.6	60.5	30	30.0	3.0	-0.03	7.8	15.6
83.00	5.0E-05	0.21	7.1	3.23	1	15.7	UnDef	UnDef	100.0	30	30.0	3.0	0.02	UnDef	UnDef
83.99	5.0E-05	0.27	8.1	2.51	4	17.6	70.4	88.0	60.7	30	30.0	3.0	0.03	6.9	13.8

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
84.97	5.0E-05	0.12	18.2	3.52	6	36.8	147.0	183.8	47.7	32	38.6	6.0	-0.12	14.4	28.8
85.96	5.0E-06	0.02	14.5	4.89	1	29.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
86.94	5.0E-06	0.27	6.6	3.32	1	15.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
87.93	5.0E-05	0.24	8.7	2.89	4	19.1	76.5	95.6	61.0	30	30.0	3.0	0.01	7.5	15.0
88.91	5.0E-05	0.25	10.0	3.08	4	21.7	86.7	108.3	58.7	30	30.0	3.0	-0.01	8.5	17.0
89.89	5.0E-05	0.25	8.9	2.90	4	19.6	78.3	97.9	60.6	30	30.0	3.0	0.01	7.7	15.3
90.88	5.0E-05	0.32	6.5	1.86	4	15.1	60.5	75.6	61.6	30	30.0	3.0	0.08	5.9	11.8
91.86	5.0E-05	0.37	7.9	2.30	4	17.8	71.3	89.1	59.9	30	30.0	3.0	0.05	7.0	14.0
92.85	5.0E-05	0.43	7.3	2.46	4	16.8	67.4	84.2	62.8	30	30.0	3.0	0.07	6.6	13.2
93.83	5.0E-05	0.12	14.1	2.60	6	29.9	119.7	149.6	48.3	32	32.7	6.0	-0.06	11.7	23.4
94.82	5.0E-05	0.25	7.5	2.51	4	17.3	69.3	86.6	62.4	30	30.0	3.0	0.04	6.8	13.6
95.80	5.0E-05	0.35	7.8	2.32	4	17.9	71.7	89.6	60.3	30	30.0	3.0	0.05	7.0	14.0
96.78	5.0E-04	0.14	20.7	2.16	6	43.3	173.2	216.5	38.2	34	43.3	1.0	-0.08	14.1	28.3
97.77	5.0E-04	0.00	37.8	2.60	6	76.9	168.5	245.4	30.7	38	59.7	1.0	-0.19	18.9	44.1
98.75	5.0E-05	0.10	11.2	3.36	4	24.8	99.3	124.1	57.5	30	30.0	3.0	-0.06	9.8	19.5
99.74	5.0E-04	0.20	9.4	2.12	4	21.5	85.9	107.3	54.2	30	30.0	1.0	0.01	7.1	14.1
100.72	5.0E-05	0.18	8.6	2.77	4	19.9	79.5	99.4	60.7	30	30.0	3.0	0.00	7.9	15.8
101.70	5.0E-05	0.26	8.0	2.75	4	18.8	75.3	94.1	62.2	30	30.0	3.0	0.02	7.5	15.0
102.69	5.0E-05	0.27	8.4	2.82	4	19.6	78.2	97.8	61.6	30	30.0	3.0	0.02	7.8	15.6
103.67	5.0E-05	0.32	9.2	2.27	4	21.4	85.5	106.9	55.7	30	30.0	3.0	0.03	8.6	17.1
104.66	5.0E-05	0.29	10.3	2.98	4	23.6	94.6	118.2	57.4	30	30.0	3.0	-0.01	9.5	19.0
105.64	5.0E-06	0.15	9.3	3.85	1	21.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
106.63	5.0E-05	0.24	7.3	2.87	4	17.6	70.5	88.1	65.6	30	30.0	3.0	0.03	7.1	14.2
107.61	5.0E-05	0.31	9.2	2.45	4	21.5	86.0	107.4	57.1	30	30.0	3.0	0.02	8.7	17.4
108.59	1.0E-15	0.05	23.3	5.70	1	50.2	UnDef	UnDef	100.0	34	47.5	1.0	-0.33	UnDef	UnDef
109.58	5.0E-06	0.18	10.7	3.78	1	24.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
110.56	5.0E-05	0.18	9.6	3.16	4	22.7	90.9	113.6	60.0	30	30.0	3.0	-0.02	9.3	18.6
111.55	5.0E-05	0.18	7.6	3.29	1	18.7	UnDef	UnDef	100.0	30	30.0	3.0	0.01	UnDef	UnDef
112.53	5.0E-05	0.25	6.5	3.14	1	16.4	UnDef	UnDef	100.0	30	30.0	3.0	0.04	UnDef	UnDef
113.52	5.0E-05	0.29	7.0	3.01	4	17.4	69.6	87.0	67.6	30	30.0	3.0	0.04	7.2	14.4
114.50	5.0E-05	0.28	9.5	3.26	4	22.7	90.7	113.4	61.0	30	30.0	3.0	0.00	9.4	18.8
115.48	5.0E-05	0.04	28.5	3.64	6	62.3	249.1	311.3	39.9	36	53.7	6.0	-0.21	25.8	51.7

Gregg In Situ, Inc.  
 Interpretation Output - Release 1.00.19e

Page: 1a

Run No: 04-0105-1555-4205  
 Job No: 03-399ma  
 Client: DELTA  
 Project: CPT SITE INVESTIGATION  
 Site: 6750 SANTA RITA  
 Location: CPT-02  
 Engineer: D. ARNOLD  
 CPT Date: 03/19/12  
 CPT Time: 09:54  
 CPT File: 399C02.COR  
 Northing (m): 0.000  
 Easting (m): 0.000  
 Elevation (m): 0.000

-----  
 Water Table (m): 12.19 (ft): 40.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiolkowski - All Sands  
 State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	0.0	0.00	0.00	0.0	UnDef	124.1	0.34	0.34	0.00	1.73	UnDef	UnDef	UnDef	0.00
6.40	0.0	0.00	0.00	0.0	UnDef	124.1	0.40	0.40	0.00	1.59	UnDef	UnDef	UnDef	0.00
7.30	9.6	0.25	2.63	27.1	4	114.6	0.45	0.45	0.00	1.49	6.1	9.1	0.73	0.11
8.20	12.1	0.44	3.60	8.1	3	111.4	0.50	0.50	0.00	1.41	11.6	16.4	0.93	0.13
9.19	16.3	0.46	2.85	9.9	5	114.6	0.56	0.56	0.00	1.34	7.8	10.4	1.26	0.19
10.17	14.7	0.45	3.03	3.8	5	114.6	0.61	0.61	0.00	1.28	7.1	9.0	1.13	0.15
11.15	14.6	0.46	3.17	5.9	4	114.6	0.67	0.67	0.00	1.22	9.3	11.4	1.11	0.14
12.14	16.6	0.56	3.37	10.4	4	114.6	0.73	0.73	0.00	1.17	10.6	12.4	1.27	0.16
13.21	20.0	0.62	3.07	19.1	5	114.6	0.79	0.79	0.00	1.13	9.6	10.8	1.54	0.21

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4205  
 CPT File: 399C02.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
14.27	23.7	0.72	3.04	26.0	5	114.6	0.85	0.85	0.00	1.09	11.3	12.3	1.83	0.27
15.26	26.3	0.75	2.86	56.9	5	114.6	0.91	0.91	0.00	1.05	12.6	13.3	2.03	0.31
16.24	20.4	0.60	2.95	10.2	5	114.6	0.96	0.96	0.00	1.02	9.7	9.9	1.55	0.18
17.22	21.8	0.61	2.79	25.5	5	114.6	1.02	1.02	0.00	0.99	10.4	10.3	1.66	0.19
18.21	21.7	0.67	3.09	27.4	5	114.6	1.07	1.07	0.00	0.96	10.4	10.0	1.65	0.18
19.19	21.1	0.66	3.14	48.2	5	114.6	1.13	1.13	0.00	0.94	10.1	9.5	1.60	0.17
20.18	20.0	0.65	3.23	56.9	5	114.6	1.19	1.19	0.00	0.92	9.6	8.8	1.51	0.15
21.16	19.7	0.70	3.56	44.4	4	114.6	1.24	1.24	0.00	0.90	12.6	11.3	1.48	0.00
22.15	13.6	0.45	3.32	-0.5	4	114.6	1.30	1.30	0.00	0.88	8.7	7.6	0.98	0.00
23.13	17.1	0.48	2.80	37.3	5	114.6	1.36	1.36	0.00	0.86	8.2	7.0	1.26	0.11
24.11	19.1	0.64	3.36	61.6	5	114.6	1.41	1.41	0.00	0.84	9.1	7.7	1.42	0.00
25.10	15.2	0.38	2.47	37.9	5	114.6	1.47	1.47	0.00	0.83	7.3	6.0	1.10	0.10
26.08	13.5	0.37	2.76	56.7	5	114.6	1.53	1.53	0.00	0.81	6.5	5.2	0.96	0.09
27.07	12.6	0.33	2.65	62.6	5	114.6	1.58	1.58	0.00	0.80	6.0	4.8	0.88	0.09
28.05	13.2	0.30	2.27	79.7	5	114.6	1.64	1.64	0.00	0.78	6.3	5.0	0.93	0.09
29.04	13.7	0.35	2.57	67.8	5	114.6	1.69	1.69	0.00	0.77	6.5	5.0	0.96	0.09
30.02	17.8	0.30	1.71	87.6	6	114.6	1.75	1.75	0.00	0.76	6.8	5.2	1.29	0.11
31.00	19.2	0.33	1.73	81.4	6	114.6	1.81	1.81	0.00	0.74	7.4	5.5	1.39	0.11
31.99	19.7	0.34	1.71	116.8	6	114.6	1.86	1.86	0.00	0.73	7.5	5.5	1.43	0.11
32.97	17.5	0.32	1.81	78.2	6	114.6	1.92	1.92	0.00	0.72	6.7	4.8	1.24	0.10
33.96	18.7	0.37	2.00	99.7	6	114.6	1.98	1.98	0.00	0.71	7.2	5.1	1.34	0.11
34.94	13.8	0.42	3.05	62.7	4	114.6	2.03	2.03	0.00	0.70	8.8	6.2	0.94	0.00
35.92	12.4	0.25	2.00	69.7	5	114.6	2.09	2.09	0.00	0.69	5.9	4.1	0.83	0.09
36.91	12.3	0.28	2.24	70.5	5	114.6	2.15	2.15	0.00	0.68	5.9	4.0	0.81	0.09
37.89	14.6	0.32	2.21	116.0	5	114.6	2.20	2.20	0.00	0.67	7.0	4.7	0.99	0.09
38.88	19.0	0.46	2.42	144.7	5	114.6	2.26	2.26	0.00	0.67	9.1	6.1	1.34	0.10
39.86	19.9	0.46	2.32	127.8	5	114.6	2.31	2.31	0.00	0.66	9.5	6.3	1.41	0.10
40.85	22.9	0.51	2.22	92.4	6	114.6	2.37	2.34	0.03	0.65	8.8	5.7	1.64	0.12
41.83	17.6	0.46	2.62	130.4	5	114.6	2.43	2.37	0.06	0.65	8.4	5.5	1.21	0.00
42.81	16.2	0.40	2.50	90.1	5	114.6	2.48	2.40	0.09	0.65	7.8	5.0	1.10	0.00
43.80	16.2	0.32	1.98	128.6	5	114.6	2.54	2.42	0.12	0.64	7.7	5.0	1.09	0.09
44.78	20.1	0.35	1.72	196.0	6	114.6	2.60	2.45	0.15	0.64	7.7	4.9	1.40	0.10
45.77	18.4	0.29	1.56	183.6	6	114.6	2.65	2.47	0.18	0.64	7.1	4.5	1.26	0.10
46.75	16.5	0.17	1.02	188.7	6	114.6	2.71	2.50	0.21	0.63	6.3	4.0	1.10	0.09
47.74	22.2	0.31	1.41	238.9	6	114.6	2.77	2.52	0.24	0.63	8.5	5.3	1.55	0.11
48.72	86.9	2.14	2.46	33.2	7	117.8	2.82	2.55	0.27	0.63	27.7	17.4	UnDef	0.00

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
49.70	96.9	1.75	1.81	54.8	7	117.8	2.88	2.58	0.30	0.62	30.9	19.3	UnDef	0.37
50.69	220.1	2.16	0.98	-0.4	9	124.1	2.94	2.61	0.33	0.62	42.2	26.1	UnDef	0.00
51.67	61.9	1.09	1.76	71.8	7	117.8	3.00	2.64	0.36	0.62	19.8	12.2	UnDef	0.00
52.66	43.8	0.89	2.04	175.6	6	114.6	3.06	2.66	0.40	0.61	16.8	10.3	3.26	0.29
53.64	36.1	0.75	2.09	120.0	6	114.6	3.11	2.69	0.43	0.61	13.8	8.4	2.64	0.20
54.63	29.6	0.61	2.06	114.3	6	114.6	3.17	2.71	0.46	0.61	11.4	6.9	2.12	0.14
55.61	172.6	3.23	1.87	83.6	8	120.9	3.23	2.74	0.49	0.60	41.3	25.0	UnDef	0.00
56.59	191.7	6.03	3.15	19.6	7	117.8	3.29	2.77	0.52	0.60	61.2	36.8	UnDef	0.00
57.58	139.6	3.36	2.40	0.0	7	117.8	3.34	2.80	0.55	0.60	44.6	26.7	UnDef	0.00
58.56	51.3	2.00	3.89	22.8	5	114.6	3.40	2.82	0.58	0.60	24.6	14.6	3.83	0.00
59.55	169.6	4.41	2.60	2.3	7	117.8	3.46	2.85	0.61	0.59	54.1	32.1	UnDef	0.00
60.53	149.6	4.44	2.96	-17.1	6	114.6	3.52	2.88	0.64	0.59	57.3	33.8	11.69	0.00
61.52	35.0	0.93	2.66	59.4	6	114.6	3.57	2.90	0.67	0.59	13.4	7.9	2.51	0.17
62.42	33.3	0.92	2.78	81.2	6	114.6	3.62	2.92	0.70	0.58	12.8	7.5	2.37	0.16
63.32	25.4	0.61	2.42	118.9	6	114.6	3.68	2.95	0.73	0.58	9.7	5.7	1.74	0.12
64.30	26.3	0.56	2.14	117.5	6	114.6	3.73	2.97	0.76	0.58	10.1	5.8	1.81	0.12
65.29	30.6	0.87	2.86	191.4	5	114.6	3.79	3.00	0.79	0.58	14.6	8.5	2.14	0.14
66.27	31.2	0.89	2.86	185.6	5	114.6	3.85	3.02	0.82	0.58	14.9	8.6	2.19	0.14
67.26	37.1	1.17	3.16	214.1	5	114.6	3.90	3.05	0.85	0.57	17.7	10.2	2.65	0.00
68.24	32.9	1.22	3.69	161.7	5	114.6	3.96	3.08	0.88	0.57	15.8	9.0	2.32	0.00
69.22	30.8	0.92	3.00	178.4	5	114.6	4.01	3.10	0.91	0.57	14.7	8.4	2.14	0.00
70.21	32.2	0.96	2.99	186.5	5	114.6	4.07	3.13	0.94	0.57	15.4	8.7	2.25	0.00
71.19	30.5	0.88	2.90	205.5	5	114.6	4.13	3.15	0.97	0.56	14.6	8.2	2.11	0.00
72.18	37.1	1.36	3.68	164.4	5	114.6	4.18	3.18	1.00	0.56	17.7	10.0	2.63	0.00
73.16	23.5	0.59	2.52	135.3	5	114.6	4.24	3.20	1.04	0.56	11.2	6.3	1.54	0.00
74.15	24.9	0.64	2.59	156.2	5	114.6	4.30	3.23	1.07	0.56	11.9	6.6	1.65	0.00
75.13	25.9	0.61	2.37	205.8	6	114.6	4.35	3.26	1.10	0.55	9.9	5.5	1.72	0.11
76.11	44.9	1.07	2.38	336.4	6	114.6	4.41	3.28	1.13	0.55	17.2	9.5	3.24	0.25
77.10	76.7	2.87	3.74	135.8	5	114.6	4.47	3.31	1.16	0.55	36.7	20.2	5.78	0.00
78.08	64.0	2.13	3.32	231.6	6	114.6	4.52	3.33	1.19	0.55	24.5	13.4	4.75	0.00
79.07	49.5	1.75	3.54	156.1	5	114.6	4.58	3.36	1.22	0.55	23.7	12.9	3.60	0.00
80.05	280.8	4.56	1.62	165.7	8	120.9	4.64	3.39	1.25	0.54	67.2	36.5	UnDef	0.00
81.04	165.9	3.63	2.19	-9.4	7	117.8	4.69	3.41	1.28	0.54	53.0	28.7	UnDef	0.00
82.02	52.9	0.98	1.86	147.2	7	117.8	4.75	3.44	1.31	0.54	16.9	9.1	UnDef	0.33
83.00	63.1	1.31	2.07	113.0	7	117.8	4.81	3.47	1.34	0.54	20.2	10.8	UnDef	0.00
83.99	33.9	0.92	2.72	60.9	6	114.6	4.87	3.49	1.37	0.53	13.0	6.9	2.32	0.15

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4205  
 CPT File: 399C02.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
84.97	30.0	0.69	2.31	94.0	6	114.6	4.92	3.52	1.40	0.53	11.5	6.1	2.00	0.12
85.96	31.4	0.62	1.99	159.2	6	114.6	4.98	3.55	1.43	0.53	12.0	6.4	2.11	0.13
86.94	38.9	0.75	1.93	208.4	6	114.6	5.04	3.57	1.47	0.53	14.9	7.9	2.71	0.18
87.93	38.1	0.94	2.48	243.8	6	114.6	5.09	3.60	1.50	0.53	14.6	7.7	2.64	0.17
88.91	36.0	1.01	2.80	247.2	6	114.6	5.15	3.62	1.53	0.53	13.8	7.2	2.47	0.00
89.89	37.8	0.86	2.27	290.1	6	114.6	5.21	3.65	1.56	0.52	14.5	7.6	2.61	0.16
90.88	35.4	0.83	2.34	250.2	6	114.6	5.26	3.67	1.59	0.52	13.6	7.1	2.41	0.15
91.86	43.6	1.02	2.34	383.2	6	114.6	5.32	3.70	1.62	0.52	16.7	8.7	3.06	0.21
92.85	36.7	0.76	2.06	347.4	6	114.6	5.38	3.73	1.65	0.52	14.1	7.3	2.51	0.16
93.83	38.5	0.70	1.81	395.2	6	114.6	5.43	3.75	1.68	0.52	14.8	7.6	2.65	0.17
94.82	54.3	1.38	2.55	400.1	6	114.6	5.49	3.78	1.71	0.51	20.8	10.7	3.90	0.32
95.80	53.1	1.23	2.32	440.7	6	114.6	5.54	3.80	1.74	0.51	20.4	10.4	3.81	0.30
96.78	37.8	1.24	3.29	295.3	5	114.6	5.60	3.83	1.77	0.51	18.1	9.2	2.57	0.00
97.77	34.1	0.82	2.41	348.6	6	114.6	5.66	3.85	1.80	0.51	13.1	6.7	2.28	0.14
98.75	131.0	3.20	2.44	400.0	7	117.8	5.71	3.88	1.83	0.51	41.8	21.2	UnDef	0.00
99.74	396.7	6.87	1.73	-10.3	8	120.9	5.77	3.91	1.87	0.51	95.0	48.1	UnDef	0.00
100.72	225.1	4.07	1.81	-7.2	8	120.9	5.83	3.94	1.90	0.50	53.9	27.2	UnDef	0.00
101.70	80.6	2.79	3.47	86.7	6	114.6	5.89	3.96	1.93	0.50	30.9	15.5	5.98	0.00
102.69	42.5	0.49	1.15	293.9	7	117.8	5.95	3.99	1.96	0.50	13.6	6.8	UnDef	0.18
103.67	44.5	0.57	1.28	382.2	7	117.8	6.01	4.02	1.99	0.50	14.2	7.1	UnDef	0.20

Gregg In Situ, Inc.  
 Interpretation Output - Release 1.00.19e  
 Run No: 04-0105-1555-4205  
 Job No: 03-399ma  
 Client: DELTA  
 Project: CPT SITE INVESTIGATION  
 Site: 6750 SANTA RITA  
 Location: CPT-02  
 Engineer: D. ARNOLD  
 CPT Date: 03/19/12  
 CPT Time: 09:54  
 CPT File: 399C02.COR  
 Northing (m): 0.000  
 Easting (m): 0.000  
 Elevation (m): 0.000

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 Water Table (m): 12.19 (ft): 40.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiolkowski - All Sands  
 State Parameter M: 1.20  
 Used Unit Weights Assigned to Soil Zones  
 Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
6.40	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
7.30	5.0E-07	0.09	20.3	2.76	6	14.0	55.9	69.9	41.9	UnDef	UnDef	6.0	UnDef	9.1	18.2
8.20	5.0E-08	0.02	23.1	3.75	6	16.7	67.0	83.7	44.1	UnDef	UnDef	6.0	UnDef	16.4	32.8
9.19	5.0E-06	0.02	28.2	2.95	6	21.3	85.2	106.5	37.0	UnDef	UnDef	6.0	UnDef	10.4	20.9
10.17	5.0E-06	0.01	23.0	3.16	6	18.4	73.7	92.1	41.5	UnDef	UnDef	6.0	UnDef	9.0	18.0
11.15	5.0E-07	0.01	20.8	3.32	6	17.4	69.8	87.2	44.2	UnDef	UnDef	6.0	UnDef	11.4	22.8
12.14	5.0E-07	0.02	21.9	3.52	6	19.1	76.3	95.4	44.2	UnDef	UnDef	6.0	UnDef	12.4	24.9
13.21	5.0E-06	0.03	24.4	3.20	6	22.1	88.4	110.5	40.6	UnDef	UnDef	6.0	UnDef	10.8	21.6



Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60cs	(N1)60cs
14.27	5.0E-06	0.04	26.9	3.15	6	25.2	100.7	125.9	38.7	UnDef	UnDef	6.0	UnDef	12.3	24.6
15.26	5.0E-06	0.07	28.1	2.96	6	27.1	108.3	135.4	37.1	UnDef	UnDef	6.0	UnDef	13.3	26.5
16.24	5.0E-06	0.02	20.2	3.09	6	20.3	81.3	101.6	43.7	UnDef	UnDef	6.0	UnDef	9.9	19.9
17.22	5.0E-06	0.04	20.4	2.93	6	21.1	84.5	105.7	42.7	UnDef	UnDef	6.0	UnDef	10.3	20.7
18.21	5.0E-06	0.04	19.2	3.25	6	20.5	81.9	102.4	45.4	UnDef	UnDef	6.0	UnDef	10.0	20.0
19.19	5.0E-06	0.08	17.7	3.32	6	19.4	77.7	97.1	47.4	UnDef	UnDef	6.0	UnDef	9.5	19.0
20.18	5.0E-06	0.09	15.9	3.43	4	18.0	71.9	89.9	50.1	UnDef	UnDef	6.0	UnDef	8.8	17.6
21.16	5.0E-07	0.07	14.9	3.80	1	17.3	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
22.15	5.0E-07	0.00	9.4	3.68	1	11.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
23.13	5.0E-06	0.07	11.6	3.04	4	14.3	57.4	71.7	55.0	UnDef	UnDef	3.0	UnDef	7.0	14.0
24.11	5.0E-06	0.11	12.5	3.63	1	15.7	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
25.10	5.0E-06	0.09	9.4	2.74	4	12.3	49.1	61.4	58.4	UnDef	UnDef	3.0	UnDef	6.0	12.0
26.08	5.0E-06	0.15	7.8	3.11	4	10.7	42.8	53.4	65.0	UnDef	UnDef	3.0	UnDef	5.2	10.5
27.07	5.0E-06	0.18	6.9	3.03	4	9.8	39.1	48.9	67.7	UnDef	UnDef	3.0	UnDef	4.8	9.6
28.05	5.0E-06	0.21	7.1	2.59	4	10.1	40.5	50.6	64.6	UnDef	UnDef	3.0	UnDef	5.0	9.9
29.04	5.0E-06	0.18	7.1	2.93	4	10.3	41.1	51.3	66.7	UnDef	UnDef	3.0	UnDef	5.0	10.0
30.02	5.0E-05	0.17	9.2	1.89	6	13.2	52.7	65.9	53.3	30	30.0	3.0	0.02	5.2	10.3
31.00	5.0E-05	0.15	9.6	1.91	6	14.0	56.0	70.0	52.2	30	30.0	3.0	0.01	5.5	11.0
31.99	5.0E-05	0.20	9.6	1.88	6	14.1	56.5	70.6	52.2	30	30.0	3.0	0.02	5.5	11.1
32.97	5.0E-05	0.16	8.1	2.03	4	12.3	49.3	61.6	57.4	30	30.0	3.0	0.03	4.8	9.7
33.96	5.0E-05	0.19	8.5	2.24	4	13.0	52.0	65.1	57.7	30	30.0	3.0	0.02	5.1	10.2
34.94	5.0E-07	0.17	5.8	3.58	1	9.5	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
35.92	5.0E-06	0.21	4.9	2.41	4	8.4	33.6	42.0	73.4	UnDef	UnDef	1.5	UnDef	4.1	8.2
36.91	5.0E-06	0.22	4.7	2.72	4	8.2	32.9	41.1	76.8	UnDef	UnDef	1.5	UnDef	4.0	8.0
37.89	5.0E-06	0.29	5.6	2.60	4	9.6	38.5	48.2	70.9	UnDef	UnDef	1.5	UnDef	4.7	9.4
38.88	5.0E-06	0.27	7.4	2.75	4	12.4	49.5	61.8	64.3	UnDef	UnDef	3.0	UnDef	6.1	12.1
39.86	5.0E-06	0.23	7.6	2.63	4	12.8	51.2	64.0	63.0	UnDef	UnDef	3.0	UnDef	6.3	12.5
40.85	5.0E-05	0.14	8.8	2.47	4	14.6	58.5	73.2	58.4	30	30.0	3.0	0.00	5.7	11.5
41.83	5.0E-06	0.27	6.4	3.04	1	11.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
42.81	5.0E-06	0.20	5.7	2.95	1	10.2	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
43.80	5.0E-06	0.29	5.6	2.35	4	10.2	40.7	50.8	69.3	UnDef	UnDef	1.5	UnDef	5.0	10.0
44.78	5.0E-05	0.34	7.2	1.98	4	12.6	50.4	63.0	60.0	30	30.0	3.0	0.07	4.9	9.9
45.77	5.0E-05	0.35	6.4	1.82	4	11.5	45.9	57.4	61.8	30	30.0	3.0	0.08	4.5	9.0
46.75	5.0E-05	0.41	5.5	1.22	4	10.2	40.7	50.9	60.2	30	30.0	1.5	0.13	4.0	8.0
47.74	5.0E-05	0.37	7.7	1.61	6	13.7	54.6	68.3	55.3	30	30.0	3.0	0.07	5.3	10.7
48.72	5.0E-04	0.01	33.0	2.54	6	53.3	146.8	200.1	32.5	36	49.2	1.0	-0.17	14.7	32.1

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
49.70	5.0E-04	0.01	36.5	1.86	7	59.1	86.7	145.7	27.3	38	52.2	1.0	-0.15	11.4	30.7
50.69	5.0E-02	0.00	83.3	0.99	9	133.4	31.5	164.9	12.1	42	75.5	1.0	-0.17	3.5	29.7
51.67	5.0E-04	0.03	22.3	1.85	6	37.3	147.5	184.8	34.9	34	39.0	1.0	-0.09	12.1	24.3
52.66	5.0E-05	0.12	15.3	2.19	6	26.3	105.1	131.3	44.2	32	30.0	6.0	-0.05	10.3	20.6
53.64	5.0E-05	0.10	12.3	2.29	6	21.5	86.1	107.7	49.4	30	30.0	3.0	-0.04	8.4	16.9
54.63	5.0E-05	0.12	9.8	2.31	4	17.6	70.4	88.0	54.7	30	30.0	3.0	-0.01	6.9	13.8
55.61	5.0E-03	0.01	61.8	1.91	7	102.0	74.2	176.3	20.8	40	67.9	1.0	-0.21	8.9	33.9
56.59	5.0E-04	0.00	68.0	3.20	7	112.7	137.0	249.7	25.5	40	70.7	1.0	-0.30	19.2	56.0
57.58	5.0E-04	0.00	48.7	2.46	7	81.7	110.4	192.1	26.5	38	61.5	1.0	-0.21	15.0	41.6
58.56	5.0E-06	0.00	17.0	4.17	1	29.9	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
59.55	5.0E-04	0.00	58.3	2.65	7	98.3	114.1	212.4	25.1	40	66.8	1.0	-0.25	16.2	48.3
60.53	5.0E-05	-0.01	50.8	3.04	6	86.4	146.4	232.7	28.6	38	63.1	10.0	-0.25	21.9	55.7
61.52	5.0E-05	0.04	10.8	2.96	4	20.1	80.4	100.5	56.2	30	30.0	3.0	-0.05	7.9	15.7
62.42	5.0E-05	0.06	10.1	3.11	4	19.1	76.2	95.3	58.5	30	30.0	3.0	-0.04	7.5	14.9
63.32	5.0E-05	0.14	7.4	2.83	4	14.5	57.8	72.3	65.0	30	30.0	3.0	0.02	5.7	11.3
64.30	5.0E-05	0.13	7.6	2.49	4	14.9	59.8	74.7	62.1	30	30.0	3.0	0.02	5.8	11.7
65.29	5.0E-06	0.19	8.9	3.26	4	17.3	69.1	86.4	62.5	UnDef	UnDef	3.0	UnDef	8.5	16.9
66.27	5.0E-06	0.18	9.0	3.26	4	17.6	70.2	87.8	62.2	UnDef	UnDef	3.0	UnDef	8.6	17.2
67.26	5.0E-06	0.18	10.9	3.53	1	20.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
68.24	5.0E-06	0.14	9.4	4.20	1	18.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
69.22	5.0E-06	0.17	8.6	3.45	1	17.1	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
70.21	5.0E-06	0.17	9.0	3.43	1	17.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
71.19	5.0E-06	0.21	8.4	3.35	1	16.8	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
72.18	5.0E-06	0.13	10.3	4.15	1	20.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
73.16	5.0E-06	0.17	6.0	3.08	1	12.8	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
74.15	5.0E-06	0.18	6.4	3.13	1	13.6	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
75.13	5.0E-05	0.25	6.6	2.85	4	14.0	56.1	70.1	68.0	30	30.0	3.0	0.05	5.5	11.0
76.11	5.0E-05	0.23	12.3	2.64	6	24.3	97.0	121.3	51.4	30	30.0	3.0	-0.03	9.5	19.0
77.10	5.0E-06	0.04	21.8	3.97	4	41.3	165.1	206.4	46.1	UnDef	UnDef	6.0	UnDef	20.2	40.4
78.08	5.0E-05	0.10	17.8	3.58	4	34.3	137.1	171.4	48.4	32	36.6	6.0	-0.13	13.4	26.8
79.07	5.0E-06	0.08	13.4	3.90	1	26.5	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
80.05	5.0E-03	0.01	81.6	1.65	7	149.3	65.6	214.9	16.4	42	78.8	1.0	-0.22	8.6	45.2
81.04	5.0E-04	-0.01	47.2	2.25	7	87.9	110.7	198.6	25.9	38	63.6	1.0	-0.20	15.3	44.0
82.02	5.0E-04	0.07	14.0	2.04	6	27.9	111.6	139.5	45.0	32	30.7	1.0	-0.05	9.1	18.2
83.00	5.0E-04	0.04	16.8	2.24	6	33.2	132.7	165.9	42.6	32	35.6	1.0	-0.08	10.8	21.6
83.99	5.0E-05	0.02	8.3	3.18	4	17.7	71.0	88.7	63.9	30	30.0	3.0	-0.02	6.9	13.9

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Param	Del(n1)60	(N1)60cs
84.97	5.0E-05	0.06	7.1	2.76	4	15.6	62.6	78.2	65.5	30	30.0	3.0	0.01	6.1	12.2
85.96	5.0E-05	0.13	7.5	2.36	4	16.3	65.3	81.6	61.8	30	30.0	3.0	0.02	6.4	12.8
86.94	5.0E-05	0.15	9.5	2.22	4	20.1	80.6	100.7	54.8	30	30.0	3.0	0.00	7.9	15.8
87.93	5.0E-05	0.19	9.2	2.86	4	19.7	78.7	98.3	59.6	30	30.0	3.0	-0.01	7.7	15.4
88.91	5.0E-05	0.20	8.5	3.26	1	18.5	UnDef	UnDef	100.0	30	30.0	3.0	0.00	UnDef	UnDef
89.89	5.0E-05	0.23	8.9	2.64	4	19.4	77.4	96.8	58.9	30	30.0	3.0	0.01	7.6	15.2
90.88	5.0E-05	0.21	8.2	2.75	4	18.1	72.3	90.4	61.7	30	30.0	3.0	0.01	7.1	14.2
91.86	5.0E-05	0.27	10.4	2.67	4	22.2	88.8	111.0	55.5	30	30.0	3.0	0.00	8.7	17.4
92.85	5.0E-05	0.29	8.4	2.41	4	18.6	74.5	93.1	59.0	30	30.0	3.0	0.03	7.3	14.6
93.83	5.0E-05	0.32	8.8	2.11	4	19.5	77.9	97.3	55.8	30	30.0	3.0	0.04	7.6	15.2
94.82	5.0E-05	0.22	12.9	2.84	4	27.3	109.3	136.7	51.5	32	30.1	6.0	-0.04	10.7	21.4
95.80	5.0E-05	0.25	12.5	2.59	6	26.7	106.7	133.3	50.8	30	30.0	6.0	-0.03	10.4	20.9
96.78	5.0E-06	0.23	8.4	3.86	1	18.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
97.77	5.0E-05	0.32	7.4	2.89	4	17.0	68.0	85.0	65.3	30	30.0	3.0	0.04	6.7	13.3
98.75	5.0E-04	0.09	32.3	2.55	6	65.1	189.5	254.6	32.9	36	55.0	1.0	-0.16	18.5	39.7
99.74	5.0E-03	-0.01	100.0	1.76	7	196.4	72.2	268.6	15.1	42	86.6	1.0	-0.25	9.7	57.8
100.72	5.0E-03	-0.01	55.7	1.86	7	111.0	89.4	200.4	21.7	40	70.3	1.0	-0.19	10.5	37.7
101.70	5.0E-05	0.01	18.8	3.74	4	39.6	158.5	198.1	48.0	32	40.7	6.0	-0.16	15.5	31.0
102.69	5.0E-04	0.20	9.2	1.34	6	20.8	83.2	104.0	48.8	30	30.0	1.0	0.04	6.8	13.6
103.67	5.0E-04	0.26	9.6	1.48	6	21.7	86.9	108.6	49.0	30	30.0	1.0	0.04	7.1	14.2

Gregg In Situ, Inc.

Interpretation Output - Release 1.00.19e

Run No: 04-0105-1555-4259

Job No: 03-399ma

Client: DELTA

Project: CPT SITE INVESTIGATION

Site: 6750 SANTA RITA

Location: CPT-03

Engineer: D. ARNOLD

CPT Date: 03/18/12

CPT Time: 14:13

CPT File: 399C03.COR

Northing (m): 0.000

Easting (m): 0.000

Elevation (m): 0.000

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Water Table (m): 14.33 (ft): 47.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiolkowski - All Sands  
 State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
0.49	0.0	0.00	0.00	0.0	UnDef	124.1	0.03	0.03	0.00	2.00	UnDef	UnDef	UnDef	0.00
1.48	0.0	0.00	0.00	0.0	UnDef	124.1	0.09	0.09	0.00	2.00	UnDef	UnDef	UnDef	0.00
2.46	0.0	0.00	0.00	0.0	UnDef	124.1	0.15	0.15	0.00	2.00	UnDef	UnDef	UnDef	0.00
3.44	0.0	0.00	0.00	0.0	UnDef	124.1	0.21	0.21	0.00	2.00	UnDef	UnDef	UnDef	0.00
4.43	0.0	0.00	0.00	0.0	UnDef	124.1	0.27	0.27	0.00	1.91	UnDef	UnDef	UnDef	0.00
5.41	0.0	0.00	0.00	0.0	UnDef	124.1	0.34	0.34	0.00	1.73	UnDef	UnDef	UnDef	0.00
6.40	0.0	0.00	0.00	0.0	UnDef	124.1	0.40	0.40	0.00	1.59	UnDef	UnDef	UnDef	0.00
7.30	12.7	0.33	2.61	13.3	5	114.6	0.45	0.45	0.00	1.49	6.1	9.0	0.98	0.15
8.20	6.1	0.18	2.95	0.7	3	111.4	0.50	0.50	0.00	1.41	5.9	8.3	0.45	0.09
9.19	10.0	0.25	2.50	23.8	5	114.6	0.56	0.56	0.00	1.34	4.8	6.4	0.76	0.11
10.17	13.3	0.38	2.83	25.0	5	114.6	0.61	0.61	0.00	1.28	6.4	8.1	1.01	0.13
11.15	17.2	0.46	2.66	29.0	5	114.6	0.67	0.67	0.00	1.22	8.2	10.1	1.32	0.18
12.14	21.0	0.63	2.99	27.2	5	114.6	0.73	0.73	0.00	1.17	10.1	11.8	1.62	0.24
13.21	21.8	0.61	2.82	29.7	5	114.6	0.79	0.79	0.00	1.13	10.4	11.7	1.68	0.24

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
14.27	23.8	0.59	2.48	31.0	6	114.6	0.85	0.85	0.00	1.09	9.1	9.9	1.83	0.27
15.26	16.5	0.37	2.27	28.7	5	114.6	0.91	0.91	0.00	1.05	7.9	8.3	1.25	0.14
16.24	20.0	0.59	2.95	35.6	5	114.6	0.96	0.96	0.00	1.02	9.6	9.7	1.52	0.17
17.22	18.5	0.60	3.24	18.2	5	114.6	1.02	1.02	0.00	0.99	8.9	8.8	1.40	0.15
18.21	18.1	0.65	3.60	20.1	4	114.6	1.07	1.07	0.00	0.96	11.5	11.1	1.36	0.00
19.19	18.1	0.70	3.89	22.8	4	114.6	1.13	1.13	0.00	0.94	11.6	10.9	1.36	0.00
20.18	17.6	0.66	3.76	22.0	4	114.6	1.19	1.19	0.00	0.92	11.3	10.3	1.32	0.00
21.16	14.1	0.43	3.08	22.1	4	114.6	1.24	1.24	0.00	0.90	9.0	8.0	1.02	0.10
22.15	18.3	0.65	3.56	57.7	4	114.6	1.30	1.30	0.00	0.88	11.7	10.2	1.36	0.00
23.13	21.6	0.77	3.59	53.9	4	114.6	1.36	1.36	0.00	0.86	13.8	11.8	1.62	0.00
24.11	17.6	0.56	3.19	18.0	5	114.6	1.41	1.41	0.00	0.84	8.4	7.1	1.29	0.12
25.10	12.4	0.25	2.00	44.7	5	114.6	1.47	1.47	0.00	0.83	6.0	4.9	0.88	0.09
26.08	12.7	0.26	2.06	72.6	5	114.6	1.53	1.53	0.00	0.81	6.1	4.9	0.89	0.09
27.07	14.0	0.40	2.84	66.9	5	114.6	1.58	1.58	0.00	0.80	6.7	5.3	0.99	0.00
28.05	22.0	0.61	2.76	56.2	5	114.6	1.64	1.64	0.00	0.78	10.6	8.2	1.63	0.14
29.04	54.6	1.71	3.14	20.3	6	114.6	1.69	1.69	0.00	0.77	20.9	16.1	4.23	0.00
30.02	29.1	1.04	3.56	37.3	5	114.6	1.75	1.75	0.00	0.76	13.9	10.5	2.19	0.20
31.00	30.2	1.04	3.45	21.7	5	114.6	1.81	1.81	0.00	0.74	14.5	10.8	2.27	0.20
31.99	26.8	0.69	2.56	32.0	6	114.6	1.86	1.86	0.00	0.73	10.3	7.5	1.99	0.16
32.97	14.7	0.40	2.72	42.2	5	114.6	1.92	1.92	0.00	0.72	7.0	5.1	1.02	0.00
33.96	16.4	0.44	2.65	62.6	5	114.6	1.98	1.98	0.00	0.71	7.9	5.6	1.16	0.10
34.94	12.3	0.33	2.68	55.1	5	114.6	2.03	2.03	0.00	0.70	5.9	4.1	0.82	0.00
35.92	12.9	0.31	2.37	68.1	5	114.6	2.09	2.09	0.00	0.69	6.2	4.3	0.86	0.09
36.91	15.6	0.51	3.28	78.3	4	114.6	2.15	2.15	0.00	0.68	10.0	6.8	1.08	0.00
37.89	17.7	0.36	2.06	124.9	6	114.6	2.20	2.20	0.00	0.67	6.8	4.6	1.24	0.10
38.88	15.8	0.36	2.30	127.2	5	114.6	2.26	2.26	0.00	0.67	7.6	5.0	1.08	0.09
39.86	14.0	0.30	2.11	115.8	5	114.6	2.31	2.31	0.00	0.66	6.7	4.4	0.93	0.09
40.85	15.3	0.42	2.76	97.1	5	114.6	2.37	2.37	0.00	0.65	7.3	4.8	1.03	0.00
41.83	13.7	0.28	2.08	132.8	5	114.6	2.43	2.43	0.00	0.64	6.5	4.2	0.90	0.09
42.81	18.9	0.38	2.01	178.7	6	114.6	2.48	2.48	0.00	0.63	7.3	4.6	1.32	0.10
43.80	15.6	0.33	2.13	146.7	5	114.6	2.54	2.54	0.00	0.63	7.5	4.7	1.04	0.09
44.78	16.2	0.28	1.74	163.4	6	114.6	2.60	2.60	0.00	0.62	6.2	3.9	1.09	0.09
45.77	60.0	1.00	1.67	153.6	7	117.8	2.65	2.65	0.00	0.61	19.1	11.7	UnDef	0.00
46.75	271.0	1.47	0.54	-5.7	9	124.1	2.71	2.71	0.00	0.61	51.9	31.5	UnDef	0.00
47.74	289.4	2.66	0.92	-11.2	9	124.1	2.77	2.75	0.02	0.60	55.4	33.4	UnDef	0.00
48.72	249.4	2.55	1.02	-11.0	9	124.1	2.84	2.78	0.05	0.60	47.8	28.6	UnDef	0.00

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
49.70	137.4	2.48	1.80	28.7	7	117.8	2.90	2.81	0.08	0.60	43.9	26.2	UnDef	0.45
50.69	240.4	2.05	0.85	-12.4	9	124.1	2.95	2.84	0.12	0.59	46.1	27.3	UnDef	0.00
51.67	211.2	2.21	1.05	-13.1	9	124.1	3.02	2.87	0.15	0.59	40.5	23.9	UnDef	0.00
52.66	213.0	3.23	1.52	-15.1	8	120.9	3.08	2.90	0.18	0.59	51.0	29.9	UnDef	0.00
53.64	53.9	1.49	2.76	42.2	6	114.6	3.13	2.93	0.21	0.58	20.6	12.1	4.06	0.42
54.63	118.5	2.20	1.85	30.5	7	117.8	3.19	2.95	0.24	0.58	37.8	22.0	UnDef	0.45
55.61	109.6	2.87	2.62	23.7	7	117.8	3.25	2.98	0.27	0.58	35.0	20.3	UnDef	0.00
56.59	224.5	4.43	1.97	-12.6	8	120.9	3.31	3.01	0.30	0.58	53.7	31.0	UnDef	0.00
57.58	130.1	3.62	2.78	-6.1	7	117.8	3.37	3.04	0.33	0.57	41.5	23.8	UnDef	0.00
58.56	117.7	3.11	2.64	43.6	7	117.8	3.42	3.06	0.36	0.57	37.6	21.5	UnDef	0.00
59.55	134.0	3.33	2.48	-3.0	7	117.8	3.48	3.09	0.39	0.57	42.8	24.3	UnDef	0.00
60.53	85.8	2.69	3.13	182.9	6	114.6	3.54	3.12	0.42	0.57	32.9	18.6	6.58	0.00
61.52	34.9	0.96	2.74	91.1	6	114.6	3.60	3.14	0.45	0.56	13.4	7.5	2.50	0.16
62.42	24.8	0.46	1.85	173.6	6	114.6	3.65	3.17	0.48	0.56	9.5	5.3	1.69	0.11
63.32	22.4	0.43	1.92	175.8	6	114.6	3.70	3.19	0.51	0.56	8.6	4.8	1.49	0.10
64.30	24.8	0.55	2.20	203.5	6	114.6	3.76	3.22	0.54	0.56	9.5	5.3	1.68	0.11
65.29	28.6	0.76	2.67	245.3	5	114.6	3.81	3.24	0.57	0.56	13.7	7.6	1.98	0.12
66.27	33.7	0.85	2.53	331.2	6	114.6	3.87	3.27	0.60	0.55	12.9	7.1	2.39	0.15
67.26	37.6	0.80	2.13	407.8	6	114.6	3.93	3.29	0.63	0.55	14.4	7.9	2.69	0.18
68.24	37.6	0.95	2.52	390.1	6	114.6	3.98	3.32	0.66	0.55	14.4	7.9	2.69	0.18
69.22	33.8	0.96	2.82	323.8	5	114.6	4.04	3.34	0.69	0.55	16.2	8.9	2.38	0.15
70.21	25.7	0.67	2.61	239.5	5	114.6	4.09	3.37	0.72	0.54	12.3	6.7	1.73	0.00
71.19	23.3	0.59	2.55	229.1	5	114.6	4.15	3.40	0.76	0.54	11.1	6.0	1.53	0.00
72.18	23.9	0.47	1.99	251.6	6	114.6	4.21	3.42	0.79	0.54	9.1	4.9	1.57	0.10
73.16	21.6	0.44	2.03	288.1	6	114.6	4.26	3.45	0.82	0.54	8.3	4.5	1.39	0.10
74.15	28.0	0.56	2.00	341.4	6	114.6	4.32	3.47	0.85	0.54	10.7	5.8	1.90	0.12
75.13	26.4	0.54	2.06	331.8	6	114.6	4.38	3.50	0.88	0.53	10.1	5.4	1.76	0.11
76.11	25.9	0.67	2.58	315.9	6	114.6	4.43	3.52	0.91	0.53	9.9	5.3	1.72	0.00
77.10	94.6	3.06	3.24	299.8	6	114.6	4.49	3.55	0.94	0.53	36.2	19.2	7.21	0.00
78.08	123.6	4.44	3.59	190.9	6	114.6	4.55	3.57	0.97	0.53	47.3	25.0	9.52	0.00
79.07	49.1	1.33	2.71	244.2	6	114.6	4.60	3.60	1.00	0.53	18.8	9.9	3.56	0.27
80.05	55.1	1.54	2.80	248.6	6	114.6	4.66	3.63	1.03	0.53	21.1	11.1	4.04	0.34
81.04	39.1	1.25	3.18	152.2	5	114.6	4.71	3.65	1.06	0.52	18.7	9.8	2.75	0.00
82.02	27.2	0.69	2.54	218.4	6	114.6	4.77	3.68	1.09	0.52	10.4	5.4	1.80	0.00
83.00	28.9	0.59	2.05	282.2	6	114.6	4.83	3.70	1.12	0.52	11.1	5.8	1.92	0.12
83.99	29.5	0.68	2.30	286.4	6	114.6	4.88	3.73	1.15	0.52	11.3	5.9	1.97	0.12

Gregg In Situ, Inc.  
 Run No: 04-0105-1555-4259  
 CPT File: 399C03.COR

Depth (ft)	AvgQt (tsf)	AvgFs (tsf)	AvgRf (%)	AvgUd (ft)	SBT	U.Wt. pcf	TStress (tsf)	EStress (tsf)	Ueq (tsf)	Cn	N60 (blows/ft)	(N1)60	Su (tsf)	CRR
84.97	34.7	0.81	2.33	358.2	6	114.6	4.94	3.75	1.19	0.52	13.3	6.9	2.38	0.14
85.96	32.3	0.98	3.03	278.5	5	114.6	5.00	3.78	1.22	0.51	15.5	7.9	2.18	0.00
86.94	36.4	1.15	3.15	292.9	5	114.6	5.05	3.81	1.25	0.51	17.4	8.9	2.51	0.00
87.93	40.1	0.79	1.96	312.0	6	114.6	5.11	3.83	1.28	0.51	15.4	7.9	2.80	0.17
88.91	38.4	0.97	2.52	335.8	6	114.6	5.17	3.86	1.31	0.51	14.7	7.5	2.66	0.16
89.89	42.0	1.16	2.76	359.4	6	114.6	5.22	3.88	1.34	0.51	16.1	8.2	2.94	0.19
90.88	37.9	0.82	2.15	382.0	6	114.6	5.28	3.91	1.37	0.51	14.5	7.4	2.61	0.16
91.86	40.1	0.88	2.19	431.0	6	114.6	5.33	3.93	1.40	0.50	15.4	7.7	2.78	0.17
92.85	38.5	0.85	2.22	414.5	6	114.6	5.39	3.96	1.43	0.50	14.7	7.4	2.65	0.16
93.83	46.9	1.25	2.66	342.0	6	114.6	5.45	3.99	1.46	0.50	18.0	9.0	3.31	0.22
94.82	33.4	0.77	2.32	392.8	6	114.6	5.50	4.01	1.49	0.50	12.8	6.4	2.23	0.13
95.80	33.1	0.84	2.55	381.4	6	114.6	5.56	4.04	1.52	0.50	12.7	6.3	2.21	0.00
96.78	64.4	1.96	3.05	492.9	6	114.6	5.62	4.06	1.55	0.50	24.7	12.3	4.70	0.43
97.77	271.8	4.16	1.53	-3.6	8	120.9	5.67	4.09	1.59	0.50	65.1	32.5	UnDef	0.00
98.75	130.9	5.33	4.07	22.4	11	130.5	5.74	4.12	1.62	0.50	125.4	62.7	UnDef	0.00
99.74	53.6	1.55	2.90	188.5	6	114.6	5.80	4.15	1.65	0.50	20.5	10.3	3.82	0.28
100.72	42.5	0.81	1.90	240.8	6	114.6	5.85	4.18	1.68	0.50	16.3	8.1	2.93	0.18
101.70	39.4	0.85	2.17	320.2	6	114.6	5.91	4.20	1.71	0.50	15.1	7.5	2.68	0.16
102.69	37.8	0.74	1.95	371.3	6	114.6	5.97	4.23	1.74	0.50	14.5	7.2	2.54	0.15

Gregg In Situ, Inc.  
 Interpretation Output - Release 1.00.19e  
 Run No: 04-0105-1555-4259  
 Job No: 03-399ma  
 Client: DELTA  
 Project: CPT SITE INVESTIGATION  
 Site: 6750 SANTA RITA  
 Location: CPT-03  
 Engineer: D. ARNOLD  
 CPT Date: 03/18/12  
 CPT Time: 14:13  
 CPT File: 399C03.COR  
 Northing (m): 0.000  
 Easting (m): 0.000  
 Elevation (m): 0.000

-----  
 Water Table (m): 14.33 (ft): 47.0  
 Su Nkt used: 12.50  
 Averaging Increment (m): 0.30  
 Phi Method : Robertson and Campanella, 1983  
 Dr Method : Jamiołkowski - All Sands  
 State Parameter M: 1.20

Used Unit Weights Assigned to Soil Zones

Values of 1.0E9 or UnDef are printed for parameters that are not valid for the material type (SBT)

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60	(N1)60cs
0.49	1.0E-15	0.00	2.4	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
1.48	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
2.46	1.0E-15	0.00	0.1	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
3.44	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
4.43	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
5.41	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
6.40	1.0E-15	0.00	0.0	0.10	1	0.2	UnDef	UnDef	100.0	UnDef	UnDef	1.0	UnDef	UnDef	UnDef
7.30	5.0E-06	0.03	27.1	2.70	6	18.5	73.9	92.4	36.5	UnDef	UnDef	6.0	UnDef	9.0	18.1
8.20	5.0E-08	0.00	11.2	3.21	4	8.5	33.8	42.3	56.7	UnDef	UnDef	3.0	UnDef	8.3	16.6
9.19	5.0E-06	0.08	17.0	2.65	6	13.1	52.5	65.7	44.7	UnDef	UnDef	6.0	UnDef	6.4	12.9
10.17	5.0E-06	0.06	20.6	2.97	6	16.6	66.3	82.9	42.7	UnDef	UnDef	6.0	UnDef	8.1	16.2
11.15	5.0E-06	0.05	24.7	2.77	6	20.6	82.3	102.9	38.4	UnDef	UnDef	6.0	UnDef	10.1	20.1
12.14	5.0E-06	0.04	27.9	3.09	6	24.2	96.6	120.8	37.8	UnDef	UnDef	6.0	UnDef	11.8	23.6
13.21	5.0E-06	0.04	26.6	2.93	6	24.0	96.0	120.0	37.9	UnDef	UnDef	6.0	UnDef	11.7	23.5



Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del(n1)60 Param	(N1)60	(N1)60cs
14.27	5.0E-05	0.04	27.0	2.57	6	25.2	100.9	126.2	35.8	36	30.0	6.0	-0.14	9.9	19.8
15.26	5.0E-06	0.06	17.2	2.40	6	16.9	67.8	84.7	43.1	UnDef	UnDef	6.0	UnDef	8.3	16.6
16.24	5.0E-06	0.06	19.7	3.10	6	19.9	79.6	99.5	44.1	UnDef	UnDef	6.0	UnDef	9.7	19.5
17.22	5.0E-06	0.03	17.2	3.43	4	17.9	71.8	89.7	48.5	UnDef	UnDef	6.0	UnDef	8.8	17.6
18.21	5.0E-07	0.04	15.8	3.83	1	17.0	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
19.19	5.0E-07	0.04	15.0	4.14	1	16.7	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
20.18	5.0E-07	0.04	13.8	4.03	1	15.8	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
21.16	5.0E-07	0.05	10.3	3.38	4	12.3	49.3	61.6	59.6	UnDef	UnDef	3.0	UnDef	8.0	16.1
22.15	5.0E-07	0.11	13.0	3.83	1	15.7	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
23.13	5.0E-07	0.08	14.9	3.83	1	18.1	UnDef	UnDef	100.0	UnDef	UnDef	6.0	UnDef	UnDef	UnDef
24.11	5.0E-06	0.03	11.5	3.47	4	14.5	58.0	72.4	57.5	UnDef	UnDef	3.0	UnDef	7.1	14.2
25.10	5.0E-06	0.13	7.5	2.27	4	10.0	40.2	50.2	61.1	UnDef	UnDef	3.0	UnDef	4.9	9.8
26.08	5.0E-06	0.20	7.3	2.34	4	10.0	40.1	50.1	62.1	UnDef	UnDef	3.0	UnDef	4.9	9.8
27.07	5.0E-06	0.17	7.9	3.20	1	10.9	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
28.05	5.0E-06	0.09	12.5	2.98	4	16.9	67.4	84.3	53.1	UnDef	UnDef	3.0	UnDef	8.2	16.5
29.04	5.0E-05	0.01	31.2	3.24	6	41.0	164.1	205.1	36.7	36	41.7	6.0	-0.20	16.1	32.1
30.02	5.0E-06	0.04	15.6	3.79	4	21.5	86.1	107.6	52.1	UnDef	UnDef	6.0	UnDef	10.5	21.1
31.00	5.0E-06	0.02	15.7	3.67	4	22.0	88.1	110.1	51.4	UnDef	UnDef	6.0	UnDef	10.8	21.5
31.99	5.0E-05	0.04	13.4	2.75	6	19.2	76.8	96.0	50.3	32	30.0	6.0	-0.07	7.5	15.0
32.97	5.0E-06	0.10	6.7	3.13	1	10.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
33.96	5.0E-06	0.14	7.3	3.02	4	11.4	45.7	57.2	66.3	UnDef	UnDef	3.0	UnDef	5.6	11.2
34.94	5.0E-06	0.17	5.0	3.21	1	8.4	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
35.92	5.0E-06	0.20	5.2	2.83	4	8.7	34.9	43.6	74.9	UnDef	UnDef	1.5	UnDef	4.3	8.5
36.91	5.0E-07	0.18	6.3	3.81	1	10.4	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
37.89	5.0E-05	0.25	7.0	2.36	4	11.6	46.6	58.2	63.3	30	30.0	3.0	0.05	4.6	9.1
38.88	5.0E-06	0.29	6.0	2.69	4	10.3	41.2	51.5	69.7	UnDef	UnDef	1.5	UnDef	5.0	10.1
39.86	5.0E-06	0.31	5.0	2.53	4	9.0	36.0	45.0	73.6	UnDef	UnDef	1.5	UnDef	4.4	8.8
40.85	5.0E-06	0.23	5.5	3.27	1	9.7	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
41.83	5.0E-06	0.37	4.6	2.53	4	8.6	34.3	42.9	76.2	UnDef	UnDef	1.5	UnDef	4.2	8.4
42.81	5.0E-05	0.34	6.6	2.32	4	11.8	47.0	58.8	64.5	30	30.0	3.0	0.07	4.6	9.2
43.80	5.0E-06	0.35	5.1	2.54	4	9.6	38.2	47.8	73.2	UnDef	UnDef	1.5	UnDef	4.7	9.3
44.78	5.0E-05	0.37	5.3	2.07	4	9.9	39.4	49.3	69.1	30	30.0	1.5	0.10	3.9	7.7
45.77	5.0E-04	0.08	21.6	1.74	6	36.0	139.5	175.5	34.8	34	38.0	1.0	-0.08	11.6	23.4
46.75	5.0E-02	0.00	98.9	0.55	9	161.0	10.3	171.4	7.3	42	80.9	1.0	-0.13	1.2	32.8
47.74	5.0E-02	0.00	104.2	0.93	9	170.7	25.3	196.0	9.8	42	82.6	1.0	-0.18	2.9	36.3
48.72	5.0E-02	0.00	88.6	1.03	9	146.3	33.0	179.3	11.9	42	78.2	1.0	-0.18	3.7	32.4

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del Param	(n1)60	(N1)60cs
49.70	5.0E-04	0.01	47.8	1.84	7	80.2	78.3	158.5	23.5	38	60.9	1.0	-0.17	11.7	37.9
50.69	5.0E-02	0.00	83.6	0.86	9	139.6	27.6	167.2	11.2	42	76.8	1.0	-0.16	3.1	30.5
51.67	5.0E-02	0.00	72.5	1.06	9	122.0	38.1	160.1	13.9	40	73.0	1.0	-0.16	4.2	28.1
52.66	5.0E-03	0.00	72.4	1.54	7	122.4	57.6	180.0	17.0	40	73.1	1.0	-0.20	7.5	37.4
53.64	5.0E-05	0.02	17.3	2.93	6	30.8	123.3	154.1	45.8	32	33.5	6.0	-0.11	12.1	24.1
54.63	5.0E-04	0.01	39.0	1.90	7	67.5	91.5	159.0	26.6	38	56.0	1.0	-0.16	12.4	34.4
55.61	5.0E-04	0.00	35.7	2.70	6	62.1	161.7	223.8	32.1	38	53.6	1.0	-0.19	16.7	37.0
56.59	5.0E-03	0.00	73.5	2.00	7	126.7	78.7	205.4	19.4	40	74.0	1.0	-0.23	9.8	40.8
57.58	5.0E-04	0.00	41.7	2.85	6	73.0	155.6	228.6	30.5	38	58.3	1.0	-0.22	17.7	41.5
58.56	5.0E-04	0.01	37.3	2.72	6	65.8	159.4	225.2	31.5	38	55.3	1.0	-0.20	17.1	38.5
59.55	5.0E-04	0.00	42.2	2.55	7	74.6	131.4	206.0	28.9	38	58.9	1.0	-0.20	16.2	40.5
60.53	5.0E-05	0.06	26.4	3.26	6	47.6	190.3	237.9	39.6	36	46.0	6.0	-0.17	18.6	37.2
61.52	5.0E-05	0.08	10.0	3.06	4	19.2	77.0	96.2	58.7	30	30.0	3.0	-0.04	7.5	15.1
62.42	5.0E-05	0.23	6.7	2.18	4	13.6	54.5	68.1	63.4	30	30.0	3.0	0.05	5.3	10.7
63.32	5.0E-05	0.27	5.9	2.30	4	12.3	49.1	61.3	67.7	30	30.0	1.5	0.07	4.8	9.6
64.30	5.0E-05	0.28	6.5	2.60	4	13.5	54.1	67.7	66.7	30	30.0	3.0	0.05	5.3	10.6
65.29	5.0E-06	0.29	7.6	3.08	4	15.5	62.1	77.7	65.5	UnDef	UnDef	3.0	UnDef	7.6	15.2
66.27	5.0E-05	0.33	9.1	2.85	4	18.3	73.0	91.3	59.7	30	30.0	3.0	0.02	7.1	14.3
67.26	5.0E-05	0.36	10.2	2.37	4	20.3	81.1	101.3	54.0	30	30.0	3.0	0.02	7.9	15.9
68.24	5.0E-05	0.34	10.1	2.81	4	20.2	80.8	101.0	56.9	30	30.0	3.0	0.01	7.9	15.8
69.22	5.0E-06	0.32	8.9	3.21	4	18.1	72.5	90.6	62.2	UnDef	UnDef	3.0	UnDef	8.9	17.7
70.21	5.0E-06	0.31	6.4	3.10	1	13.7	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
71.19	5.0E-06	0.33	5.6	3.10	1	12.4	UnDef	UnDef	100.0	UnDef	UnDef	1.5	UnDef	UnDef	UnDef
72.18	5.0E-05	0.36	5.7	2.41	4	12.6	50.5	63.1	69.1	30	30.0	1.5	0.09	4.9	9.9
73.16	5.0E-05	0.47	5.0	2.53	4	11.4	45.5	56.9	73.7	30	30.0	1.5	0.12	4.5	8.9
74.15	5.0E-05	0.41	6.8	2.37	4	14.7	58.9	73.6	64.1	30	30.0	3.0	0.08	5.8	11.5
75.13	5.0E-05	0.43	6.3	2.47	4	13.8	55.3	69.1	67.0	30	30.0	3.0	0.09	5.4	10.8
76.11	5.0E-05	0.42	6.1	3.12	1	13.5	UnDef	UnDef	100.0	30	30.0	1.5	0.09	UnDef	UnDef
77.10	5.0E-05	0.09	25.4	3.40	6	49.1	196.5	245.6	40.9	34	46.9	6.0	-0.17	19.2	38.5
78.08	5.0E-05	0.04	33.3	3.73	6	64.0	255.8	319.8	37.7	36	54.5	6.0	-0.23	25.0	50.1
79.07	5.0E-05	0.15	12.3	2.99	4	25.3	101.2	126.5	53.3	30	30.0	3.0	-0.05	9.9	19.8
80.05	5.0E-05	0.13	13.9	3.06	4	28.3	113.3	141.6	51.0	32	31.1	6.0	-0.07	11.1	22.2
81.04	5.0E-06	0.11	9.4	3.62	1	20.0	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
82.02	5.0E-05	0.25	6.1	3.08	1	13.9	UnDef	UnDef	100.0	30	30.0	1.5	0.05	UnDef	UnDef
83.00	5.0E-05	0.32	6.5	2.47	4	14.7	58.8	73.5	66.1	30	30.0	3.0	0.06	5.8	11.5
83.99	5.0E-05	0.32	6.6	2.76	4	15.0	59.8	74.8	67.5	30	30.0	3.0	0.06	5.9	11.7

Depth (ft)	k (cm/s)	Bq	Qtn	Rfn	SBTn	Qc1N	DeltaQc1N	Qc1Ncs	Fc (%)	Phi (Deg)	Dr (%)	OCR	State Del Param	Del(n1)60	(N1)60cs
84.97	5.0E-05	0.34	7.9	2.72	4	17.5	70.2	87.7	62.4	30	30.0	3.0	0.04	6.9	13.7
85.96	5.0E-06	0.27	7.2	3.59	1	16.2	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
86.94	5.0E-06	0.25	8.2	3.66	1	18.3	UnDef	UnDef	100.0	UnDef	UnDef	3.0	UnDef	UnDef	UnDef
87.93	5.0E-05	0.24	9.1	2.25	4	20.1	80.3	100.3	55.9	30	30.0	3.0	0.02	7.9	15.7
88.91	5.0E-05	0.28	8.6	2.91	4	19.1	76.5	95.6	61.5	30	30.0	3.0	0.02	7.5	15.0
89.89	5.0E-05	0.27	9.5	3.15	4	20.9	83.5	104.4	60.4	30	30.0	3.0	0.00	8.2	16.3
90.88	5.0E-05	0.32	8.4	2.50	4	18.8	75.1	93.9	59.7	30	30.0	3.0	0.04	7.4	14.7
91.86	5.0E-05	0.35	8.8	2.52	4	19.8	79.2	99.0	58.5	30	30.0	3.0	0.03	7.7	15.5
92.85	5.0E-05	0.35	8.4	2.58	4	18.9	75.7	94.6	60.2	30	30.0	3.0	0.04	7.4	14.8
93.83	5.0E-05	0.22	10.4	3.01	4	23.0	91.9	114.9	57.4	30	30.0	3.0	-0.02	9.0	18.0
94.82	5.0E-05	0.39	6.9	2.78	4	16.3	65.2	81.5	66.3	30	30.0	3.0	0.07	6.4	12.8
95.80	5.0E-05	0.38	6.8	3.06	1	16.1	UnDef	UnDef	100.0	30	30.0	3.0	0.06	UnDef	UnDef
96.78	5.0E-05	0.24	14.5	3.34	4	31.3	125.0	156.3	51.6	32	33.9	6.0	-0.07	12.3	24.7
97.77	5.0E-03	-0.01	65.1	1.56	7	131.5	72.1	203.6	18.3	40	75.1	1.0	-0.19	9.3	41.8
98.75	1.0E-15	-0.01	30.4	4.25	6	63.1	252.5	315.6	41.2	36	54.1	1.0	-0.26	62.7	125.4
99.74	5.0E-05	0.09	11.5	3.25	4	25.7	102.9	128.6	56.3	30	30.0	3.0	-0.06	10.3	20.5
100.72	5.0E-05	0.16	8.8	2.21	4	20.4	81.4	101.8	56.6	30	30.0	3.0	0.01	8.1	16.3
101.70	5.0E-05	0.25	8.0	2.55	4	18.8	75.1	93.9	61.3	30	30.0	3.0	0.03	7.5	15.1
102.69	5.0E-05	0.31	7.5	2.32	4	18.0	71.9	89.9	61.2	30	30.0	3.0	0.05	7.2	14.5



# Gregg In Situ

Environmental and Geotechnical Site Investigation Contractors

## Gregg In Situ CPT Interpretations as of January 7, 1999 (Release 1.00.19)

Gregg In Situ's interpretation routine should be considered a calculator of current published CPT correlations and is subject to change to reflect the current state of practice. The interpreted values are not considered valid for all soil types. The interpretations are presented only as a guide for geotechnical use and should be carefully scrutinized for consideration in any geotechnical design. Reference to current literature is strongly recommended.

The CPT interpretations are based on values of tip, sleeve friction and pore pressure averaged over a user specified interval (typically 0.25m). Note that  $Q_t$  is the recorded tip value,  $Q_c$ , corrected for pore pressure effects. Since all Gregg In Situ cones have equal end area friction sleeves, pore pressure corrections to sleeve friction,  $F_s$ , are not required.

The tip correction is:  $Q_t = Q_c + (1-a) \cdot U_d$

where:  $Q_t$  is the corrected tip load

$Q_c$  is the recorded tip load

$U_d$  is the recorded dynamic pore pressure

$a$  is the Net Area Ratio for the cone (typically 0.85 for Gregg In Situ cones)

Effective vertical overburden stresses are calculated based on a hydrostatic distribution of equilibrium pore pressures below the water table or from a user defined equilibrium pore pressure profile (this can be obtained from CPT dissipation tests). The stress calculations use unit weights assigned to the Soil Behavior Type zones or from a user defined unit weight profile.

Details regarding the interpretation methods for all of the interpreted parameters is given in table 1. The appropriate references referred to in table 1 are listed in table 2.

The estimated Soil Behavior Type is based on the charts developed by Robertson and Campanella shown in figure 1.

Table 1 CPT Interpretation Methods

Interpreted Parameter	Description	Equation	Ref
Depth	mid layer depth		
Avg $Q_t$	Averaged corrected tip ( $Q_t$ )	$AvgQ_t = \frac{1}{n} \sum_{i=1}^n Q_{t_i}$	
Avg $F_s$	Averaged sleeve friction ( $F_s$ )	$AvgF_s = \frac{1}{n} \sum_{i=1}^n F_{s_i}$	
Avg $R_f$	Averaged friction ratio ( $R_f$ )	$AvgR_f = 100\% \cdot \frac{AvgF_s}{AvgQ_t}$	
Avg $U_d$	Averaged dynamic pore pressure ( $U_d$ )	$AvgU_d = \frac{1}{n} \sum_{i=1}^n U_{d_i}$	
SBT	Soil Behavior Type as defined by Robertson and Campanella		1

CPT Interpretations

U.Wt.	Unit Weight of soil determined from: 1) uniform value or 2) value assigned to each SBT zone 3) user supplied unit weight profile		
TStress	Total vertical overburden stress at mid layer depth	$TStress = \sum_{i=1}^n \gamma_i h_i$ where $\gamma_i$ is layer unit weight $h_i$ is layer thickness	
EStress	Effective vertical overburden stress at mid layer depth	$EStress = TStress - Ueq$	
Ueq	Equilibrium pore pressure determined from: 1) hydrostatic from water table depth 2) user supplied profile		
Cn	SPT $N_{60}$ overburden correction factor	$Cn = (\sigma_v')^{-0.5}$ where $\sigma_v'$ is in tsf $0.5 < Cn < 2.0$	
$N_{60}$	SPT N value at 60% energy calculated from Qt/N ratios assigned to each SBT zone		3
$(N1)_{60}$	SPT $N_{60}$ value corrected for overburden pressure	$N1_{60} = Cn \cdot N_{60}$	3
$\Delta(N1)_{60}$	Equivalent Clean Sand Correction to $(N1)_{60}$	$\Delta(N1)_{60} = \frac{K_{SPT}}{1 - K_{SPT}} \cdot (N1)_{60}$  Where: $K_{SPT}$ is defined as:  0.0 for FC < 5% 0.0167 • (FC - 5) for 5% < FC < 35% 0.5 for FC > 35%  FC - Fines Content in %	7
$(N1)_{60cs}$	Equivalent Clean Sand $(N1)_{60}$	$(N1)_{60cs} = (N1)_{60} + \Delta(N1)_{60}$	7
Su	Undrained shear strength - Nkt is use selectable	$Su = \frac{Qt - \sigma_v}{Nkt}$	2
k	Coefficient of permeability (assigned to each SBT zone)		6
Bq	Pore pressure parameter	$Bq = \frac{\Delta u}{Qt - \sigma_v}$	2
Qtn	Normalized Qt for Soil Behavior Type classification as defined by Robertson, 1990	$Qtn = \frac{Qt - \sigma_v}{\sigma_v}$	4
Rfn	Normalized Rf for Soil Behavior Type classification as defined by Robertson, 1990	$Rfn = 100\% \cdot \frac{f_s}{Qt - \sigma_v}$	4
SBTn	Normalized Soil Behavior Type (slightly modified from that published by Robertson, 1990. This version includes all the soil zones of the original non-normalized SBT chart - see figure 1)		4
Qc1	Normalized Qt for seismic analysis	$qc1 = qc \cdot (Pa/\sigma_v')^{0.5}$ where: Pa = atm. pressure	5
Qc1N	Dimensionless Normalized Qt1	$qc1N = qc1 / Pa$ where: Pa = atm. pressure	

### CPT Interpretations

$\Delta Q_{c1N1}$	Equivalent clean sand correction	$\Delta q_{c1N} = \frac{K_{CPT}}{1 - K_{CPT}} \cdot q_{c1N}$ <p>Where: <math>K_{CPT}</math> is defined as:</p> <p>0.0 for FC &lt; 5%          0.0267 • (FC - 5) for 5% &lt; FC &lt; 35%          0.5 for FC &gt; 35%</p> <p>FC - Fines Content in %</p>	5
$Q_{c1Ncs}$	Clean Sand equivalent $Q_{c1N}$	$q_{c1Ncs} = q_{c1N} + \Delta q_{c1N}$	5
$I_c$	Soil index for estimating grain characteristics	$I_c = [(3.47 - \log Q)^2 + (\log F + 1.22)^2]^{0.5}$	5
FC	Fines content (%)	$FC = 1.75(I_c^{3.25}) - 3.7$ $FC = 100$ for $I_c > 3.5$ $FC = 0$ for $I_c < 1.26$ $FC = 5\%$ if $1.64 < I_c < 2.6$ AND $R_{fn} < 0.5$	8
PHI	Friction Angle	Campanella and Robertson Durunoglu and Mitchel Janbu	1
$D_r$	Relative Density	Ticino Sand Hokksund Sand Schmertmann 1976 Jamiolkowski - All Sands	1
OCR	Over Consolidation Ratio		1
State Parameter			9
CRR	Cyclic Resistance Ratio		7

# CPT Interpretations

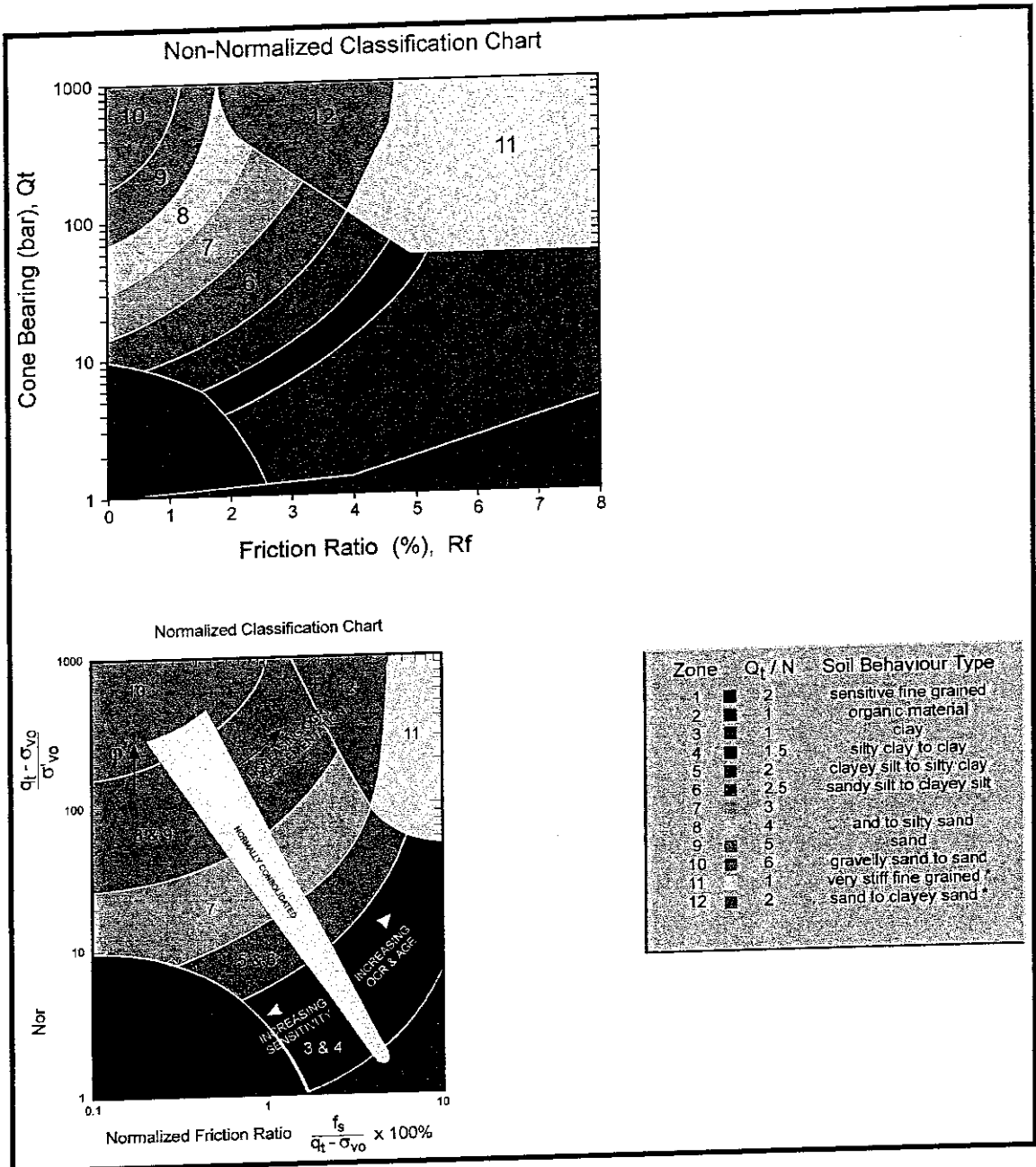


Figure 1 Non-Normalized and Normalized Soil Behavior Type Classification Charts

## CPT Interpretations

**Table 2 References**

No.	Reference
1	Robertson, P.K. and Campanella, R.G., 1986, "Guidelines for Use, Interpretation and Application of the CPT and CPTU", UBC, Soil Mechanics Series No. 105, Civil Eng. Dept., Vancouver, B.C., Canada
2	Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.
3	Robertson, P.K. and Campanella, R.G., 1989, "Guidelines for Geotechnical Design Using CPT and CPTU", UBC, Soil Mechanics Series No. 120, Civil Eng. Dept., Vancouver, B.C., Canada
4	Robertson, P.K., 1990, "Soil Classification Using the Cone Penetration Test", Canadian Geotechnical Journal, Volume 27.
5	Robertson, P.K. and Fear, C.E., 1995, "Liquefaction of Sands and its Evaluation", Keynote Lecture, First International Conference on Earthquake Geotechnical Engineering, Tokyo, Japan.
6	Gregg In Situ Internal Report
7	Robertson, P.K. and Wride, C.E., 1997, "Cyclic Liquefaction and its Evaluation Based on SPT and CPT", NCEER Workshop Paper, January 22, 1997
8	Wride, C.E. and Robertson, P.K., 1997, "Phase II Data Review Report (Massey and Kidd Sites, Fraser River Delta)", Volume 1 - Data Report (June 1997), University of Alberta.
9	Plewes, H.D., Davies, M.P. and Jefferies, M.G., 1992, "CPT Based Screening Procedure for Evaluating Liquefaction Susceptibility", 45th Canadian Geotechnical Conference, Toronto, Ontario, October 1992.

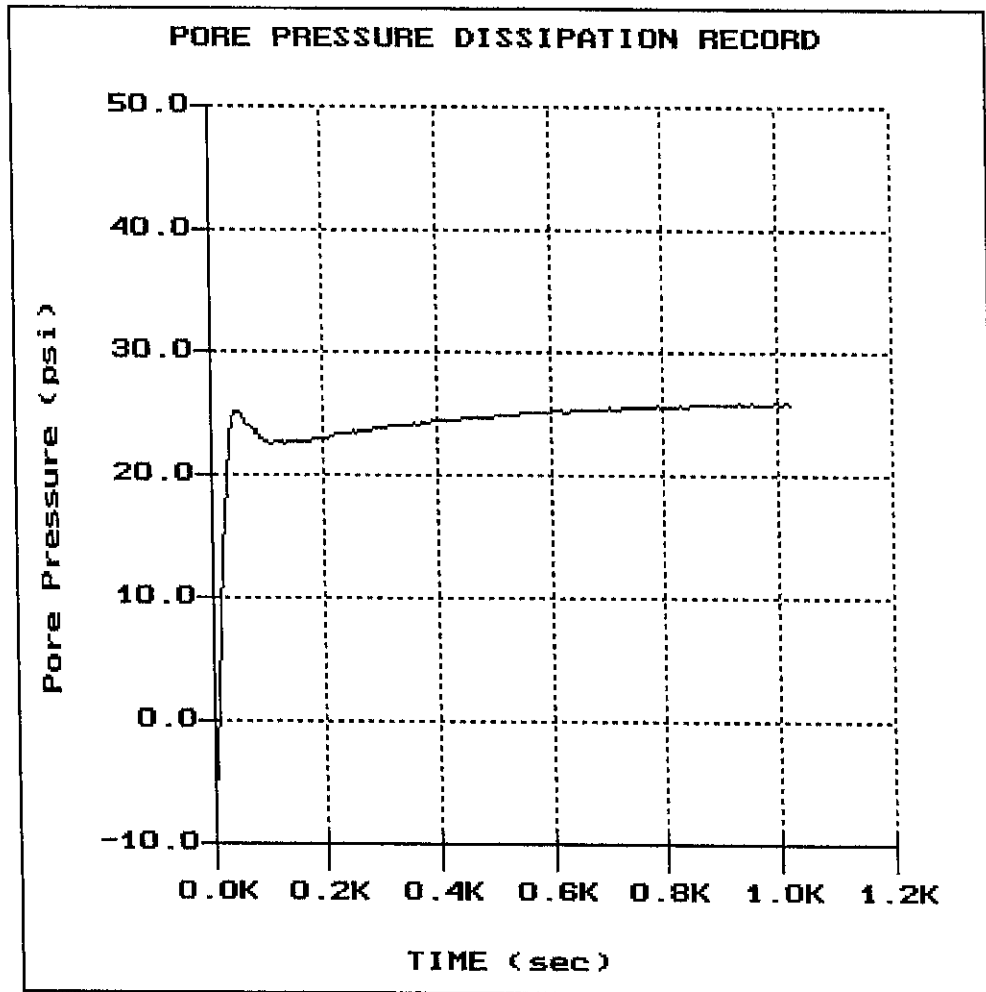


### 3.3 PORE PRESSURE DISSIPATION PLOTS

DELTA

Site: 6750 SANTA RITA  
Location: CPT-03

Geologist: D. ARNOLD  
Date: 12:18:03 14:13

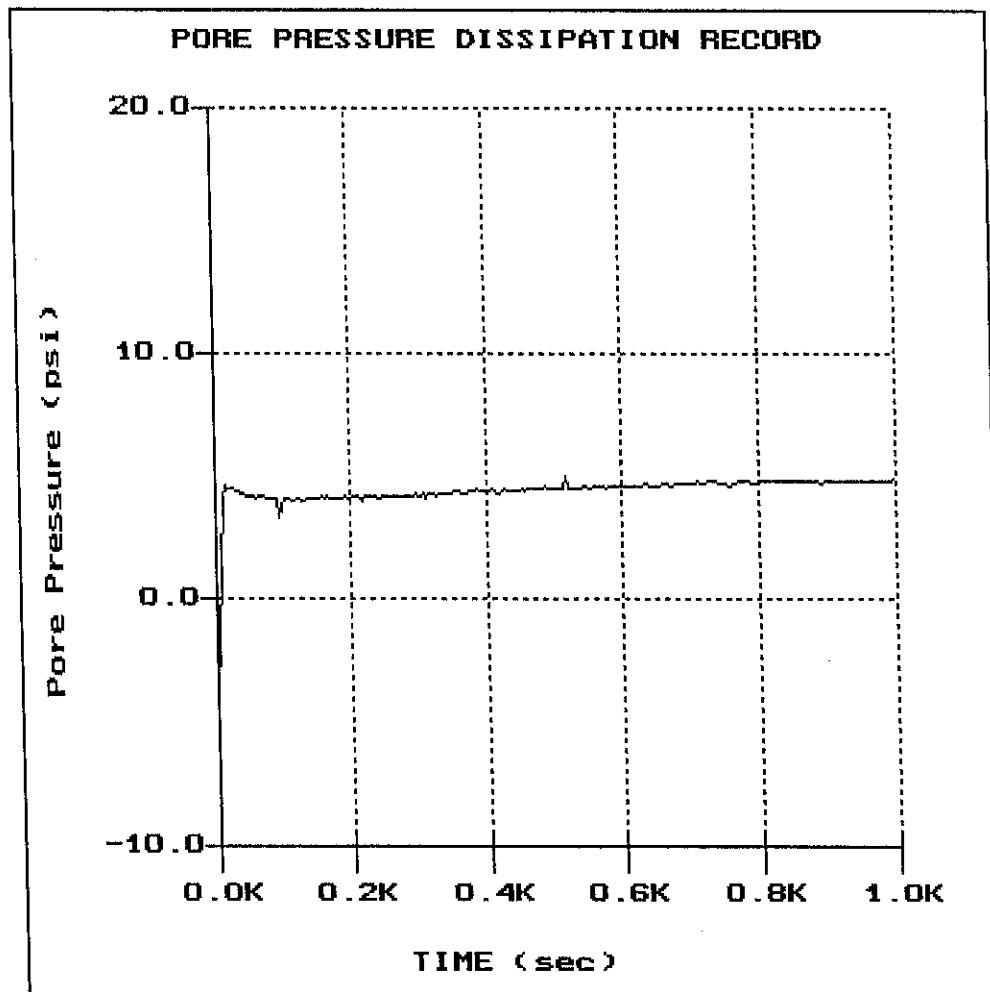


File: 399C03.PPC  
Depth (m): 30.15  
(ft): 98.92  
Duration : 1020.0s  
U-min: -6.90 0.0s  
U-max: 25.84 1015.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-03

Geologist: D. ARNOLD  
Date: 12:18:03 14:13

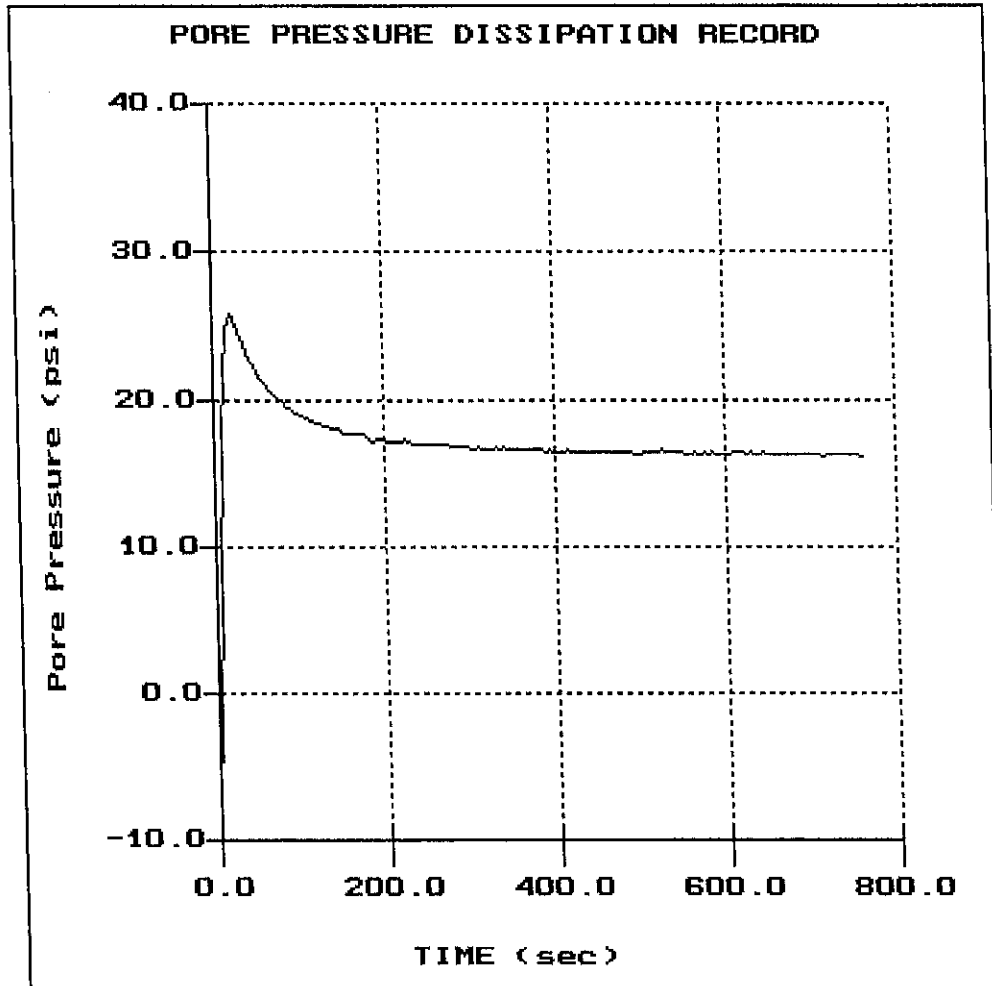


File: 399C03.PPC  
Depth (m): 14.35  
(ft): 47.08  
Duration: 1000.0s  
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U-max: 5.00 515.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-02

Geologist: D. ARNOLD  
Date: 12:19:03 09:54

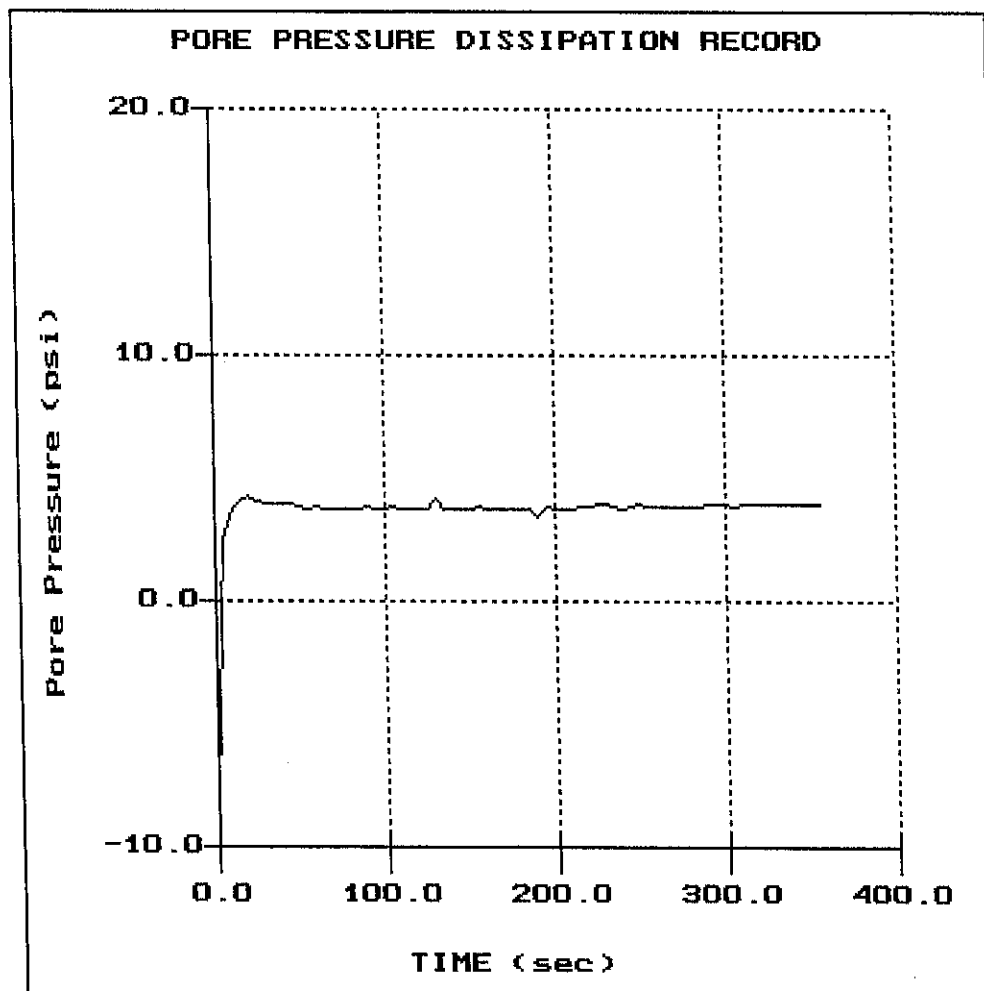


File: 399C02.PPC  
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      (ft): 77.10  
Duration : 760.0s  
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U-max: 25.82 20.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-02

Geologist: D. ARNOLD  
Date: 12:19:03 09:54



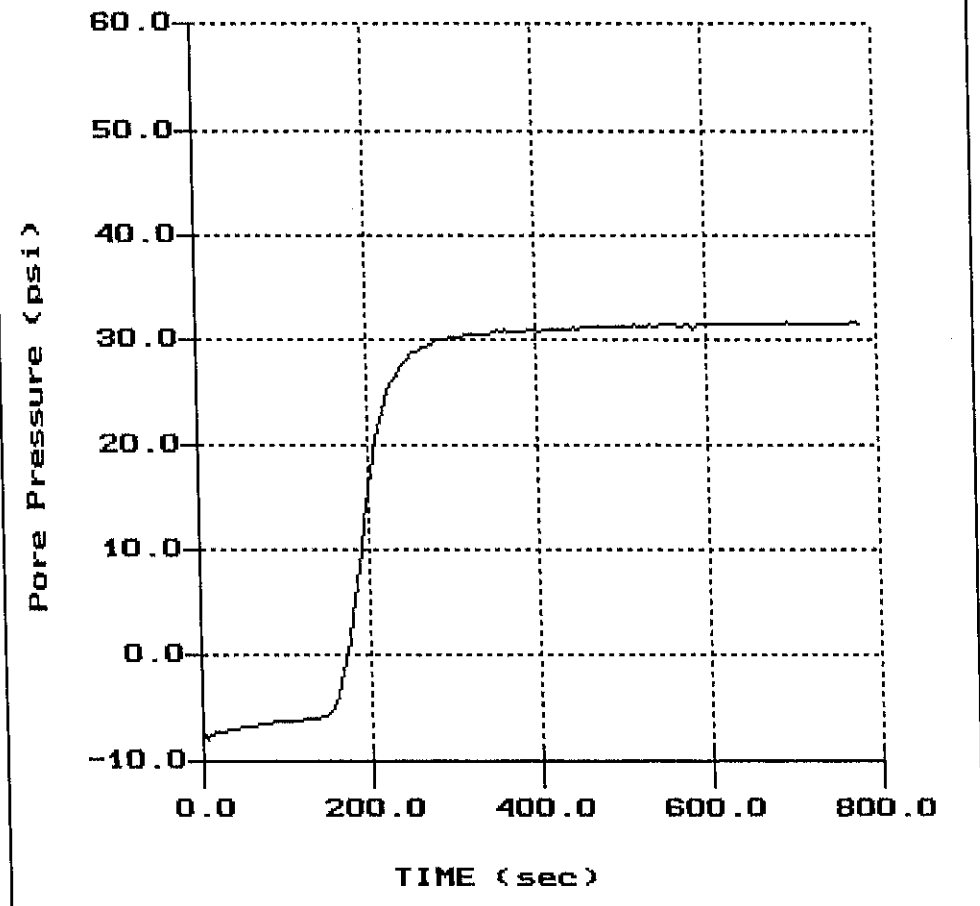
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Depth (m): 15.00  
(ft): 49.21  
Duration : 355.0s  
U-min: -8.16 0.0s  
U-max: 4.23 20.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-01

Geologist: D. ARNOLD  
Date: 12:18:03 08:33

PORE PRESSURE DISSIPATION RECORD

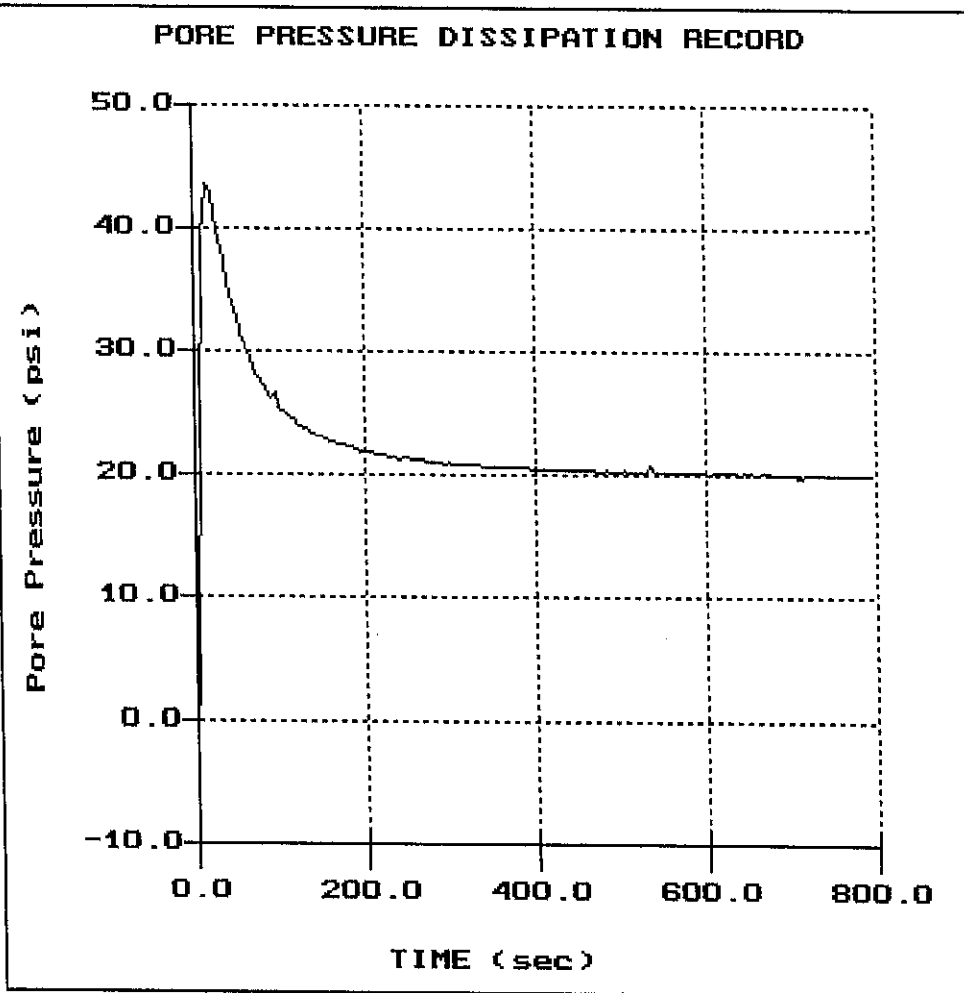


File: 399C01.PPC  
Depth (m): 35.65  
    (ft): 116.96  
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U-max: 31.47 695.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-01

Geologist: D. ARNOLD  
Date: 12:18:03 08:33

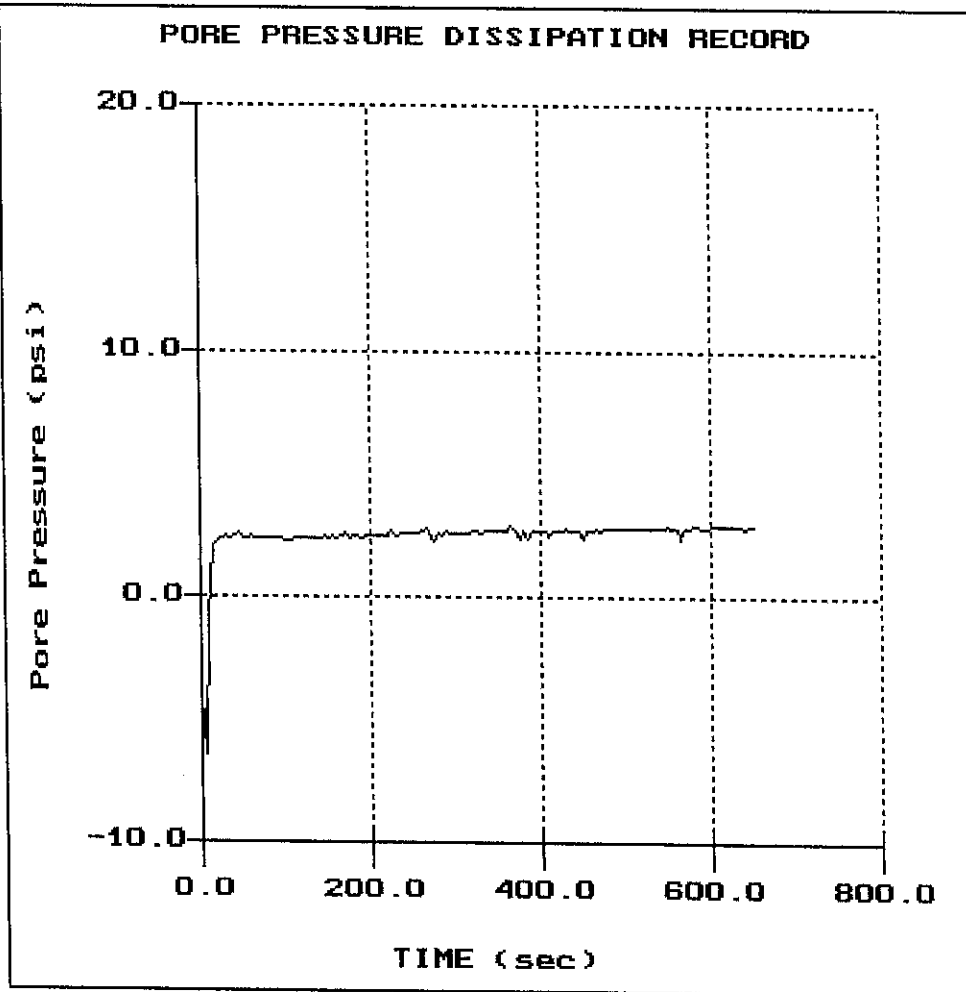


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Depth (m): 26.15  
      (ft): 85.79  
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U-max: 43.50 15.0s

DELTA

Site: 6750 SANTA RITA  
Location: CPT-01

Geologist: D. ARNOLD  
Date: 12:18:03 08:33



File: 399C01.PPC  
Depth (m): 13.50  
(ft): 44.29  
Duration: 650.0s  
U-min: -6.51 5.0s  
U-max: 2.95 645.0s



**Attachment C**

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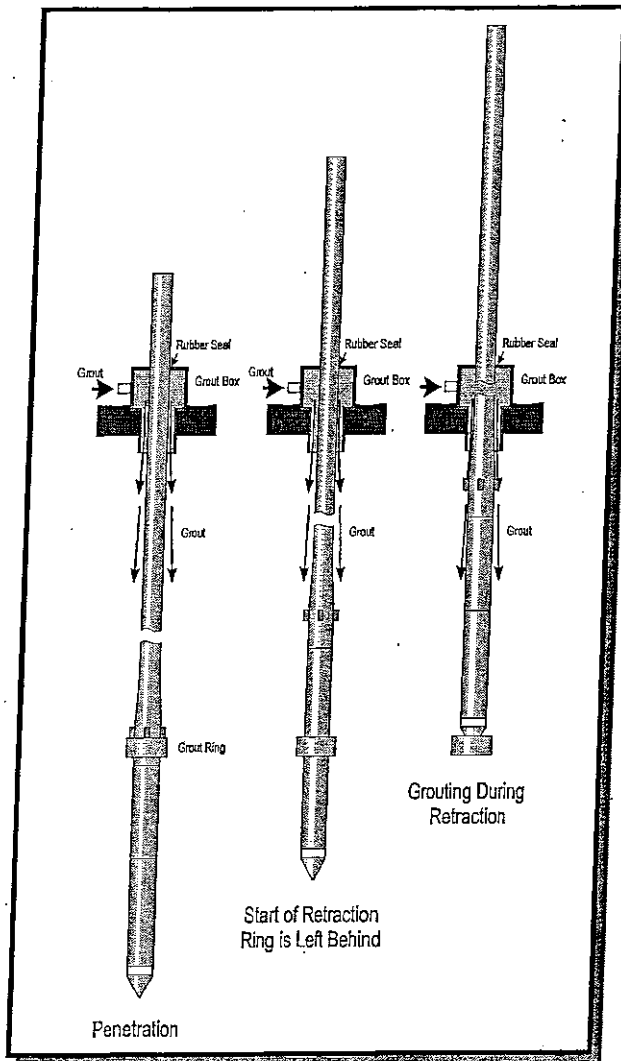
**RETRACTION GROUTING**



# GREGG IN SITU, INC.

Geotechnical and Environmental In Situ Testing Contractors

## RETRACTION GROUTING



Retraction Grouting requires the use of a casing through which the cone and rods can pass. Prior to the start of the cone test, the casing is filled with grout under pressure. The pressure and supply of grout is maintained from the start of the CPT sounding to the end of the sealing process. Upon completion of the cone test, the cone is slowly retracted causing the sacrificial friction reducer to drop off. Grout then fills the hole left by the cone as it is retracted from the ground.

Retraction grouting is typically suggested when cone testing in soils known to contain liquid form contaminants. This method is used because the friction reducer displaces soil as it passes through the soil. The annular space may provide a conduit through which contaminants may flow. By grouting on advance and retraction, the annular space is filled at all times thus preventing migration of contaminants through the profile.

Los Angeles (corporate) • San Francisco • Houston • Charleston  
Vancouver • Salt Lake City • New Jersey  
Tel: (562) 427-6899 • Fax (562) 424-2329 • Website: [www.greggdrilling.com](http://www.greggdrilling.com)

**Attachment D**

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**CERTIFIED GROUNDWATER ANALYTICAL REPORT**

**AND**

**CHAIN-OF-CUSTODY DOCUMENTATION**

**Delta Env. Consultants San Jose**

January 06, 2004

175 Bernal Road  
San Jose, CA 95119  
Attn.: Debbie Arnold  
Project#: SJ67-50S-1  
Project: 97464711  
Site: 6750 Santa Rita Rd., Pleasanton

Dear Ms. Arnold:

Attached is our report for your samples received on 12/29/2003 10:28

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 02/12/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [vvancil@stl-inc.com](mailto:vvancil@stl-inc.com)

Sincerely,



Vincent Vancil  
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: SJ67-50S-1

97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
CPT-1 @ 56	12/18/2003 11:15	Water	1
CPT-1 @ 70	12/18/2003 12:00	Water	2
CPT-2 @ 47	12/19/2003 11:30	Water	3
CPT-2 @ 80	12/19/2003 12:00	Water	4
CPT-2 @ 98	12/19/2003 13:00	Water	5
CPT-3 @ 46	12/18/2003 15:30	Water	6
CPT-3 @ 72	12/18/2003 16:30	Water	7
CPT-3 @ 97	12/19/2003 08:30	Water	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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-1 @ 56</b>	Lab ID: 2003-12-0890 - 1
Sampled: 12/18/2003 11:15	Extracted: 12/29/2003 23:47
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/29/2003 23:47	
Benzene	ND	0.50	ug/L	1.00	12/29/2003 23:47	
Toluene	ND	0.50	ug/L	1.00	12/29/2003 23:47	
Ethylbenzene	ND	0.50	ug/L	1.00	12/29/2003 23:47	
Total xylenes	ND	1.0	ug/L	1.00	12/29/2003 23:47	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/29/2003 23:47	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/29/2003 23:47	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/29/2003 23:47	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/29/2003 23:47	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/29/2003 23:47	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	105.7	76-130	%	1.00	12/29/2003 23:47	
Toluene-d8	98.2	78-115	%	1.00	12/29/2003 23:47	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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San Jose, CA 95119  
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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>CPT-1 @ 70</b>	Lab ID:	2003-12-0890 - 2
Sampled:	12/18/2003 12:00	Extracted:	12/30/2003 00:12
Matrix:	Water	QC Batch#:	2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 00:12	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 00:12	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 00:12	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 00:12	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 00:12	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 00:12	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 00:12	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 00:12	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 00:12	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 00:12	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.9	76-130	%	1.00	12/30/2003 00:12	
Toluene-d8	96.3	78-115	%	1.00	12/30/2003 00:12	

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

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>CPT-2 @ 47</b>	Lab ID:	2003-12-0890 - 3
Sampled:	12/19/2003 11:30	Extracted:	12/30/2003 00:36
Matrix:	Water	QC Batch#:	2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 00:36	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 00:36	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 00:36	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 00:36	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 00:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 00:36	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 00:36	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 00:36	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 00:36	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 00:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.8	76-130	%	1.00	12/30/2003 00:36	
Toluene-d8	98.6	78-115	%	1.00	12/30/2003 00:36	



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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-2 @ 80</b>	Lab ID: 2003-12-0890 - 4
Sampled: 12/19/2003 12:00	Extracted: 12/30/2003 01:00
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 01:00	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 01:00	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 01:00	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 01:00	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 01:00	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 01:00	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 01:00	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 01:00	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 01:00	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 01:00	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.1	76-130	%	1.00	12/30/2003 01:00	
Toluene-d8	100.6	78-115	%	1.00	12/30/2003 01:00	

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

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-2 @ 98</b>	Lab ID: 2003-12-0890 - 5
Sampled: 12/19/2003 13:00	Extracted: 12/30/2003 01:24
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 01:24	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 01:24	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 01:24	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 01:24	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 01:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 01:24	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 01:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 01:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 01:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 01:24	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.3	76-130	%	1.00	12/30/2003 01:24	
Toluene-d8	99.2	78-115	%	1.00	12/30/2003 01:24	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-3 @ 46</b>	Lab ID: 2003-12-0890 - 6
Sampled: 12/18/2003 15:30	Extracted: 12/30/2003 01:48
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 01:48	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 01:48	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 01:48	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 01:48	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 01:48	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 01:48	
Methyl tert-butyl ether (MTBE)	18	0.50	ug/L	1.00	12/30/2003 01:48	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 01:48	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 01:48	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 01:48	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.3	76-130	%	1.00	12/30/2003 01:48	
Toluene-d8	94.9	78-115	%	1.00	12/30/2003 01:48	

**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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-3 @ 72</b>	Lab ID: 2003-12-0890 - 7
Sampled: 12/18/2003 16:30	Extracted: 12/30/2003 02:12
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 02:12	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 02:12	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 02:12	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 02:12	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 02:12	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 02:12	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 02:12	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 02:12	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 02:12	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 02:12	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	110.7	76-130	%	1.00	12/30/2003 02:12	
Toluene-d8	102.1	78-115	%	1.00	12/30/2003 02:12	

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

Delta Env. Consultants San Jose

Attn.: Debbie Arnold

175 Bernal Road  
Suite 200  
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Phone: (408) 224-4724 Fax: (408) 224-4518

Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>CPT-3 @ 97</b>	Lab ID: 2003-12-0890 - 8
Sampled: 12/19/2003 08:30	Extracted: 12/30/2003 02:36
Matrix: Water	QC Batch#: 2003/12/29-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/30/2003 02:36	
Benzene	ND	0.50	ug/L	1.00	12/30/2003 02:36	
Toluene	ND	0.50	ug/L	1.00	12/30/2003 02:36	
Ethylbenzene	ND	0.50	ug/L	1.00	12/30/2003 02:36	
Total xylenes	ND	1.0	ug/L	1.00	12/30/2003 02:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	12/30/2003 02:36	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/30/2003 02:36	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/30/2003 02:36	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/30/2003 02:36	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/30/2003 02:36	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.9	76-130	%	1.00	12/30/2003 02:36	
Toluene-d8	97.3	78-115	%	1.00	12/30/2003 02:36	

**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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2003/12/29-2B.66**

MB: 2003/12/29-2B.66-055

Date Extracted: 12/29/2003 18:55

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/29/2003 18:55	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/29/2003 18:55	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/29/2003 18:55	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	12/29/2003 18:55	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	12/29/2003 18:55	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	12/29/2003 18:55	
Benzene	ND	0.5	ug/L	12/29/2003 18:55	
Toluene	ND	0.5	ug/L	12/29/2003 18:55	
Ethylbenzene	ND	0.5	ug/L	12/29/2003 18:55	
Total xylenes	ND	1.0	ug/L	12/29/2003 18:55	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	98.9	76-130	%	12/29/2003 18:55	
Toluene-d8	99.7	78-115	%	12/29/2003 18:55	

**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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2003/12/29-2B.66</b>				
LCS	2003/12/29-2B.66-007		Extracted: 12/29/2003			Analyzed: 12/29/2003 18:07				
LCSD	2003/12/29-2B.66-031		Extracted: 12/29/2003			Analyzed: 12/29/2003 18:31				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.5	20.8	25	86.0	83.2	3.3	65-165	20		
Benzene	19.6	20.3	25	78.4	81.2	3.5	69-129	20		
Toluene	21.3	21.7	25	85.2	86.8	1.9	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	504	494	500	100.8	98.8		76-130			
Toluene-d8	493	500	500	98.6	100.0		78-115			

**Diesel (C10-C24)**

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: SJ67-50S-1

97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
CPT-1 @ 56	12/18/2003 11:15	Water	1
CPT-1 @ 70	12/18/2003 12:00	Water	2
CPT-2 @ 47	12/19/2003 11:30	Water	3
CPT-2 @ 80	12/19/2003 12:00	Water	4
CPT-2 @ 98	12/19/2003 13:00	Water	5
CPT-3 @ 46	12/18/2003 15:30	Water	6
CPT-3 @ 72	12/18/2003 16:30	Water	7
CPT-3 @ 97	12/19/2003 08:30	Water	8



**Diesel (C10-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-1 @ 56</b>	Lab ID: 2003-12-0890 - 1
Sampled: 12/18/2003 11:15	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	130	50	ug/L	1.00	01/02/2004 16:36	edr
<b>Surrogate(s)</b> o-Terphenyl	128.3	50-150	%	1.00	01/02/2004 16:36	

**Diesel (C10-C24)**

Delta Env. Consultants San Jose  
Attn.: Debbie Arnold

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

Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-1 @ 70</b>	Lab ID: 2003-12-0890 - 2
Sampled: 12/18/2003 12:00	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	300	50	ug/L	1.00	01/02/2004 17:03	edr
<b>Surrogate(s)</b> o-Terphenyl	132.0	50-150	%	1.00	01/02/2004 17:03	

**Diesel (C10-C24)**

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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-2 @ 47</b>	Lab ID: 2003-12-0890 - 3
Sampled: 12/19/2003 11:30	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	90	50	ug/L	1.00	01/02/2004 17:31	edr
<b>Surrogate(s)</b> o-Terphenyl	127.4	50-150	%	1.00	01/02/2004 17:31	

**Diesel (C10-C24)**

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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-2 @ 80</b>	Lab ID: 2003-12-0890 - 4
Sampled: 12/19/2003 12:00	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10
Analysis Flag: rl ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	260	ug/L	5.26	01/02/2004 15:42	
<b>Surrogate(s)</b> o-Terphenyl	99.3	50-150	%	5.26	01/02/2004 15:42	

**Diesel (C10-C24)**

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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-2 @ 98</b>	Lab ID: 2003-12-0890 - 5
Sampled: 12/19/2003 13:00	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10
Analysis Flag: rl ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	01/02/2004 15:15	
<b>Surrogate(s)</b>						
o-Terphenyl	120.1	50-150	%	1.00	01/02/2004 15:15	

**Diesel (C10-C24)**

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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-3 @ 46</b>	Lab ID: 2003-12-0890 - 6
Sampled: 12/18/2003 15:30	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	01/02/2004 16:09	
<b>Surrogate(s)</b> o-Terphenyl	118.8	50-150	%	1.00	01/02/2004 16:09	

**Diesel (C10-C24)**

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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-3 @ 72</b>	Lab ID: 2003-12-0890 - 7
Sampled: 12/18/2003 16:30	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	01/02/2004 16:36	
<b>Surrogate(s)</b> o-Terphenyl	119.0	50-150	%	1.00	01/02/2004 16:36	

**Diesel (C10-C24)**

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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>CPT-3 @ 97</b>	Lab ID: 2003-12-0890 - 8
Sampled: 12/19/2003 08:30	Extracted: 12/31/2003 18:47
Matrix: Water	QC Batch#: 2003/12/31-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	73	50	ug/L	1.00	01/02/2004 17:03	edr
<b>Surrogate(s)</b> o-Terphenyl	121.1	50-150	%	1.00	01/02/2004 17:03	



**Diesel (C10-C24)**

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San Jose, CA 95119  
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Project: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report					
Prep(s): 3511				Test(s): 8015M	
<b>Method Blank</b>	<b>Water</b>			<b>QC Batch # 2003/12/31-05.10</b>	
MB: 2003/12/31-05.10-001				Date Extracted: 12/31/2003 18:47	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	01/02/2004 15:15	
<b>Surrogates(s)</b> o-Terphenyl	136.9	50-150	%	01/02/2004 15:15	

**Diesel (C10-C24)**

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: SJ67-50S-1  
97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Batch QC Report**

Prep(s): 3511 Test(s): 8015M

**Laboratory Control Spike** **Water** **QC Batch # 2003/12/31-05.10**

LCS 2003/12/31-05.10-002 Extracted: 12/31/2003 Analyzed: 01/02/2004 15:42

LCSD 2003/12/31-05.10-003 Extracted: 12/31/2003 Analyzed: 01/02/2004 16:09

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	588	533	753	78.1	70.5	10.2	60-150	25		
<b>Surrogates(s)</b> o-Terphenyl	1.49	1.51	1.25	119.6	120.6		50-150	0		

**Diesel (C10-C24)**

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: SJ67-50S-1

97464711

Received: 12/29/2003 10:28

Site: 6750 Santa Rita Rd., Pleasanton

**Legend and Notes**

**Analysis Flag**

rl

Reporting limits raised due to reduced sample size.

**Result Flag**

edr

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard





ENVIRONMENTAL MANAGEMENT, INC.

FILE

February 7, 2003  
KHM Project C81-6750 Santa Rita

Ms. Danielle Stefani  
Hazardous Materials Coordinator  
Livermore-Pleasanton Fire Department  
3560 Nevada Street  
Pleasanton, CA 94566

**Re: Site Assessment Report  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California**

Dear Ms. Stefani

KHM Environmental Management, Inc. (KHM) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (SHELL) has prepared this Site Assessment Report for the above referenced site (Figure 1). The Groundwater Assessment Program (GRASP) activities initiated at the above referenced site on October 8, 2002, revealed detectable concentrations of petroleum hydrocarbons in the groundwater.

## **BACKGROUND**

GRASP is a voluntary initiative by SHELL to install groundwater monitoring wells at numerous retail service stations nationwide that do not have any active release cases but have been identified to be in close proximity to one or more public water supply wells. The purpose of this program is to proactively monitor the groundwater beneath these sites and, in the event of a subsurface release, to respond quickly to protect public wells from this impact.

## **GRASP WELL INSTALLATION**

On October 8 and 9, 2002, KHM Environmental (KHM) supervised the drilling and installation of four groundwater monitoring wells (MW-1 through MW-4). Well locations are shown on Figure 2. KHM obtained a well permit from the Zone 7 Water Agency to install these wells (Appendix A). Well construction details are displayed in the boring logs presented in Appendix B. Well development sheets are included in Appendix C. Site survey data is included as Appendix D.

## ANALYTICAL FINDINGS

Soil samples were taken during the drilling of site wells. Soil samples with a photoionization detector (PID) reading greater than 10 parts per million were analyzed for the presence of petroleum hydrocarbons and fuel oxygenates. Soil analytical results are summarized in Table 1, and displayed within Figure 3. Certified analytical results and chain-of-custody documentation for soil are presented as Appendix E. After well development, on December 4, 2002, the monitoring wells were sampled and analyzed for chemical impacts. Groundwater analytical data is summarized in Table 2 and presented in Figure 4. A groundwater elevation contour map is presented as Figure 2. Well gauging data sheets are included in Appendix F. Certified analytical results and chain-of-custody documentation for groundwater are presented in Appendix G.

## UNAUTHORIZED RELEASE REPORT

The previously submitted Unauthorized Release Report dated January 6, 2003 is included as Appendix H for your reference.

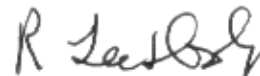
If you have any questions regarding this site, please contact Lee Dooley (KHM) at (408) 224-4724 or Lynn Walker (SHELL) at (925) 706-1559.

Sincerely,

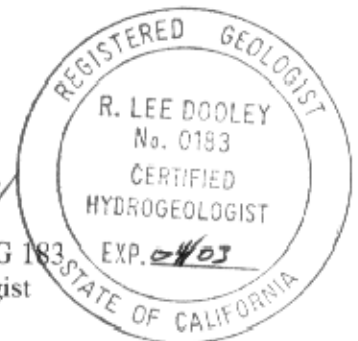
**KHM Environmental Management, Inc.**



Debbie Arnold  
Project Geologist



R. Lee Dooley, CHG 183  
Senior Hydrogeologist



CC: Lynn Walker, Shell Oil Products US (PDF by email)  
Karen Petryna, Shell Oil Products US (PDF by email)  
Isabel Mejia, Shell Oil Products US  
Chuck Headlee, RWQCB San Francisco Region  
Donna Drogos, Alameda County Environmental Health Services

ATTACHMENTS:

- Table 1 – Soil Analytical Data
- Table 2 – Groundwater Gauging and Analytical Data
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Hydrocarbon Distribution in Soil Map
- Figure 4 – Hydrocarbon Distribution in Groundwater Map
- Appendix A - Well Permit
- Appendix B – Boring Logs
- Appendix C – Well Development Field Data Sheets
- Appendix D – Site Survey Data
- Appendix E – Soil Laboratory Report and Chain-of-Custody Documentation
- Appendix F – Well Gauging Data
- Appendix G – Groundwater Laboratory Report and Chain-of-Custody Documentation
- Appendix H – Unauthorized Release Report

**TABLE 1**  
**SUMMARY OF SOIL ANALYTICAL DATA**  
 6750 Santa Rita Road  
 Pleasanton, California

Sample I.D.	Sample Collection Date	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
<b>MW-2 20'</b>	10/08/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5
<b>MW-3 20'</b>	10/09/02	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5

**Notes:**  
 All data reported in milligrams per kilogram (mg/kg)  
 TPH-g - Total Petroleum Hydrocarbons as gasoline  
 MTBE - Methyl tert-butyl ether  
 DIPE - Di-isopropyl ether  
 ETBE - Ethyl tert-butyl ether  
 TAME - Tert-amyl methyl ether  
 TBA - Tert-Butanol  
 <n = Below the detection limit  
 TPH-g quantified using EPA Method 8260B  
 BTEX Compounds, MTBE, DIPE, ETBE, TAME, and TBA analyzed using EPA Method 8260B



**TABLE 2**  
**GROUNDWATER GAUGING AND ANALYTICAL DATA**  
6750 Santa Rita Road  
Pleasanton, California

Sample I.D.	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	TOC Elevation <sup>1</sup> (feet)	Depth to GW (feet)	SPH Thickn. (feet)	GW Elev. <sup>1</sup> (feet)
<b>MW-1</b>	12/20/02	<50	<b>81</b>	<0.50	<0.50	<0.50	<0.50	<b>62</b>	<2.0	<2.0	<2.0	<50	343.48	31.93	0.00	311.55
<b>MW-2</b>	12/20/02	<200	<b>120</b>	<2.0	<2.0	<2.0	<2.0	<b>660</b>	<2.0	<2.0	<2.0	<50	342.86	30.70	0.00	312.16
<b>MW-3</b>	12/20/02	<2000	<b>72</b>	<20	<20	<20	<20	<b>8,000</b>	<20	<20	<20	<b>1,500</b>	342.23	31.10	0.00	311.13
<b>MW-4</b>	12/20/02	<50	<50	<0.50	<0.50	<0.50	<0.50	<b>93</b>	<2.0	<2.0	<2.0	<50	343.44	32.20	0.00	311.24

**Notes:**

All data reported in micrograms per liter (µg/l)

TOC = Top of well casing

SPH = Separate-phase hydrocarbons

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl tert-butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tert-amyl methyl ether

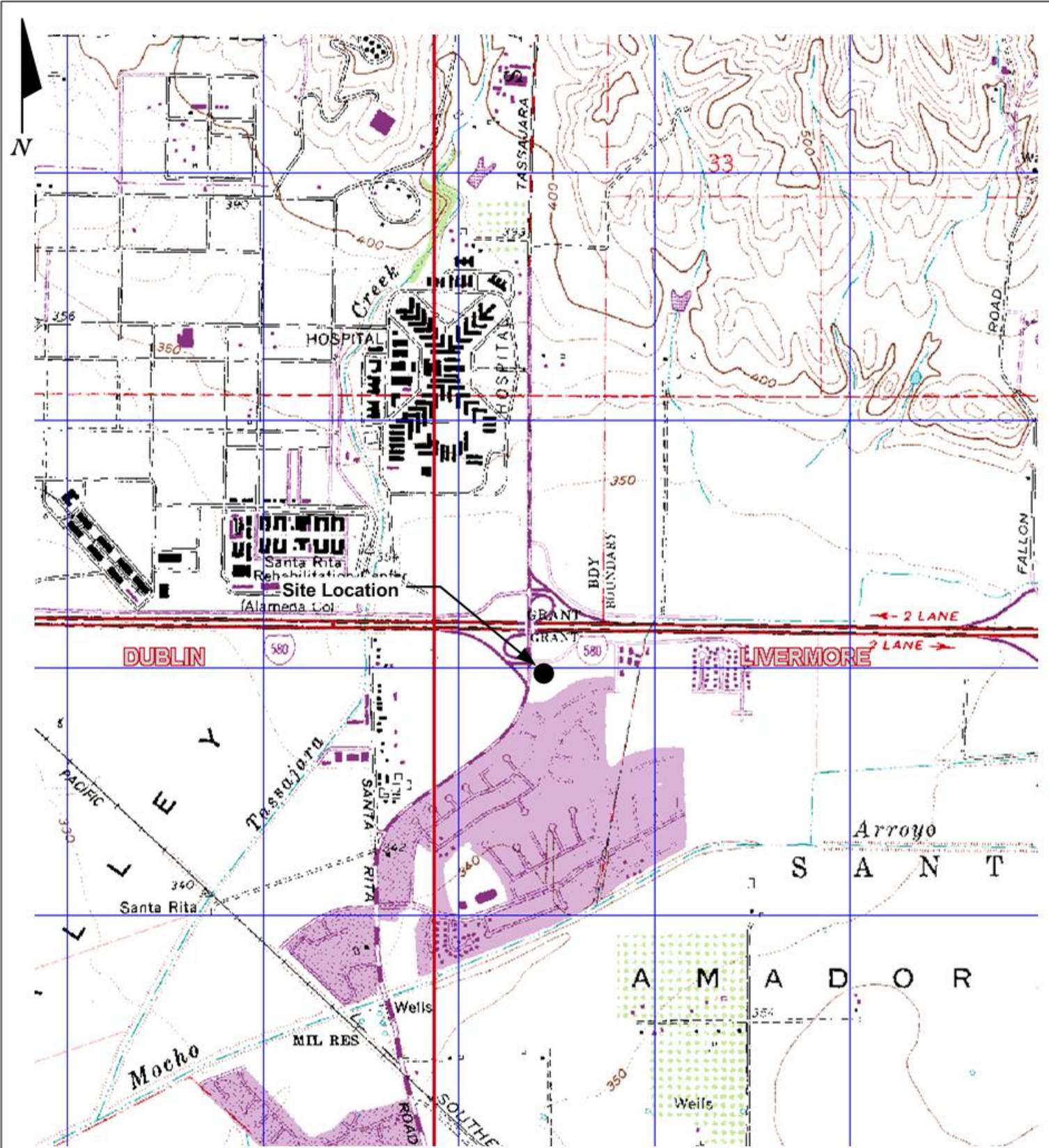
TBA = Tert-Butanol

<n = Below the detection limit

TPH-G quantified using EPA Method 8260B

BTEX Compounds, MTBE, DIPE, ETBE, TAME, and TBA analyzed using EPA Method 8260B

<sup>1</sup>TOC elevation and groundwater elevation relative to Mean Sea Level

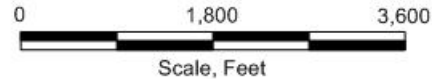


DUBLIN

LIVERMORE

Arroyo  
SANTA

AMADOR



**KHM**  
ENVIRONMENTAL  
MANAGEMENT,  
INC.

**SITE LOCATION MAP**

**Shell Service Station**  
6750 Santa Rita Road  
Pleasanton, California

DATE 11/25/02

PROJECT C81-6750 Santa Rita

FIGURE 1

Map Source: DeLorme, Yarmouth, ME 04096, USA Topo Map

Pimlico Drive



Wooden Step (typ)

Santa Rita Road

Nearest LUFT  
2,100 feet  
East BayBMW

Entrance to  
Shopping Center

MW-4  
(311.24)

MW-1  
(311.55)

MW-2  
(312.16)

MW-3  
(311.13)

Nearest Water Supply  
Well 2,500 feet  
Zone 7 Water Agency  
Stoneridge Well 01

Concrete Block

Retaining Wall

Air/Water  
Dispenser

Trash  
Compound

Vacuum

Entrance to  
Shopping Center

USTs

Canopy

Store

Dispenser  
(typ)

Storage

Carwash

Restrooms

**LEGEND**

MW-4 ● **GROUNDWATER MONITORING WELL**  
(311.24) **GROUNDWATER ELEVATION (FEET-MSL),  
12/20/02**

311.25 — **GROUNDWATER ELEVATION CONTOUR**  
0.011 ft/ft **APPROXIMATE GROUNDWATER FLOW  
DIRECTION AND GRADIENT**

■ **PLANTER**

■ **GRASS**

● **SHRUB**

0 ft. 40 ft. 80 ft.

**KHM**  
ENVIRONMENTAL  
MANAGEMENT,  
INC.

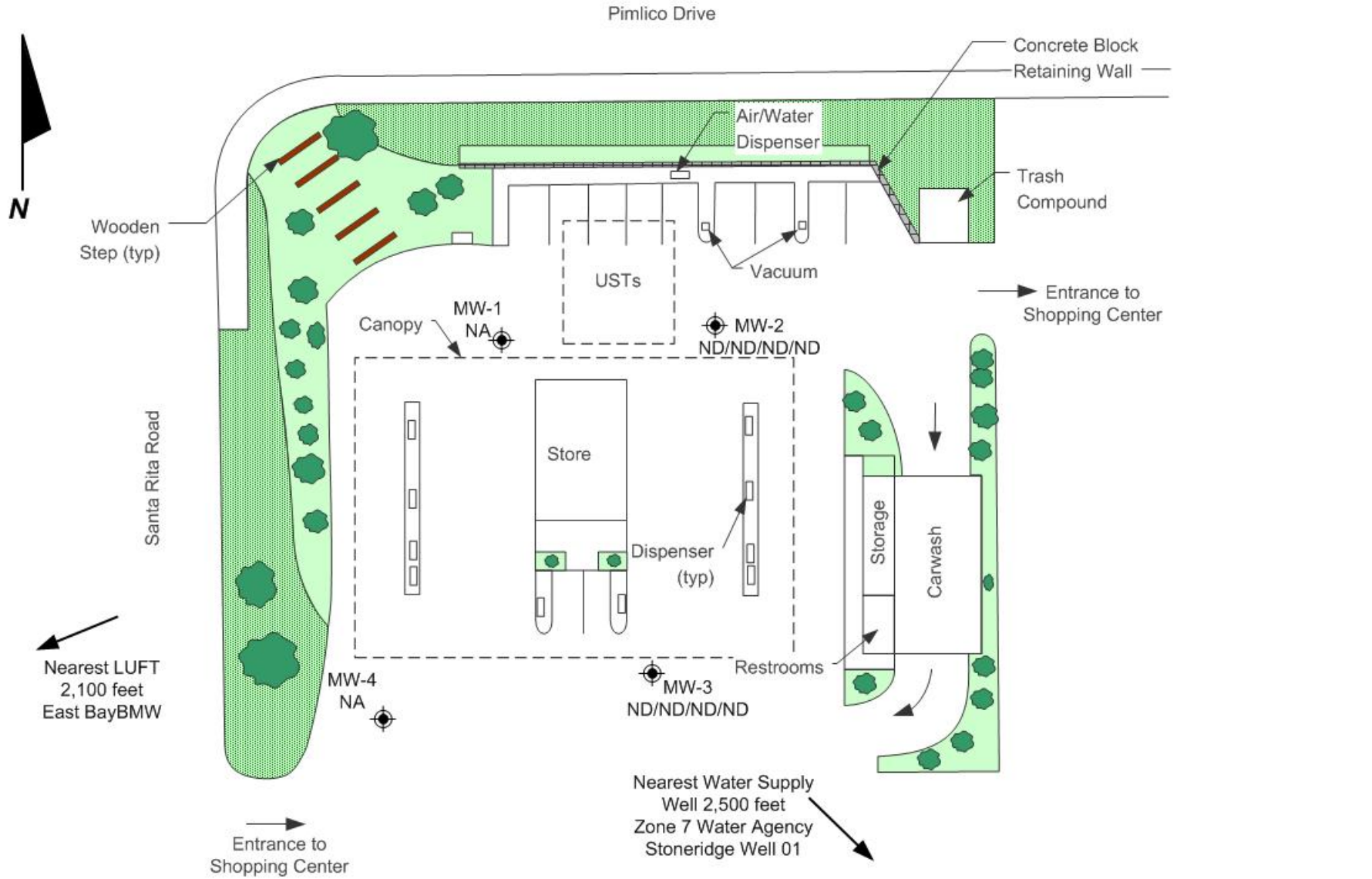
**GROUNDWATER ELEVATION  
CONTOUR MAP, DECEMBER 20, 2002**

**Shell-branded Service Station**  
6750 Santa Rita Road  
Pleasanton, California

DATE 01/03/09

PROJECT C81-6750 Santa Rita

FIGURE 2



**LEGEND**



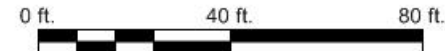
**GROUNDWATER MONITORING WELL**

ND/ND/1.80/ND

**MAXIMUM CONCENTRATIONS OF TPH-G/BENZENE/MTBE/TBA IN SOIL SAMPLED ON OCTOBER 8 AND 9, 2002 (mg/kg)**

ND **NOT DETECTED AT LABORATORY LIMITS**

NA **NO SAMPLE ANALYZED**



**KHM**  
ENVIRONMENTAL  
MANAGEMENT,  
INC.

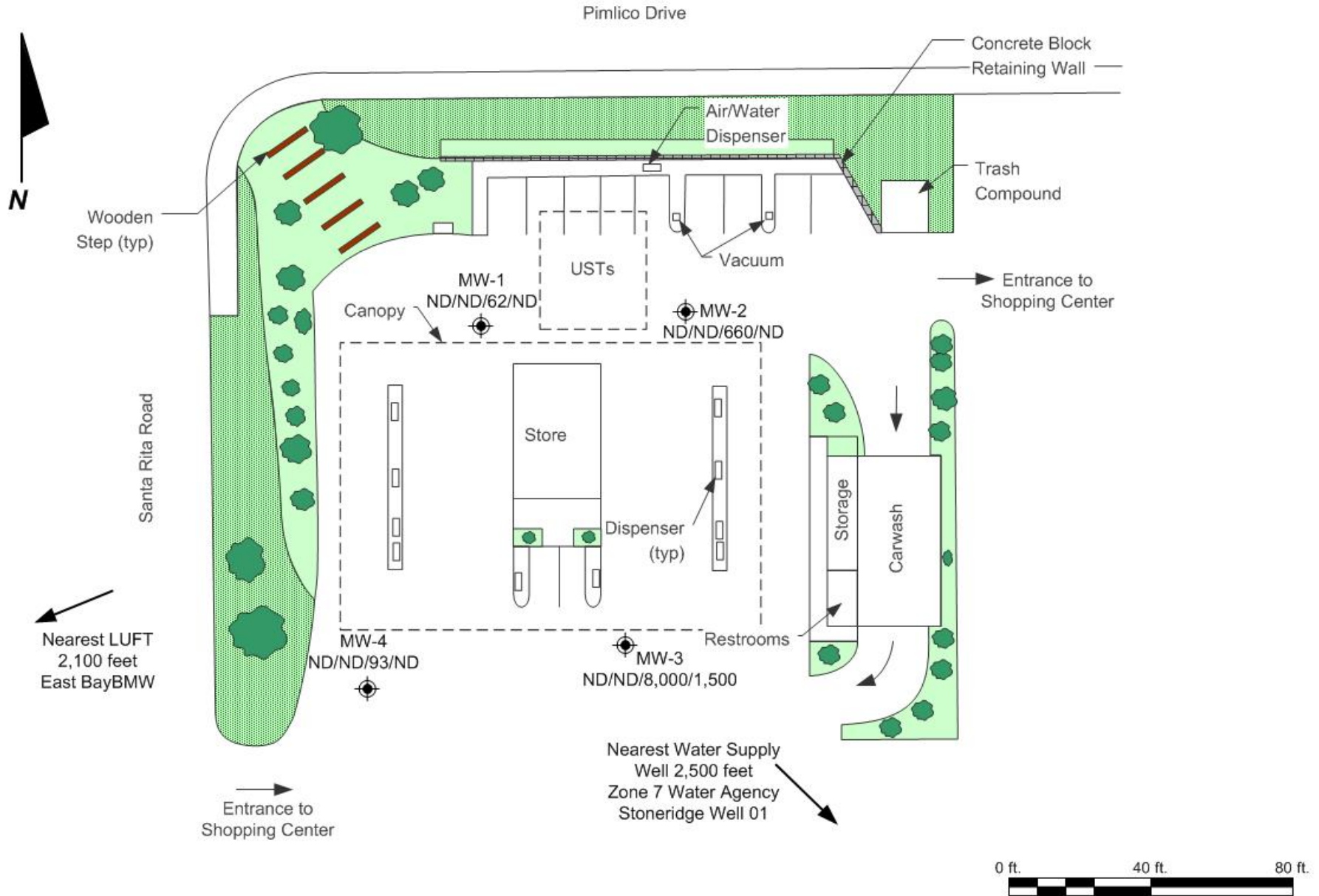
**MAXIMUM HYDROCARBON CONCENTRATION DISTRIBUTION IN SOIL MAP**

**Shell-branded Service Station**  
6750 Santa Rita Road  
Pleasanton, California

DATE 02/05/03

PROJECT C81-6750 Santa Rita

FIGURE 3



**LEGEND**



**GROUNDWATER MONITORING WELL**

ND/ND/.59/ND **CONCENTRATIONS OF TPH-G/BENZENE/MTBE/TBA IN GROUNDWATER SAMPLED ON DECEMBER 20, 2002 ( $\mu\text{g/l}$ )**

ND **NOT DETECTED AT LABORATORY LIMITS**

**KHM**  
ENVIRONMENTAL  
MANAGEMENT,  
INC.

**HYDROCARBON DISTRIBUTION IN GROUNDWATER MAP**

**Shell-branded Service Station**  
6750 Santa Rita Road  
Pleasanton, California

DATE 02/05/03

PROJECT C81-6750 Santa Rita

FIGURE 4

## **APPENDIX A**

---

### **WELL PERMIT**

FROM: ZONE 7 WATER AGENCY

925 462 3914

2002.07-24

13:57

9567 P. 02/02



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2800 X235 FAX (925) 462-3914

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 6750 Santa Rita Rd., Pleasanton

PERMIT NUMBER 22139  
WELL NUMBER 3S/1E 4L1 to 4L4  
APN \_\_\_\_\_

California Coordinates Source \_\_\_\_\_ Accuracy \_\_\_\_\_ ft.  
CCN \_\_\_\_\_ ft. CCE \_\_\_\_\_ ft.  
APN 996-1101-37

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT  
Name Shell Oil Products U.S.  
Address P.O. Box Phone \_\_\_\_\_  
City Burbank Zip \_\_\_\_\_

- 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 Driller's 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.
- 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.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
  1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
  3. Grout placed by tremie.
- D. GEOTECHNICAL - Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION. See attached.
- G. SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

APPLICANT  
Name KHM Environmental Management Inc.  
Address 6384 Santa Fe Ave., E. San Jose Phone 408-224-4518  
City San Jose Zip 95129

TYPE OF PROJECT:  
Well Construction  Geotechnical Investigation   
Well Destruction  Contamination Investigation   
Cathodic Protection  Other \_\_\_\_\_

PROPOSED WELL USE:  
Domestic  Irrigation   
Municipal  Remediation   
Industrial  Groundwater Monitoring   
Dewatering  Other \_\_\_\_\_

DRILLING METHOD:  
Mud Rotary  Air Rotary  Hollow Stem Auger   
Cable Tool  Direct Push  Other \_\_\_\_\_

DRILLING COMPANY Greco Drilling  
DRILLER'S LICENSE NO. CS 2465165

WELL SPECIFICATIONS:  
Drill Hole Diameter 8 in. Maximum Depth 40 ft.  
Casing Diameter 2 in. Number MW-1 TO MW-4  
Surface Seal Depth 25 ft.

SOIL BORINGS:  
Number of Borings \_\_\_\_\_ Maximum Depth \_\_\_\_\_ ft.  
Hole Diameter \_\_\_\_\_ in.

ESTIMATED STARTING DATE 10/7/02  
ESTIMATED COMPLETION DATE 10/18/02

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

APPLICANT'S SIGNATURE Paul Fischer Date 9/23/02

Approved Wyman Flung Date 10/2/02  
Wyman Flung

ATTACH SITE PLAN OR SKETCH




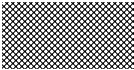



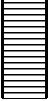
**APPENDIX B**

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**BORING LOGS**



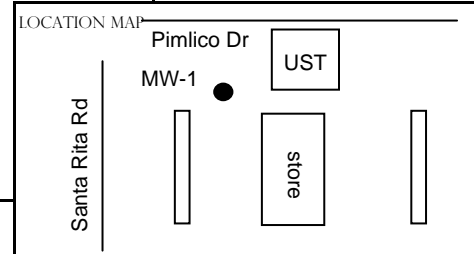
## Boring Log Symbol Key

	First Encounter of Groundwater
	Stabilized Depth to Groundwater
	Asphalt
	Cement Grout
	Bentonite
	Sand
	Blank Casing
	Screened Casing



PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd  
 DRILLER: Gregg DATE DRILLED: 10/8/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 42.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 42'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-1  
 PAGE 1 OF 2

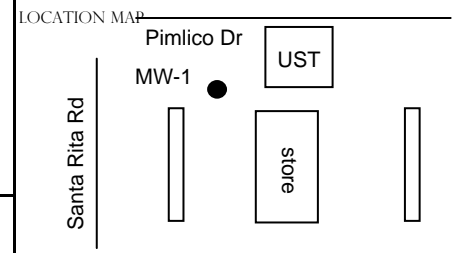


ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Cement Grout			Moist	0.7	Air Knifed	1		AF	Concrete ~ 5" thick
			5.9	2			CL	Baserock: coarse rounded gravel 2-3" <b>Sandy Lean CLAY</b> ; medium grayish brown, low to medium plasticity, 30% fine sand, <10% fine gravel	
				3			SC	<b>Clayey SAND</b> ; dark-medium grey brown mottled with light brown, fine sand, low to medium plasticity, <15% fine gravel	
				4					
				5					
				6					
				7					
				8					
			damp	2.1	3		CH	<b>Fat CLAY</b> ; medium to dark brown, soft, high plasticity	
					3				
					5				
			damp	2.6	5			(stiff)	
					6				
					8				
					14				
					15				
					16				
					17				
					18				
			damp	1.9	5				
					8				
					10				
				19					
				20					
				21					
				22					

PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd  
 DRILLER: Gregg DATE DRILLED: 10/8/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 42.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 42'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-1  
PAGE 2 OF 2



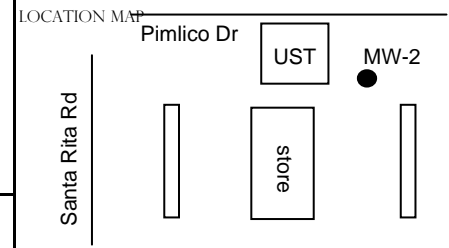
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						23		CH	continued
			damp	4.2	5	24		SP	Poorly Graded SAND; medium brown, very fine grained, loose
					7	25		CH	Fat CLAY; light brown, soft, high plasticity
					9	26			
						27			
						28			
			damp	1.6	4	29			
					5	30		SP	Poorly Graded SAND; medium brown, fine grained
					6	31			
						32			
						33			
			wet		4	34		SC/CH	Clayey SAND and Fat CLAY; alternating 6" layers, (Clayey Sand is medium brown, 60% sand, 40% clay, fine to medium grained sand, moderate plasticity)
					6	35			(Fat Clay is medium brown, stiff, high plasticity)
					7	36			
					13	37			
					7	38		CH	Fat CLAY; medium brown, stiff, high plasticity
					12	39			
					15	40			(grades coarser, 5% fine grained sand)
					5	41			(soft)
			wet		9	42			(stiff)
					10	43			
					5	44			
					6				<b>BOTTOM OF BORING @ 42.5 ft</b>
					8				
					6				
					8				
					11				



PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd  
 DRILLER: Gregg DATE DRILLED: 10/8/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 42.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 42'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-2  
 PAGE 1 OF 2

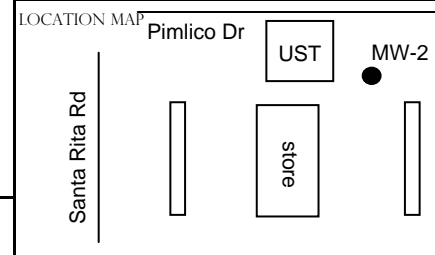


ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill	Casing									
Cement Grout			moist		Air Knifed	1		AF	Concrete 6" thick	
						2		CL	Baserock: 2" thick coarse gravel	
						3		SC	Lean CLAY with Sand; dark yellow brown, 10%-20% fine sand, silty, medium plasticity	
						4			Clayey SAND interbedded with Silt, dark-medium yellow brown, 20-35% fine sand, low to medium plasticity	
						5				
						6				
						7	0.7			CH
			8							
			9	damp	2.2	3	5	5		(stiff, slightly friable)
			10							
			11							
			12							
			13	damp	1.9	3	7	8		(rare silt and gravel up to 1/4")
			14							
			15							
			16							
			17							
			18	damp	18.0	3	5	7		(orange-brown, stiff, rare medium grained sand)
			19							
			20							
			21							
			22							

PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd  
 DRILLER: Gregg DATE DRILLED: 10/8/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 42.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 42'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-2  
PAGE 2 OF 2



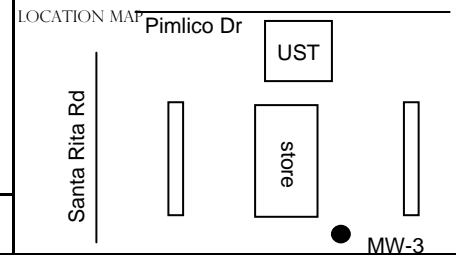
ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						23		CH	cont.
			damp	3.6	2 4 6	24 25			
			damp	4.3	5 8 9	29 30		CH	<b>Fat CLAY</b> ; medium to light brown, 70% clay, 30% silt, soft, friable, high plasticity
		▽	wet		7 12 14	34 35		CH	<b>Gravelly Fat CLAY</b> ; greenish brown, 70% clay, 30% 1/4" gravel
			wet		6 8 9	35 36 37			(grades finer, 10% 1/2" gravel, soft)
			wet		6 8 13 9 11 15 11 17 20	38 39 40 41 42		SP	<b>Clayey SAND</b> ; medium brown with trace black and reddish grains, 70% sand, 30% clay, fine grained sand
						43			<b>BOTTOM OF BORING @ 42.5 ft</b>
						44			



PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd, Pleasanton, CA  
 DRILLER: Gregg DATE DRILLED: 10/9/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 44.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 44'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-3  
 PAGE 1 OF 2

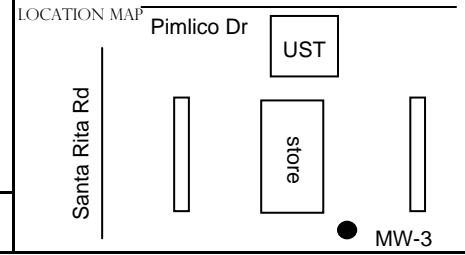


ELEVATION NORTHING EASTING

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Cement Grout			moist		↑ Air Knifed ↓	1		AF	Concrete 6" thick
						2		CL	Basereck 2": coarse rounded gravel <b>Sandy Lean CLAY</b> ; dark gray to olive gray, 10-20% fine sand, 10-15% fine gravel, medium plasticity
						3			(alternating sandy clay and clayey sand)
						4			
						5			(clay becomes stiffer below 5')
						6			
				damp		7			
						8			
				damp	2.2	2		CH	<b>Fat CLAY</b> ; uniform dark brown, soft, high plasticity
						3			
						4			
						10			
						11			
						12			
						13			
				damp	4.6	3			(stiff)
						6			
						8			
						14			
						15			
						16			
						17			
					18				
			damp	20.1	3			(10% grey-white coarse sand)	
					4				
					6				
					19				
					20				
					21				
					22				

PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd, Pleasanton, CA  
 DRILLER: Gregg DATE DRILLED: 10/9/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 44.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 44'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA

BORING/WELL NO: MW-3  
PAGE 2 OF 2



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								
						23		CH	cont.
			damp	2.0	4	24		SC	<b>Clayey SAND</b> ; medium brown, 75% sand, 25% clay, fine grained, loose
					6	25			
					11	26			
						27			
						28		CH	<b>Sandy CLAY</b> ; medium brown, 75% clay, 25% sand, fine grained, soft
			damp	2.0	4	29			
					7	30			
					8	31			
						32			
						33		CH	<b>Fat CLAY</b> ; medium brown, soft, high plasticity
			damp		5	34			
					6	35			(trace greenish tint to clay)
			damp		4	36			
					6	37			(stiff)
			wet damp		4	38			
					8	39			
			wet		5	40			
					6	41			(soft, no sand)
					8	42		SC	<b>Clayey SAND</b> ; brown to orange brown with black grains, 80% sand, 20% clay, fine grained
					11	43			(grades coarser, medium to coarse grained sand)
					7	44			
					11				
					15				
									<b>BOTTOM OF BORING @ 44.5 ft</b>

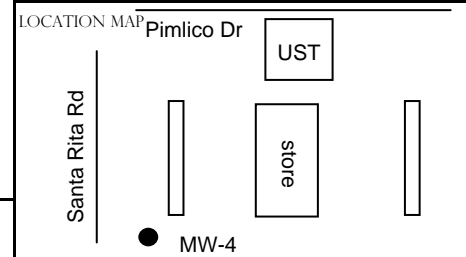


PROJECT NO: C81-6750 Santa Rita	CLIENT: Shell OPUS	BORING/WELL NO: MW-4
LOGGED BY: J. Pearson	LOCATION: 6750 Santa Rita Rd, Pleasanton, CA	PAGE 1 OF 2
DRILLER: Gregg	DATE DRILLED: 10/9/2002	LOCATION MAP 
DRILLING METHOD: HSA	HOLE DIAMETER: 8"	
SAMPLING METHOD: Split Spoon	HOLE DEPTH: 44.5'	
CASING TYPE: PVC	WELL DIAMETER: 2"	
SLOT SIZE: 0.010	WELL DEPTH: 44'	
GRAVEL PACK: 2-12	CASING STICKUP: NA	
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
Cement Grout		damp		↑ Air Knifed ↓	1		AF	Concrete ~2" thick
					2		SW	Fill ~8", well graded sand and gravel
		moist		3				<b>Well Graded SAND with Gravel</b> ; brown, fine to coarse sand, ~30% gravel, up to 1.5"
		moist		4			CL	<b>Lean CLAY with Gravel</b> ; dark brown, ~30% gravel, moderate plasticity
				5				(grades finer, <10% gravel)
		damp		6				
				7			CH	<b>Fat CLAY</b> ; dark brown, soft, high plasticity
		damp		8				
				9				
		damp	1.6	10				(stiff)
				11				
				12				
				13				
		dry/damp	1.5	14				(moderate plasticity)
				15				
				16				
				17				
				18				
		damp	2.6	19				(stiff, high plasticity)
				20				
				21				
				22				



PROJECT NO: C81-6750 Santa Rita CLIENT: Shell OPUS BORING/WELL NO: MW-4  
 LOGGED BY: J. Pearson LOCATION: 6750 Santa Rita Rd, Pleasonton, CA PAGE 2 OF 2  
 DRILLER: Gregg DATE DRILLED: 10/9/2002  
 DRILLING METHOD: HSA HOLE DIAMETER: 8"  
 SAMPLING METHOD: Split Spoon HOLE DEPTH: 44.5'  
 CASING TYPE: PVC WELL DIAMETER: 2"  
 SLOT SIZE: 0.010 WELL DEPTH: 44'  
 GRAVEL PACK: 2-12 CASING STICKUP: NA



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								
			damp	0.6	4 6 7	23 24 25		CH	cont. (color change from light brown to dark brown at 24')
			damp	0.1	4 5 10	29 30		SC	<b>Clayey SAND</b> ; medium brown, 70% sand, 30% clay fine grained, loose
		▽	wet		3 4 4 3 4 6 3 3 5 3 4 6 6 8 8 3 5 6 5 7 14	34 35 36 37 38 39 40 41 42 43 44		CH/ SC	<b>Fat CLAY and Clayey SAND</b> ; alternating 18" layers, (Fat clay is brown with greenish mottling and slight FeO staining, soft, high plasticity) (Clayey sand is medium brown, 70% sand, 30% clay, fine grained, dense)  (grades stiffer)
									<b>BOTTOM OF BORING @ 44.5 ft</b>

Bentonite

Sand

## **APPENDIX C**

---

### **WELL DEVELOPMENT FIELD DATA SHEETS**

# WELL DEVELOPMENT DATA SHEET

Project #: 021204 - RH1	Client: Shell
Developer: Ryan Hamstedt	Date Developed: 12/4/02
Well I.D. mw-1	Well Diameter: (circle one) ② 3 4 6
Total Well Depth: Before 41.10 After 41.80	Depth to Water: Before 31.75 After 40.45
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purging	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

1.5	X	10	=	15.0	gallons
1 Case Volume		Specified Volumes			

Purging Device: Bailer  Electric Submersible   
 Middleburg  Suction Pump

Type of Installed Pump \_\_\_\_\_

Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or μS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
926						Bottom feels silty, start w/ MB pump, sitate bottom while purging
934	61.4	6.9	2637	>200	1.5	very silty, dark brown
938	63.5	7.1	2720	>200	3.0	" " " "
941	63.6	7.1	2609	>200	4.5	Hard bottom, very silty, dark brown
944	63.6	7.0	2722	>200	6.0	brown, very silty
947	63.7	7.0	2721	>200	7.5	" " "
950	61.9	7.9	2660	>200	9.0	" " " , well dewatered
						Well dewatered @ 9.0 gal, DTW = 40.18, then DTW = 38.12 @ 1112
						At 1256 DTW = 36.97, surge for 10 min, then purge
1309	65.2	7.1	2710	>200	10.5	brown, silty, hard bottom
1311	64.0	7.4	2684	>200	12.0	" "
						Well dewatered @ 12.5 gal DTW = 40.45

Did Well Dewater? <u>Yes</u>	If yes, note above.	Gallons Actually Evacuated:	12.5
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# WELL DEVELOPMENT DATA SHEET

Project #: 021204 -RH1	Client: Shell
Developer: Ryan Hanstedt	Date Developed: 12/4/02
Well I.D. mw-2	Well Diameter: (circle one) ② 3 4 6
Total Well Depth: Before 41.60 After 42.15	Depth to Water: Before 31.25 After 39.96
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purging	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in 3/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

$$\frac{1.7}{1 \text{ Case Volume}} \times \frac{10}{\text{Specified Volumes}} = \frac{17.0}{\text{gallons}}$$

Purging Device: Bailer  Electric Submersible   
 Middleburg  Suction Pump

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or <u>µS</u> )	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1210						Bottom feels silty, begin w/ MB pump, agitate bottom
1215	65.0	6.9	3075	>200	1.7	brown, very silty
1218	65.1	7.0	3047	>200	3.4	" " "
1221	64.8	7.0	3117	>200	5.1	bottom is hard, brown, very silty
1224	64.1	7.0	3128	>200	6.8	doesn't feel like much water left, slow down in pump
1228	63.4	7.4	3035	>200	8.5	close to dewatering, slow down, brown, very silty
1235	63.7	7.3	3127	>200	10.2	brown, very silty
			Well dewatered @ 10.5 gal	DTW = 40.12		
1403	DTW = 35.57		Surged for 10 min before purging, then start w/ MB			
1417	65.6	7.0	3012	>200	11.9	bottom feels hard, brown, very silty
1420	65.2	7.0	3108	>200	13.6	brown, very silty
1423	64.8	7.3	2974	>200	15.3	brown, silty
1426	64.2	7.3	2981	>200	17.0	" "
Did Well Dewater? Yes	If yes, note above.		Gallons Actually Evacuated:		17.0	

↳ at 6 CV but got full 10 CV

# WELL DEVELOPMENT DATA SHEET

Project #: 021204 - RH1	Client: Shell
Developer: Ryan Hanstedt	Date Developed: 12/4/02
Well I.D. mw-3	Well Diameter: (circle one) ② 3 4 6
Total Well Depth: Before 43.05 After 44.12	Depth to Water: Before 31.65 After 38.80
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purging	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well din.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

$$\frac{1.8}{1 \text{ Case Volume}} \times \frac{10}{\text{Specified Volumes}} = \frac{18.0}{\text{gallons}}$$

Purging Device: Bailer  Electric Submersible   
 Middleburg  Suction Pump

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge block

Bottom feels silty, start w/ MB pump  
 agitate bottom

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1034	64.4	6.9	2340	>200	1.8	very silty, brown
1037	66.0	7.1	2347	>200	3.6	" " "
1040	66.1	7.0	2432	>200	5.4	Bottom feels harder, brown, very silty
1043	65.8	7.0	2635	>200	7.2	very silty, brown
1046	65.8	7.0	2510	>200	9.0	becoming less silty, brown
1049	65.5	7.2	2475	>200	10.8	slowed pump down, not much water left, brown silty
1053	65.2	7.4	2630	>200	12.6	brown, silty
Well dewatered @ 12.6 gal. DTW = 41.50						
1323	DTW = 31.70 Surged for 10 min prior to purging					
1335	Bottom feels a little silty, start w/ MB, agitate bottom					
1339	67.2	7.0	2810	>200	14.4	bottom feels harder, brown, silty
1343	67.3	7.0	2836	>200	16.2	brown, silty
1346	66.7	7.0	2900	>200	18.0	hard bottom, brown, silty
Did Well Dewater?	Yes If yes, note above.		Gallons Actually Evacuated:		18.0	

↳ @ 7 case volumes, but able to get full 10 CV

# WELL DEVELOPMENT DATA SHEET

Project #: 021204 - RH1	Client: Shell
Developer: Ryan Hanstedt	Date Developed: 12/4/02
Well I.D. mw-4	Well Diameter: (circle one) ② 3 4 6
Total Well Depth:	Depth to Water:
Before 44.05 After 44.25	Before 32.92 After 41.02
Reason not developed:	If Free Product, thickness:
Additional Notations: Surged for 15 min prior to purging	

Volume Conversion Factor (VCF):  
 $(12 \times (d^2/4) \times \pi) / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in 3/gal

Well dia.	VCF
2" =	0.16
3" =	0.37
4" =	0.65
6" =	1.47
10" =	4.08
12" =	6.87

1.8	X	10	=	18.0
1 Case Volume		Specified Volumes		gallons

Purging Device:    Bailer                       Electric Submersible   
                          Middleburg                       Suction Pump

Type of Installed Pump \_\_\_\_\_  
 Other equipment used 2" surge block

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
800						Bottom is almost hard. Start w/ MB pump and agitate bottom.
806	60.2	7.1	2490	>200	1.8	very silty, dark brown
810	62.3	6.9	2661	>200	3.6	bottom feels hard, very silty, dark brown
814	63.3	6.9	2610	>200	5.4	very silty, brown
818	63.8	6.9	2962	>200	7.2	definitely hard bottom, brown, silty
823	63.0	7.0	2518	>200	9.0	brown, slightly less silty
826	63.7	7.1	2482	>200	10.8	brown, silty, wants to dewater, slow down pump
833	63.3	7.0	2461	>200	12.6	lighter brown, less silty
839	62.5	7.0	2464	>200	14.4	clearing up, not as silty
846	62.7	7.0	2497	>200	16.2	cloudy
853	62.5	7.0	2508	>200	18.0	cloudy, w/ less silt
Did Well Dewater? NO		If yes, note above.		Gallons Actually Evacuated:		18.0

↳ but needed to slow the pump down @ the 6th case vol.

## **APPENDIX D**

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### **SITE SURVEY DATA**



# Mid Coast Engineers

Civil Engineers and Land Surveyors

70 Penny Lane, Suite A - Watsonville, CA 95076  
phone: (831) 724-2580  
fax: (831) 724-8025  
e-mail: lee@midcoastengineers.com

Richard A. Wadsworth  
Civil Engineer  
Stanley O. Nielsen  
Land Surveyor  
Lee D. Vaage  
Land Surveyor  
Jeff S. Nielsen  
Land Surveyor

November 25, 2002

Debbie Arnold  
KHM Environmental Management, Inc.  
6284 San Ignacio Avenue, Suite E  
San Jose, CA 95119

Re: **Shell-branded Service Station, 6750 Santa Rita Road, Pleasanton, California;** KHM  
Project C81-6750 Santa Rita, MCE Job No.02249

Dear Ms. Arnold,

As you requested, on November 22 we surveyed four monitoring wells located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the box (TOB).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points AA3813 (HPGN D CA 04 EK), AA3815 (HPGN D CA 04 FK) and HS5408 (HPGN CA 04 07), as published by NGS/NOAA and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 2, NAD 83 Datum. The accuracy range of the reported information is +/- 5mm. GPS equipment is the Trimble 5700 system (Code T57).

The benchmark used for this survey is Q 1257, a disk on the top of a copper coated rod, stamped "Q 1257 1974", at the junction of Santa Rita Road and Black Avenue, at the Amador Valley Community Park. Elevation = 341.578 feet, NGVD 29, as obtained from the City of Pleasanton Public Works Department.

Please let me know if you have questions or need additional information.

Yours truly,

  
Lee D. Vaage





**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

KHM Project C81-6750 Santa Rita

Project : 02249

User name MCE      Date & Time 3:03:46 PM 11/25/2002  
Coordinate System US State Plane 1983      Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point listing

Name	Northing	Easting	Elevation	Description
203	2080122.02	6164807.87	343.44	MW-4toc
204	2080122.51	6164807.90	343.87	MW-4tob
205	2080126.72	6164884.05	342.23	MW-3toc
206	2080127.18	6164884.06	342.78	MW-3tob
207	2080231.92	6164896.94	342.86	MW-2toc
208	2080232.29	6164896.99	343.19	MW-2tob
210	2080231.41	6164837.85	343.48	MW-1toc
211	2080231.88	6164837.92	343.79	MW-1tob

**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

KHM Project C81-6750 Santa Rita

Project : 02249

User name MCE      Date & Time 3:03:46 PM 11/25/2002  
Coordinate System US State Plane 1983      Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point listing

Name	Latitude	Longitude	Elevation	Description
203	37.699630258°N	121.871769391°W	343.44	MW-4toc
204	37.699631614°N	121.871769317°W	343.87	MW-4tob
205	37.699646248°N	121.871506370°W	342.23	MW-3toc
206	37.699647509°N	121.871506363°W	342.78	MW-3tob
207	37.699935644°N	121.871467122°W	342.86	MW-2toc
208	37.699936674°N	121.871466995°W	343.19	MW-2tob
210	37.699931853°N	121.871671319°W	343.48	MW-1toc
211	37.699933160°N	121.871671125°W	343.79	MW-1tob

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>SHELL-BRANDED SERVICE STATION</b>											
2	<b>6750 Santa Rita Road</b>											
3	<b>Pleasanton, California</b>											
4												
5	KHM Project C81-6750 Santa Rita											
6												
7	Project : 02249											
8	User name MCE Date & Time 3:03:46 PM 11/25/2002											
9	Coordinate System US State Plane 1983 Zone California Zone 3 0403											
10	Project Datum NAD 1983 (Conus)											
11	Vertical Datum NGVD29											
12	Coordinate Units US survey feet											
13	Distance Units US survey feet											
14	Elevation Units US survey feet											
15												
16	MW-1	MW	11/22/2002	37.6999319	-121.8716713	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing	
17	MW-2	MW	11/22/2002	37.6999356	-121.8714671	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing	
18	MW-3	MW	11/22/2002	37.6996462	-121.8715064	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing	
19	MW-4	MW	11/22/2002	37.6996303	-121.8717694	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing	

	A	B	C	D	E	F	G	H	I	J
1	<b>SHELL-BRANDED SERVICE STATION</b>									
2	<b>6750 Santa Rita Road</b>									
3	<b>Pleasanton, California</b>									
4										
5	KHM Project C81-6750 Santa Rita									
6										
7	Project : 02249									
8	User name MCE Date & Time 3:03:46 PM 11/25/2002									
9	Coordinate System US State Plane 1983 Zone California Zone 3 0403									
10	Project Datum NAD 1983 (Conus)									
11	Vertical Datum NGVD29									
12	Coordinate Units US survey feet									
13	Distance Units US survey feet									
14	Elevation Units US survey feet									
15										
16		MW-1	11/22/2002	343.48	CGPS	29		Mid Coast Engineers		top of casing
17		MW-2	11/22/2002	342.86	CGPS	29		Mid Coast Engineers		top of casing
18		MW-3	11/22/2002	342.23	CGPS	29		Mid Coast Engineers		top of casing
19		MW-4	11/22/2002	343.44	CGPS	29		Mid Coast Engineers		top of casing

## **APPENDIX E**

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### **SOIL LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION**



Report Number : 29114

Date : 10/17/02

Debbie Arnold  
KHM Environmental Management  
6284 San Ignacio Ave, #E  
San Jose, CA 95119

Subject : 7 Soil Samples  
Project Name : 6750 Santa Rita Road, Pleasanton  
Project Number : C81-6750 Santa Rita  
P.O. Number : 97402156

Dear Ms. Arnold,

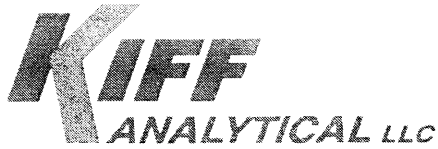
Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

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 : 29114

Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

Sample : **MW-2 @ 20 feet**

Matrix : Soil

Lab Number : 29114-01

Sample Date :10/8/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	10/12/02
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/12/02

Approved By:  Joel Kiff



Report Number : 29114

Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

Sample : **MW-3 @ 20 feet**

Matrix : Soil

Lab Number : 29114-02

Sample Date :10/9/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>Tert-Butanol</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	10/12/02
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	10/12/02

Approved By:  Joel Kiff





Report Number : 29114

Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

Sample : **Disposal A**

Matrix : Soil

Lab Number : 29114-03

Sample Date :10/8/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff



Report Number : 29114

Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

Sample : **Disposal B**

Matrix : Soil

Lab Number : 29114-04

Sample Date :10/8/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	10/14/02
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	10/14/02

Approved By: Joel Kiff



Report Number : 29114

Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

Sample : **Disposal C**

Matrix : Soil

Lab Number : 29114-05

Sample Date :10/9/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff



Report Number : 29114

Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

Sample : **Disposal D**

Matrix : Soil

Lab Number : 29114-06

Sample Date :10/9/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>TPH as Gasoline</b>	<b>&lt; 1.0</b>	1.0	mg/Kg	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	94.3		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff



Report Number : 29114

Date : 10/17/02

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

Sample : **Disposal A,B,C,D**

Matrix : Soil

Lab Number : 29114-07

Sample Date :10/8/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Toluene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Ethylbenzene</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Total Xylenes</b>	<b>&lt; 0.005</b>	0.005	mg/Kg	EPA 8260B	10/12/02
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.5</b>	0.5	mg/Kg	EPA 8260B	10/12/02
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	97.0		% Recovery	EPA 8260B	10/12/02

Approved By: Joel Kiff

Report Number : 29114

Date : 10/17/02

**QC Report : Method Blank Data**

Project Name : **6750 Santa Rita Road, Pleasanton**

Project Number : **C81-6750 Santa Rita**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/12/02
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	10/12/02
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	10/12/02
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	10/12/02
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	10/12/02
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Diisopropyl ether (DIPE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Ethyl-t-butyl ether (ETBE)	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Tert-amyl methyl ether (TAME)	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Tert-Butanol	< 0.5	0.5	mg/Kg	EPA 8260B	10/12/02
Toluene - d8 (Surr)	101		%	EPA 8260B	10/12/02
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	10/12/02

<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

Report Number : 29114

Date : 10/17/02

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **6750 Santa Rita Road,**

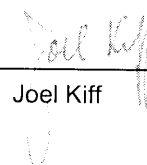
Project Number : **C81-6750 Santa Rita**

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	29114-01	<0.0050	0.0393	0.0396	0.0416	0.0355	mg/Kg	EPA 8260B	10/14/02	106	89.6	16.6	70-130	25
Toluene	29114-01	<0.0050	0.0393	0.0396	0.0409	0.0352	mg/Kg	EPA 8260B	10/14/02	104	89.0	15.6	70-130	25
Tert-Butanol	29114-01	<0.0050	0.196	0.198	0.188	0.150	mg/Kg	EPA 8260B	10/14/02	96.0	75.6	23.7	70-130	25
Methyl-t-Butyl Ether	29114-01	<0.0050	0.0393	0.0396	0.0394	0.0338	mg/Kg	EPA 8260B	10/14/02	100	85.3	16.1	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 : 29114

Date : 10/17/02

Project Name : **6750 Santa Rita Road,**

Project Number : **C81-6750 Santa Rita**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0397	mg/Kg	EPA 8260B	10/12/02	102	70-130
Toluene	0.0397	mg/Kg	EPA 8260B	10/12/02	96.3	70-130
Tert-Butanol	0.198	mg/Kg	EPA 8260B	10/12/02	94.5	70-130
Methyl-t-Butyl Ether	0.0397	mg/Kg	EPA 8260B	10/12/02	92.8	70-130

KIFF ANALYTICAL, LLC

Approved By: Joel Kiff

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





October 17, 2002

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

**Subject: Calscience Work Order No.: 02-10-0800**  
**Client Reference: 6750 Santa Rita Road, Pleasanton**

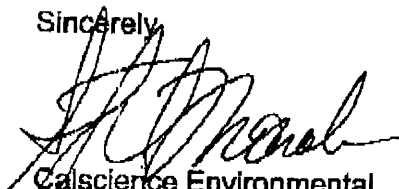
Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/12/2002 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



---

Michael J. Cifisostomo  
Quality Assurance Manager

**ANALYTICAL REPORT**

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

Date Received: 10/12/02  
Work Order No: 02-10-0800  
Preparation: Total Digestion  
Method: EPA 8010B

Project: 6750 Santa Rita Road, Pleasanton

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Disposal A,B,C,D	02-10-0800-1	10/08/02	Solid	10/14/02	10/16/02	021014L04

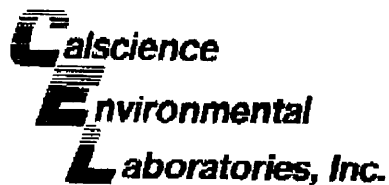
Parameter	Result	RL	DF	Qual	Units
Lead	7.47	0.50	1		mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-002-3,898	N/A	Solid	10/14/02	10/15/02	021014L04

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

RL - Reporting Limit    DF - Dilution Factor    Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92641-1432 • TEL: (714) 895-5494 • FAX: (714) 894-7501



Quality Control - Spike/Spike Duplicate

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

Date Received: 10/12/02  
 Work Order No: 02-10-0800  
 Preparation: Total Digestion  
 Method: EPA 6010B

Project: 6750 Santa Rita Road, Pleasanton

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
02-10-0795-1	Solid	ICP 3300	10/14/02	10/15/02	021014504

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	103	100	75-125	3	0-20	



### Quality Control - Laboratory Control Sample

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

Date Received: 10/12/02  
Work Order No: 02-10-0800  
Preparation: Total Digestion  
Method: EPA 6010B

Project: 6750 Santa Rita Road, Pleasanton

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-3,698	Solid	ICP 3300	10/15/02	021014-1-04	021014L04

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Lead	50.0	50.6	101	80-120	

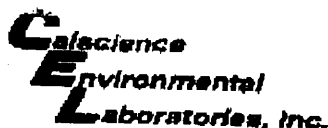
**Cal**science **GLOSSARY OF TERMS AND QUALIFIERS**  
**E**nvironmental  
**L**aboratories, Inc.

Work Order Number: 02-10-0800

---

<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.





WORK ORDER #: 02-00-0800

Cooler \_\_\_ of \_\_\_

SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 10/12/02

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than CalScience Courier):

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

Initial: RW

CUSTODY SEAL INTACT:

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

Initial: RW

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: RW

COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



2795 Second Street, Suite 300  
 Davis, CA 95818  
 Lab: 530.297.4800  
 Fax: 530.297.4803

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

02-10-0800

Lab No. \_\_\_\_\_ Page 1 of 1

Project Contact (Hardcopy or PDF to):

Joel Kiff

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:

C81-6750 Santa Rita

P.O. No.:

29114

EDF Deliverable to (Email Address):

Project Name:

6750 Santa Rita Road, Pleasanton

E-mail address:

inbox@kiffanalytical.com

Project Address:

Sampling

Container

Preservative

Matrix

Sample Designation

Date

Time

Glass Jar

Poly

Amber

HCl

HNO3

ICE

NONE

WATER

SOIL

TTLc Lead

STLc Lead if TTLc => 50 Mg/KG

ORGANIC Lead if TTLc => 13 MG/KG

CAM Metals- please hold\*

Date due:

October 24, 2002

For Lab Use Only

Disposal A,B,C,D

10/8/02

1

X

X

X

X

X

X

Relinquished by:

*Joel Kiff Analytical*

Date

10/10/02

Time

1:30

Received by:

Remarks: \*Metals to be determined.

Relinquished by:

Date

Time

Received by:

Incident# 97402156

Relinquished by:

*Cal Overnight*

Date

10/12

Time

12:15

Received by Laboratory:

*[Signature]*

Bill to:

TOTAL P.07

# EQUIVA Services L<sup>3</sup>C Chain Of Custody Record

720 Olive Drive, Suite D

Davis, CA 95616

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

**Equiva Project Manager to be invoiced:**

SCIENCE & ENGINEERING Karen Petryna

TECHNICAL SERVICES

CRMT-HOUSTON

29114

INCIDENT NUMBER (S&E ONLY)

9 7 4 0 2 1 5 6

SAP or CRMT NUMBER (TS/CRMT)

1 3 5 7 8 6

DATE: October 9, 2002

PAGE: 1 of 2

SAMPLING COMPANY: <b>KHM Environmental Mangement</b>		LOG CODE: <b>KHMS</b>	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO.:
ADDRESS: <b>6284 San Ignacio Ave., San Jose, CA 95119</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Debbie Arnold</b>		PHONE NO.: <b>(408) 224-4724</b>	E-MAIL: <b>darnold@khm1.com</b>
PROJECT CONTACT #hardcopy or PDF Report to: <b>Debbie Arnold</b>		SAMPLER NAME(S) (Print): <b>Jonathan Pearson</b>		CONSULTANT PROJECT NO.: <b>C81-6750 Santa Rita</b>	
TELEPHONE: <b>(408) 224-4724</b>	FAX: <b>(408) 224-4518</b>	E-MAIL: <b>darnold@khm1.com</b>	LAB USE ONLY		

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

LA - RWQCB REPORT FORMAT  UST AGENCY: \_\_\_\_\_

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ CHECK BOX IF EDD IS NEEDED

**REQUESTED ANALYSIS**

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-_____)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note
X	X			X													
X	X			X													

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

Lab Use Only	Field Sample Identification		SAMPLING		MATRX	NO. OF CONT.
	DATE	TIME				
	MW-2 @ 20 feet	10/8/02	10:15	soil	1	
	MW-3 @ 20 feet	10/9/02	8:40	soil	1	

TEMPERATURE ON RECEIPT °C

-01  
-02

Received by: (Signature) 	Date:	Time:
Relinquished by: (Signature)	Date:	Time:
Received by: (Signature) 	Date: 10/09/02	Time: 11:17

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



# EQUIVA Services LLC Chain Of Custody Record

720 Olive Drive, Suite D  
Davis, CA 95616

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

Equiva Project Manager to be invoiced:

SCIENCE & ENGINEERING Karen Petryna  
 TECHNICAL SERVICES  
 CRMT HOUSTON

29114

INCIDENT NUMBER (S&E ONLY)

9 7 4 0 2 1 5 6

SAP or CRMT NUMBER (TS/CRMT)

1 3 5 7 8 6

DATE: October 9, 2002

PAGE: 2 of 2

SAMPLING COMPANY: <b>KHM Environmental Mangement</b>		LOG CODE: <b>KHMS</b>	SITE ADDRESS (Street and City): <b>6750 Santa Rita Road, Pleasanton</b>		GLOBAL ID NO.:
ADDRESS: <b>6284 San Ignacio Ave., San Jose, CA 95119</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Debbie Arnold</b>		PHONE NO.: <b>(408) 224-4724</b>	E-MAIL: <b>darnold@khm1.com</b>
PROJECT CONTACT (hardcopy or PDF Report to): <b>Debbie Arnold</b>		SAMPLER NAME(S) (Print): <b>Jonathan Pearson</b>		CONSULTANT PROJECT NO.: <b>C81-6750 Santa Rita</b>	
TELEPHONE: <b>(408) 224-4724</b>	FAX: <b>(408) 224-4518</b>	E-MAIL: <b>darnold@khm1.com</b>		LAB USE ONLY:	

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED   
 Disposal Test includes lead and CAM metals.

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (S) by (8260B)	Ethanol (8260E)	Methanol	EDB & 1,2-DCA (8260E)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B- includes lead + all CAM metals)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note

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

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.
	DATE	TIME				
	Disposal A	10/8/02	14:00	soil	1	
	Disposal B	10/8/02	17:00	soil	1	
	Disposal C	10/9/02	8:45	soil	1	
	Disposal D	10/9/02	14:08	soil	1	

TEMPERATURE ON RECEIPT °  
 -03 }  
 -04 } 07  
 -05 }  
 -06 }

Received by (Signature):	Date: _____	Time: _____
Relinquished by (Signature): _____	Received by (Signature): _____	Date: _____
Relinquished by (Signature): _____	Received by (Signature): _____	Date: _____
Relinquished by (Signature): _____	Received by (Signature): <i>John Kiff Analytical</i>	Date: 101002
		Time: 1117

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

## **APPENDIX F**

---

### **WELL GAUGING DATA**



# WELL GAUGING DATA

Project # 021204-RH1 Date 12/4/02 Client Shell

Site 6750 Santa Rita Rd. Pleasanton

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>100</u>
mw-1	2					31.75	41.10	↓
mw-2	2					31.25	41.60	
mw-3	2					31.65	43.05	
mw-4	2					32.92	44.10	

**APPENDIX G**

---

**GROUNDWATER LABORATORY REPORT  
AND  
CHAIN-OF-CUSTODY DOCUMENTATION**



Report Number : 30559

Date : 1/2/2003

Leon Gearhart  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112-1105

Subject : 4 Water Samples  
Project Name : 6750 Santa Rita Rd., Pleasanton  
Project Number : 021220-SS2  
P.O. Number : 97402156

Dear Mr. Gearhart,

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 that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 30559

Date : 1/2/2003

Subject : 4 Water Samples  
Project Name : 6750 Santa Rita Rd., Pleasanton  
Project Number : 021220-SS2  
P.O. Number : 97402156

## Case Narrative

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples MW-1, MW-2 and MW-3.

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style and is positioned above a horizontal line.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 916-297-4800



Report Number : 30559

Date : 1/2/2003

Project Name : **6750 Santa Rita Rd., Pleasanton**

Project Number : **021220-SS2**

Sample : **MW-1**

Matrix : Water

Lab Number : 30559-01

Sample Date :12/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/26/2002
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/26/2002
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/26/2002
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/26/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>62</b>	0.50	ug/L	EPA 8260B	12/26/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/26/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/26/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/26/2002
<b>Tert-Butanol</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	12/26/2002
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	12/26/2002
Toluene - d8 (Surr)	94.4		% Recovery	EPA 8260B	12/26/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	12/26/2002
<b>TPH as Diesel</b>	<b>81</b>	50	ug/L	M EPA 8015	12/26/2002

Approved By:  Joel Kiff

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





Report Number : 30559

Date : 1/2/2003

Project Name : **6750 Santa Rita Rd., Pleasanton**

Project Number : **021220-SS2**

Sample : **MW-2**

Matrix : Water

Lab Number : 30559-02

Sample Date :12/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/31/2002
<b>Toluene</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/31/2002
<b>Ethylbenzene</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/31/2002
<b>Total Xylenes</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/31/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>660</b>	2.0	ug/L	EPA 8260B	12/31/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/31/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/31/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/31/2002
<b>Tert-Butanol</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	12/31/2002
<b>TPH as Gasoline</b>	<b>&lt; 200</b>	200	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	108		% Recovery	EPA 8260B	12/31/2002
<b>TPH as Diesel</b>	<b>120</b>	50	ug/L	M EPA 8015	12/29/2002

Approved By: Joel Kiff



Report Number : 30559

Date : 1/2/2003

Project Name : **6750 Santa Rita Rd., Pleasanton**

Project Number : **021220-SS2**

Sample : **MW-3**

Matrix : Water

Lab Number : 30559-03

Sample Date :12/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 20</b>	20	ug/L	EPA 8260B	12/30/2002
<b>Toluene</b>	<b>&lt; 20</b>	20	ug/L	EPA 8260B	12/30/2002
<b>Ethylbenzene</b>	<b>&lt; 20</b>	20	ug/L	EPA 8260B	12/30/2002
<b>Total Xylenes</b>	<b>&lt; 20</b>	20	ug/L	EPA 8260B	12/30/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>8000</b>	20	ug/L	EPA 8260B	12/30/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 20</b>	20	ug/L	EPA 8260B	12/30/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 20</b>	20	ug/L	EPA 8260B	12/30/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 20</b>	20	ug/L	EPA 8260B	12/30/2002
<b>Tert-Butanol</b>	<b>1500</b>	200	ug/L	EPA 8260B	12/30/2002
<b>TPH as Gasoline</b>	<b>&lt; 2000</b>	2000	ug/L	EPA 8260B	12/30/2002
Toluene - d8 (Surr)	94.9		% Recovery	EPA 8260B	12/30/2002
4-Bromofluorobenzene (Surr)	113		% Recovery	EPA 8260B	12/30/2002
<b>TPH as Diesel</b>	<b>72</b>	50	ug/L	M EPA 8015	12/29/2002

Approved By:  Joel Kiff



Report Number : 30559

Date : 1/2/2003

Project Name : **6750 Santa Rita Rd., Pleasanton**

Project Number : **021220-SS2**

Sample : **MW-4**

Matrix : Water

Lab Number : 30559-04

Sample Date :12/20/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/29/2002
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/29/2002
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/29/2002
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	12/29/2002
<b>Methyl-t-butyl ether (MTBE)</b>	<b>93</b>	0.50	ug/L	EPA 8260B	12/29/2002
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/29/2002
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/29/2002
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 2.0</b>	2.0	ug/L	EPA 8260B	12/29/2002
<b>Tert-Butanol</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	12/29/2002
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	12/29/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/29/2002
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	12/29/2002
<b>TPH as Diesel</b>	<b>&lt; 50</b>	50	ug/L	M EPA 8015	12/29/2002

Approved By:  Joel Kiff

Report Number : 30559

Date : 1/2/2003

**QC Report : Method Blank Data**

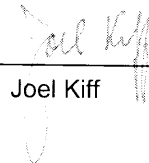
Project Name : **6750 Santa Rita Rd., Pleasanton**

Project Number : **021220-SS2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/26/2002
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/29/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/30/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/30/2002
Toluene - d8 (Surr)	94.8		%	EPA 8260B	12/30/2002
4-Bromofluorobenzene (Surr)	107		%	EPA 8260B	12/30/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/28/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/28/2002
Toluene - d8 (Surr)	99.7		%	EPA 8260B	12/28/2002
4-Bromofluorobenzene (Surr)	99.7		%	EPA 8260B	12/28/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/26/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/26/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/26/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/26/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/26/2002
Toluene - d8 (Surr)	86.8		%	EPA 8260B	12/26/2002
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	12/26/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/28/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/28/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/28/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/28/2002
Toluene - d8 (Surr)	100		%	EPA 8260B	12/28/2002
4-Bromofluorobenzene (Surr)	99.0		%	EPA 8260B	12/28/2002

Approved By: Joel Kiff



KIFF ANALYTICAL, LLC

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

Report Number : 30559

Date : 1/2/2003

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **6750 Santa Rita Rd.,**

Project Number : **021220-SS2**

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	30565-09	<0.50	39.6	39.7	37.3	36.1	ug/L	EPA 8260B	12/31/02	94.2	91.0	3.48	70-130	25
Toluene	30565-09	<0.50	39.6	39.7	33.9	34.0	ug/L	EPA 8260B	12/31/02	85.7	85.8	0.146	70-130	25
Tert-Butanol	30565-09	<5.0	198	198	175	197	ug/L	EPA 8260B	12/31/02	88.3	99.2	11.6	70-130	25
Methyl-t-Butyl Ether	30565-09	<0.50	39.6	39.7	37.2	38.3	ug/L	EPA 8260B	12/31/02	93.9	96.6	2.89	70-130	25
Benzene	30638-05	<0.50	40.0	40.0	39.6	39.2	ug/L	EPA 8260B	12/28/02	99.1	98.0	1.17	70-130	25
Toluene	30638-05	<0.50	40.0	40.0	37.7	37.6	ug/L	EPA 8260B	12/28/02	94.2	94.0	0.239	70-130	25
Tert-Butanol	30638-05	11	200	200	212	214	ug/L	EPA 8260B	12/28/02	100	102	1.15	70-130	25
Methyl-t-Butyl Ether	30638-05	55	40.0	40.0	87.7	88.8	ug/L	EPA 8260B	12/28/02	80.8	83.6	3.41	70-130	25
Benzene	30559-01	<0.50	40.0	40.0	41.2	41.6	ug/L	EPA 8260B	12/26/02	103	104	0.797	70-130	25
Toluene	30559-01	<0.50	40.0	40.0	34.5	35.0	ug/L	EPA 8260B	12/26/02	86.2	87.4	1.50	70-130	25
Tert-Butanol	30559-01	18	200	200	250	239	ug/L	EPA 8260B	12/26/02	116	110	4.80	70-130	25
Methyl-t-Butyl Ether	30559-01	62	40.0	40.0	100	99.9	ug/L	EPA 8260B	12/26/02	95.2	94.5	0.764	70-130	25
Benzene	30636-02	<0.50	40.0	40.0	40.5	39.7	ug/L	EPA 8260B	12/28/02	101	99.3	1.87	70-130	25
Toluene	30636-02	<0.50	40.0	40.0	39.0	38.6	ug/L	EPA 8260B	12/28/02	97.4	96.6	0.825	70-130	25
Tert-Butanol	30636-02	<5.0	200	200	202	195	ug/L	EPA 8260B	12/28/02	101	97.7	3.32	70-130	25
Methyl-t-Butyl Ether	30636-02	<0.50	40.0	40.0	38.7	38.5	ug/L	EPA 8260B	12/28/02	96.8	96.2	0.647	70-130	25
TPH as Diesel	Blank	<50	1000	1000	962	919	ug/L	M EPA 8015	12/26/02	96.2	91.9	4.54	70-130	25

*Joel Kiff*

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 30559

Date : 1/2/2003

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **6750 Santa Rita Rd.,**

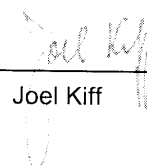
Project Number : **021220-SS2**

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
TPH as Diesel	Blank	<50	1000	1000	1050	1100	ug/L	M EPA 8015	12/29/02	105	110	4.40	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Joel Kiff



Report Number : 30559

Date : 1/2/2003

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **6750 Santa Rita Rd.,**

Project Number : **021220-SS2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/30/02	105	70-130
Toluene	40.0	ug/L	EPA 8260B	12/30/02	95.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/30/02	85.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/30/02	101	70-130
Benzene	40.0	ug/L	EPA 8260B	12/28/02	92.8	70-130
Toluene	40.0	ug/L	EPA 8260B	12/28/02	92.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/28/02	97.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/28/02	81.0	70-130
Benzene	40.0	ug/L	EPA 8260B	12/26/02	100	70-130
Toluene	40.0	ug/L	EPA 8260B	12/26/02	95.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/26/02	115	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/26/02	103	70-130
Benzene	40.0	ug/L	EPA 8260B	12/28/02	98.9	70-130
Toluene	40.0	ug/L	EPA 8260B	12/28/02	95.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/28/02	95.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/28/02	93.8	70-130

KIFF ANALYTICAL, LLC

Approved By:  Joel Kiff

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

LAB: KIFF

# SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON

Lynn Walker

30559

INCIDENT NUMBER (S&E ONLY)

9 7 4 0 2 1 5 6

SAP or CRMT NUMBER (TS/CRMT)

DATE: 12/20/02

PAGE: 1 of 1

SAMPLING COMPANY <b>Blaine Tech Services</b>		LOG CODE <b>BTSS</b>	SITE ADDRESS (Street and City): <b>6750 Santa Rita Rd., Pleasanton</b>		GLOBAL ID NO. <b>pending</b>
ADDRESS <b>1680 Rogers Avenue, San Jose, CA 95112</b>		EDF DELIVERABLE TO (Responsible Party or Designee): <b>Debbie Arnold</b>		PHONE NO.: <b>(408)224-4724</b>	E-MAIL: <b>darnold@khm1.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to) <b>Leon Gearhart</b>		SAMPLER NAME(S) (Print) <b>SUCKED ON SUNG</b>		CONSULTANT PROJECT NO. <b>BTS # 0220-SSP</b>	
TELEPHONE <b>408-573-0555</b>	FAX <b>408-573-7771</b>	E-MAIL <b>lgearhart@blainetech.com</b>		LAB USE ONLY	

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable					TPH - Diesel, Extractable	TEMPERATURE ON RECEIPT C°
		DATE	TIME			BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	TPH - Diesel, Extractable		
	MW-1	12/20/02	1350	GW	5	X	X		X	X		-01
	MW-2	↓	1300	↓	↓	X	X		X	X		-02
	MW-3	↓	1245	↓	↓	X	X		X	X		-03
	MW-4	↓	1156	↓	↓	X	X		X	X		-04

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

Relinquished by (Signature):	Received by (Signature):	Date: <u>12/23/02</u>	Time: <u>1017</u>
Relinquished by (Signature):	Received by (Signature):	Date: <u>12/23/02</u>	Time: <u>1017</u>
Relinquished by (Signature):	Received by (Signature):	Date: <u>12/23/02</u>	Time: <u>1017</u>

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



**APPENDIX H**

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**UNAUTHORIZED RELEASE REPORT**

# UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY  
 YES  NO  
 HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED?  
 YES  NO

FOR LOCAL AGENCY USE ONLY  
 I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM

REPORT DATE: 01/01/03 CASE #

SIGNED: \_\_\_\_\_ DATE

REPORTED BY: Karen Petryna  
 NAME OF INDIVIDUAL FILING REPORT: Karen Petryna  
 REPRESENTING:  OWNER/OPERATOR  REGIONAL BOARD  
 LOCAL AGENCY  OTHER  
 ADDRESS: P.O. Box 7469 Burbank CA 91510

PHONE: (559) 645-9306  
 SIGNATURE: Karen Petryna  
 COMPANY OR AGENCY NAME: Shell Oil Products US

RESPONSIBLE PARTY: Shell Oil Products US  UNKNOWN  
 ADDRESS: 2255 N. Ontario Burbank CA 91504

CONTACT PERSON: Karen Petryna CA 91504  
 PHONE: (559) 645-9306

BITE LOCATION: FACILITY NAME (IF APPLICABLE): Shell Service Station  
 ADDRESS: 6750 Santa Rita Rd Pleasanton Alameda 94589  
 CROSS STREET: Pimlico Dr

OPERATOR: \_\_\_\_\_ PHONE: ( )  
 COUNTY: \_\_\_\_\_ ZIP: \_\_\_\_\_

REPORTING AGENCIES: LOCAL AGENCY: Livermore-Pleasanton Fire Department  
 AGENCY NAME: \_\_\_\_\_ CONTACT PERSON: Danielle Stefani PHONE: (925) 454-2338  
 REGIONAL BOARD: San Francisco Bay Region, RWQCB CONTACT PERSON: Chuck Headlee PHONE: (510) 254-0435

NAME: \_\_\_\_\_ QUANTITY LOST (GAL/LIME): \_\_\_\_\_  
 UNKNOWN

SUBSTANCES INVOLVED: (1) MTBE, TPH-D, Test - Butanol  
 (2) \_\_\_\_\_

DATE DISCOVERED: 01/01/03  
 HOW DISCOVERED:  TANK TEST  TANK REMOVAL  INVENTORY CONTROL  SUBSURFACE MONITORING  NUISANCE CONDITIONS  
 OTHER

DATE DISCHARGE BEGAN: \_\_\_\_\_  
 HAS DISCHARGE BEEN STOPPED?  YES  NO IF YES, DATE: \_\_\_\_\_  
 UNKNOWN

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY):  
 REMOVE CONTENTS  CLOSE TANK & REMOVE  REPAIR PIPING  
 REPAIR TANK  CLOSE TANK & FILL IN PLACE  CHANGE PROCEDURE  
 REPLACE TANK  OTHER

SOURCE OF DISCHARGE:  TANK LEAK  UNKNOWN  PIPING LEAK  OTHER

CAUSE(S):  OVERFILL  RUPTURE/FAILURE  SPILL  
 CORROSION  UNKNOWN  OTHER

CASE TYPE: CHECK ONE ONLY  
 UNDETERMINED  SOIL ONLY  GROUNDWATER  DRINKING WATER (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS: CHECK ONE ONLY  
 NO ACTION TAKEN  PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED  POLLUTION CHARACTERIZATION  
 LEAK BEING CONFIRMED  PRELIMINARY SITE ASSESSMENT UNDERWAY  POST-CLEANUP MONITORING IN PROGRESS  
 REMEDIATION PLAN  CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY)  CLEANUP UNDERWAY

REMEDIATION ACTION: CHECK APPROPRIATE ACTION(S) (SEE SPECIAL INSTRUCTIONS)  
 CAP SITE (C1)  EXCAVATE & DISPOSE (E1)  REMOVE FREE PRODUCT (FP)  ENHANCED BIO-DEGRADATION (BT)  
 CONTAINMENT BARRIER (CB)  EXCAVATE & TREAT (ET)  PUMP & TREAT GROUNDWATER (GT)  REPLACE SUPPLY (RS)  
 VACUUM EXTRACT (VE)  NO ACTION REQUIRED (NA)  TREATMENT AT HOOKUP (HL)  TEST SOIL (TS)  
 OTHER (OT) Monitor Groundwater

COMMENTS: Groundwater Samples from new monitoring wells  
Max MTBE = 8000 ug/L, Max TPH-D = 120 ug/L,  
Max TBA = 1500 ug/L

### Groundwater Monitoring Well Construction Data

Shell-branded Service Station

6750 Santa Rita Road

Pleasanton, CA

Well	Date Installed	Total Depth (feet)	Screened Interval (feet)	Sand Pack Interval (feet)	Elevation Top of Casing (feet MSL)
MW-1	10/8/2002	42	27 to 42	25 to 42.5	343.48
MW-2	10/8/2002	42	27 to 42	25 to 42.5	342.86
MW-3	10/9/2002	44	29 to 44	27 to 44.5	342.23
MW-4	10/9/2002	44	29 to 44	27 to 44.5	343.44
MW-5	1/26/2005	32	27 to 32	26 to 32	340.88
MW-6	11/22/2005	29	25 to 29	24 to 29	342.97
MW-7	11/22/2005	29	25 to 29	24 to 29	341.21

**Table 2**  
**Summary of Groundwater Data**  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, California

Well Designation	Sample Name	Date Sampled	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylene (ug/l)	TBA (ug/l)	MTBE (ug/l)
<b>MW-1</b>	<b>MW-1 5 GAL</b>	7/30/2004	<1000	<10	<10	<10	<10	<b>830</b>	<b>1,400</b>
	<b>MW-1 125 GAL</b>	8/2/2004	<500	<5.0	<5.0	<5.0	<10	<b>910</b>	<b>840</b>
	<b>MW-1</b>	8/5/2004	<500	<5.0	<5.0	<5.0	<10	<50	<b>770</b>
	<b>MW-1</b>	8/11/2004	<500	<5.0	<5.0	<5.0	<10	<b>430</b>	<b>770</b>
<b>Quarterly Sampling</b>	<b>MW-1</b>	4/6/2004	<1300	<13	<13	<13	<25	<b>3,500</b>	<b>3,300</b>
		7/30/2004	<1300	<13	<13	<13	<25	<b>600</b>	<b>1,000</b>
		10/7/2004	<250	<2.5	<2.5	<2.5	<5	<b>390</b>	<b>530</b>
		1/26/2005	<250	<2.5	<2.5	<2.5	<5	<b>130</b>	<b>320</b>
		4/14/2005	<150	<1.5	<1.5	<1.5	<1.5	<b>260</b>	<b>720</b>
		7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	<b>150</b>	<b>270</b>
		10/2/2005	<250	<2.5	<2.5	<2.5	>5.0	<25	<b>39</b>
<b>MW-2</b>	<b>MW-2 25 GAL</b>	7/20/2004	<2500	<25	<25	<25	<50	<b>3,500</b>	<b>3,500</b>
	<b>MW-2 600 GAL</b>	7/23/2004	<2500	<25	<25	<25	<50	<b>3,100</b>	<b>3,300</b>
	<b>MW-2 1300 GAL</b>	7/27/2004	<2500	<25	<25	<25	<50	<b>2,400</b>	<b>2,800</b>
	<b>MW-2 1925 GAL</b>	7/30/2004	<2000	<20	<20	<20	<40	<b>2,100</b>	<b>2,000</b>
	<b>MW-2 11 GAL</b>	1/18/2005	<2500	<25	<25	<25	<50	<b>4,000</b>	<b>5,200</b>
	<b>MW-2 2950 GAL</b>	1/31/2005	<2500	<25	<25	<25	<50	<b>850</b>	<b>1,300</b>
	<b>MW-2 50 GAL</b>	9/26/2005	<1000	<10	<10	<10	<20	<b>280</b>	<b>2,600</b>
	<b>MW-2 475 GAL</b>	10/3/2005	<1000	<10	<10	<10	<20	<b>370</b>	<b>1,800</b>
	<b>MW-2 1100 GAL</b>	10/7/2005	<500	<5.0	<5.0	<5.0	<10	<b>130</b>	<b>1,300</b>
	<b>Quarterly Sampling</b>	<b>MW-2</b>	4/6/2004	<2000	<20	<20	<20	<40	<b>5,100</b>
7/30/2004			<500	<5.0	<5.0	<5.0	<10	<b>950</b>	<b>1,000</b>
10/7/2004			<2500	<25	<25	<25	<50	<b>6,500</b>	<b>6,300</b>
1/26/2005			<1300	<13	<13	<13	<25	<b>2,300</b>	<b>2,100</b>
4/14/2005			<500	<5.0	<5.0	<5.0	<5.0	<b>1,100</b>	<b>2,400</b>
7/29/2005			<2500	<25	<25	<25	<50	<b>1,500</b>	<b>3,900</b>
10/2/2005			<2500	<25	<25	<25	<50	<b>480</b>	<b>2,500</b>
<b>MW-3</b>	<b>MW-3 @ 30 GAL</b>	9/2/2004	<1300	<13	<13	<13	<25	<b>1,700</b>	<b>2,000</b>
	<b>MW-3 @ 250 GAL</b>	9/3/2004	<1300	<13	<13	<13	<25	<b>1,600</b>	<b>2,600</b>
	<b>MW-3 @ 2300 GAL</b>	9/7/2004	<1000	<10	<10	<10	<20	<b>1,700</b>	<b>2,600</b>
	<b>MW-3 END</b>	9/10/2004	<1000	<10	<10	<10	<20	<b>1,600</b>	<b>3,600</b>
<b>Quarterly Sampling</b>	<b>MW-3</b>	4/6/2004	<5000	<50	<50	<50	<100	<b>2,100</b>	<b>4,200</b>
		7/30/2004	<2500	<25	<25	<25	<50	<b>1,200</b>	<b>3,000</b>
		10/7/2004	<1000	<10	<10	<10	<20	<b>320</b>	<b>860</b>
		1/26/2005	<500	<5.0	<5.0	<5.0	<10	<b>250</b>	<b>820</b>
		4/14/2005	<400	<4.0	<4.0	<4.0	<4.0	<b>590</b>	<b>2,200</b>
		7/29/2005	<2,500	<25	<25	<25	<50	<b>1,700</b>	<b>3,100</b>
		10/2/2005	<2,000	<20	<20	<20	<40	<b>220</b>	<b>1,700</b>
<b>Quarterly Sampling</b>	<b>MW-4</b>	4/6/2004	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<b>16</b>
		7/30/2004	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<b>25</b>
		10/7/2004	<50	<0.5	<0.5	<0.5	<1.0	<5.0	<b>35</b>
		1/26/2005	<250	<2.5	<2.5	<2.5	<5.0	<b>43</b>	<b>450</b>
		4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<b>210</b>
		7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	<b>11</b>	<b>57</b>
10/2/2005	<250	<2.5	<2.5	<2.5	<5.0	<5.0	<b>44</b>		

**Table 2**  
**Summary of Groundwater Data**  
 Shell-branded Service Station  
 6750 Santa Rita Road  
 Pleasanton, California

Well Designation	Sample Name	Date Sampled	TPH-G (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethly-benzene (ug/l)	Xylene (ug/l)	TBA (ug/l)	MTBE (ug/l)
<b>Quarterly Sampling</b>	<b>MW-5</b>	2/10/2005	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<b>5.1</b>
		4/14/2005	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50
		7/29/2005	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
		10/2/2005	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50
<b>Notes:</b> All analysis performed by EPA Method 8260B ug/l = micrograms per liter TPH-G = Total petroleum hydrocarbons as gasoline MTBE = Methyl tert-butyl ether TBA = Tert-Butanol									

**TABLE 1**  
**Groundwater Extraction - Mass Removal Data**  
Shell Branded Service Station, Mass Removal Data  
6750 Santa Rita Road, Pleasanton, California  
6750 Santa Rita Road  
Pleasanton, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	<u>TPH-G</u>			<u>Benzene</u>			<u>MTBE</u>		
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
07/30/04	MW-1	5	5	07/30/04	<1,000	0.00002	0.00002	<10	0.00000	0.00000	1,400	0.00006	0.00006
08/02/04	MW-1	120	125	08/02/04	<500	0.00025	0.00027	<5.0	0.00000	0.00000	840	0.00084	0.00090
08/05/04	MW-1	50	175	08/05/04	<500	0.00010	0.00038	<5.0	0.00000	0.00000	770	0.00032	0.00122
08/11/04	MW-1	105	280	08/11/04	<500	0.00022	0.00059	<5.0	0.00000	0.00001	770	0.00067	0.00190
05/19/03	MW-2/MW-3	67	347	05/09/03	6,125	0.00342	0.00402	<75	0.00002	0.00003	9,500	0.00531	0.00721
05/31/03	MW-2/MW-3	38	385	05/09/03	6,125	0.00194	0.00596	<75	0.00001	0.00004	9,500	0.00301	0.01022
06/13/03	MW-2/MW-3	58	443	05/09/03	6,125	0.00296	0.00893	<75	0.00002	0.00006	9,500	0.00460	0.01482
06/26/03	MW-2/MW-3	48	491	05/09/03	6,125	0.00245	0.01138	<75	0.00002	0.00007	9,500	0.00381	0.01862
06/30/03	MW-2	20	511	05/09/03	<2,500	0.00021	0.01159	<25	0.00000	0.00007	4,000	0.00067	0.01929
07/31/03	MW-2	60	571	07/08/03	<2,000	0.00050	0.01209	<20	0.00001	0.00008	2,800	0.00140	0.02069
08/29/03	MW-2	25	596	07/08/03	<2,000	0.00021	0.01230	<20	0.00000	0.00008	2,800	0.00058	0.02128
09/22/03	MW-2	25	621	07/08/03	<2,000	0.00021	0.01251	<20	0.00000	0.00008	2,800	0.00058	0.02186
10/28/03	MW-2	45	666	10/03/03	<2,000	0.00038	0.01288	<20	0.00000	0.00009	3,600	0.00135	0.02321
11/24/03	MW-2	21	687	10/03/03	<2,000	0.00018	0.01306	<20	0.00000	0.00009	3,600	0.00063	0.02384
12/29/03	MW-2	43	730	10/03/03	<2,000	0.00036	0.01341	<20	0.00000	0.00009	3,600	0.00129	0.02513
07/20/04	MW-2	25	755	07/20/04	<2,500	0.00026	0.01368	<25	0.00000	0.00009	3,500	0.00073	0.02586
07/23/04	MW-2	575	1,330	07/23/04	<2,500	0.00600	0.01967	<25	0.00006	0.00015	3,300	0.01583	0.04170
07/27/04	MW-2	700	2,030	07/27/04	<2,500	0.00730	0.02697	<25	0.00007	0.00023	2,800	0.01635	0.05805
07/30/04	MW-2	625	2,655	07/30/04	<2,000	0.00522	0.03219	<20	0.00005	0.00028	2,000	0.01043	0.06848
<b>01/20/05</b>	<b>MW-2</b>	<b>421</b>	<b>3,076</b>	<b>01/18/05</b>	<b>&lt;2,500</b>	<b>0.00439</b>	<b>0.03658</b>	<b>&lt;25</b>	<b>0.00004</b>	<b>0.00032</b>	<b>5,200</b>	<b>0.01827</b>	<b>0.08675</b>
<b>01/21/05</b>	<b>MW-2</b>	<b>164</b>	<b>3,240</b>	<b>01/18/05</b>	<b>&lt;2,500</b>	<b>0.00171</b>	<b>0.03829</b>	<b>&lt;25</b>	<b>0.00002</b>	<b>0.00034</b>	<b>5,200</b>	<b>0.00712</b>	<b>0.09387</b>
<b>01/24/05</b>	<b>MW-2</b>	<b>554</b>	<b>3,794</b>	<b>01/18/05</b>	<b>&lt;2,500</b>	<b>0.00578</b>	<b>0.04407</b>	<b>&lt;25</b>	<b>0.00006</b>	<b>0.00040</b>	<b>5,200</b>	<b>0.02404</b>	<b>0.11790</b>
<b>01/26/05</b>	<b>MW-2</b>	<b>377</b>	<b>4,171</b>	<b>01/26/05</b>	<b>&lt;1,300</b>	<b>0.00204</b>	<b>0.04611</b>	<b>&lt;25</b>	<b>0.00004</b>	<b>0.00044</b>	<b>2,100</b>	<b>0.00661</b>	<b>0.12451</b>
<b>01/31/05</b>	<b>MW-2</b>	<b>1,434</b>	<b>5,605</b>	<b>01/31/05</b>	<b>&lt;2,500</b>	<b>0.01496</b>	<b>0.06107</b>	<b>&lt;25</b>	<b>0.00015</b>	<b>0.00059</b>	<b>&lt;1,300</b>	<b>0.01556</b>	<b>0.14007</b>
06/30/03	MW-3	95	2,750	05/09/03	11,000	0.00872	0.04091	<100	0.00004	0.00032	15,000	0.01189	0.08037

**TABLE 1**  
**Groundwater Extraction - Mass Removal Data**  
 Shell-Branded Service Station, Accident #97464711

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	<u>TPH-G</u>			<u>Benzene</u>			<u>MTBE</u>		
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
07/31/03	MW-3	180	2,930	07/08/03	<10,000	0.00751	0.04842	<100	0.00008	0.00039	9,500	0.01427	0.09464
08/29/03	MW-3	180	3,110	07/08/03	<10,000	0.00751	0.05593	<100	0.00008	0.00047	9,500	0.01427	0.10891

**TABLE 1**  
**Groundwater Extraction - Mass Removal Data**  
 Shell-Branded Service Station, Accident #97464711

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-G			Benzene			MTBE				
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)		
09/22/03	MW-3	126	3,236	07/08/03	<10,000	0.00526	0.06119	<100	0.00005	0.00052	9,500	0.00999	0.11890		
10/28/03	MW-3	123	3,359	10/03/03	<10,000	0.00511	0.06630	<100	0.00005	0.00057	8,800	0.00900	0.12789		
11/24/03	MW-3	153	3,512	10/03/03	<10,000	0.00638	0.07268	<100	0.00006	0.00064	8,800	0.01123	0.13913		
12/29/03	MW-3	107	3,619	10/03/03	<10,000	0.00446	0.07714	<100	0.00004	0.00068	8,800	0.00786	0.14699		
09/02/04	MW-3	30	3,649	09/02/04	<1,300	0.00016	0.07731	<1,300	0.00016	0.00084	2,000	0.00050	0.14749		
09/03/04	MW-3	220	3,869	09/03/04	<1,300	0.00119	0.07850	<1,300	0.00119	0.00204	2,600	0.00477	0.15226		
09/07/04	MW-3	2,050	5,919	09/07/04	<1,000	0.00855	0.08705	<1,000	0.00855	0.01059	2,600	0.04448	0.19674		
09/10/04	MW-3	200	6,119	09/10/04	<1,000	0.00083	0.08789	<1,000	0.00083	0.01143	3,600	0.00601	0.20274		
<b>Total Gallons Extracted:</b>				<b>9,069</b>	<b>Total Pounds Removed:</b>			<b>0.117</b>	<b>Total Pounds Removed:</b>			<b>0.0117</b>	<b>Total Pounds Removed:</b>		<b>0.274</b>
<b>Total Gallons Extracted This Reporting Period:</b>				<b>2,950</b>	<b>Total Gallons Removed:</b>			<b>0.019</b>	<b>Total Gallons Removed:</b>			<b>0.00161</b>	<b>Total Gallons Removed:</b>		<b>0.044</b>

**Abbreviations and Notes:**

TPH-G = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

ppb = Parts per billion, equivalent to micrograms per liter (ug/l)

gal = Gallon

Mass removed based on the formula: volume extracted (gal) x Concentration (mg/L) x (g/10<sup>6</sup>mg) x (pound/453.6g) x (3.785 L/gal)

Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)

TPH-G, benzene analyzed by EPA Method 8015/8020

Concentrations based on most recent groundwater monitoring results

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

For combined well numbers, the average concentration was used assuming 1/2 the detection limit for samples less than the detection limit



**TABLE 1**  
**Groundwater Extraction - Mass Removal Data**  
 Shell-Branded Service Station, Incident #97464711  
 6750 Santa Rita Rd, Pleasanton, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-G			Benzene			MTBE		
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)
07/30/04	MW-1	5	5	07/30/04	<1,000	0.00002	0.00002	<10	0.00000	0.00000	1,400	0.00006	0.00006
08/02/04	MW-1	120	125	08/02/04	<500	0.00025	0.00027	<5.0	0.00000	0.00000	840	0.00084	0.00090
08/05/04	MW-1	50	175	08/05/04	<500	0.00010	0.00038	<5.0	0.00000	0.00000	770	0.00032	0.00122
08/11/04	MW-1	105	280	08/11/04	<500	0.00022	0.00059	<5.0	0.00000	0.00001	770	0.00067	0.00190
05/19/03	MW-2/MW-3	67	347	05/09/03	6,125	0.00342	0.00402	<75	0.00002	0.00003	9,500	0.00531	0.00721
05/31/03	MW-2/MW-3	38	385	05/09/03	6,125	0.00194	0.00596	<75	0.00001	0.00004	9,500	0.00301	0.01022
06/13/03	MW-2/MW-3	58	443	05/09/03	6,125	0.00296	0.00893	<75	0.00002	0.00006	9,500	0.00460	0.01482
06/26/03	MW-2/MW-3	48	491	05/09/03	6,125	0.00245	0.01138	<75	0.00002	0.00007	9,500	0.00381	0.01862
06/30/03	MW-2	20	511	05/09/03	<2,500	0.00021	0.01159	<25	0.00000	0.00007	4,000	0.00067	0.01929
07/31/03	MW-2	60	571	07/08/03	<2,000	0.00050	0.01209	<20	0.00001	0.00008	2,800	0.00140	0.02069
08/29/03	MW-2	25	596	07/08/03	<2,000	0.00021	0.01230	<20	0.00000	0.00008	2,800	0.00058	0.02128
09/22/03	MW-2	25	621	07/08/03	<2,000	0.00021	0.01251	<20	0.00000	0.00008	2,800	0.00058	0.02186
10/28/03	MW-2	45	666	10/03/03	<2,000	0.00038	0.01288	<20	0.00000	0.00009	3,600	0.00135	0.02321
11/24/03	MW-2	21	687	10/03/03	<2,000	0.00018	0.01306	<20	0.00000	0.00009	3,600	0.00063	0.02384
12/29/03	MW-2	43	730	10/03/03	<2,000	0.00036	0.01341	<20	0.00000	0.00009	3,600	0.00129	0.02513
07/20/04	MW-2	25	755	07/20/04	<2,500	0.00026	0.01368	<25	0.00000	0.00009	3,500	0.00073	0.02586
07/23/04	MW-2	575	1,330	07/23/04	<2,500	0.00600	0.01967	<25	0.00006	0.00015	3,300	0.01583	0.04170
07/27/04	MW-2	700	2,030	07/27/04	<2,500	0.00730	0.02697	<25	0.00007	0.00023	2,800	0.01635	0.05805
07/30/04	MW-2	625	2,655	07/30/04	<2,000	0.00522	0.03219	<20	0.00005	0.00028	2,000	0.01043	0.06848
01/20/05	MW-2	421	3,076	01/18/05	<2,500	0.00439	0.03658	<25	0.00004	0.00032	5,200	0.01827	0.08675
01/21/05	MW-2	164	3,240	01/18/05	<2,500	0.00171	0.03829	<25	0.00002	0.00034	5,200	0.00712	0.09387
01/24/05	MW-2	554	3,794	01/18/05	<2,500	0.00578	0.04407	<25	0.00006	0.00040	5,200	0.02404	0.11790
01/26/05	MW-2	377	4,171	01/26/05	<1,300	0.00204	0.04611	<25	0.00004	0.00044	2,100	0.00661	0.12451
01/31/05	MW-2	1,434	5,605	01/31/05	<2,500	0.01496	0.06107	<25	0.00015	0.00059	1,300	0.01556	0.14007
<b>09/26/05</b>	<b>MW-2</b>	<b>50</b>	<b>5,655</b>	<b>09/26/05</b>	<b>&lt;1000</b>	<b>0.00021</b>	<b>0.06128</b>	<b>&lt;10</b>	<b>0.00000</b>	<b>0.00059</b>	<b>2,600</b>	<b>0.00108</b>	<b>0.14115</b>
<b>09/28/05</b>	<b>MW-2</b>	<b>88</b>	<b>5,743</b>	<b>09/26/05</b>	<b>&lt;1000</b>	<b>0.00037</b>	<b>0.06165</b>	<b>&lt;10</b>	<b>0.00000</b>	<b>0.00059</b>	<b>2,600</b>	<b>0.00191</b>	<b>0.14306</b>
<b>09/30/05</b>	<b>MW-2</b>	<b>150</b>	<b>5,893</b>	<b>09/26/05</b>	<b>&lt;1000</b>	<b>0.00063</b>	<b>0.06227</b>	<b>&lt;10</b>	<b>0.00001</b>	<b>0.00060</b>	<b>2,600</b>	<b>0.00325</b>	<b>0.14631</b>
<b>10/03/05</b>	<b>MW-2</b>	<b>187</b>	<b>6,080</b>	<b>10/03/05</b>	<b>&lt;1000</b>	<b>0.00078</b>	<b>0.06305</b>	<b>&lt;10</b>	<b>0.00001</b>	<b>0.00061</b>	<b>1,800</b>	<b>0.00281</b>	<b>0.14912</b>
<b>10/05/05</b>	<b>MW-2</b>	<b>393</b>	<b>6,473</b>	<b>10/03/05</b>	<b>&lt;1000</b>	<b>0.00164</b>	<b>0.06469</b>	<b>&lt;10</b>	<b>0.00002</b>	<b>0.00062</b>	<b>1,800</b>	<b>0.00590</b>	<b>0.15503</b>
<b>10/07/05</b>	<b>MW-2</b>	<b>250</b>	<b>6,723</b>	<b>10/07/05</b>	<b>&lt;500</b>	<b>0.00052</b>	<b>0.06521</b>	<b>&lt;5</b>	<b>0.00001</b>	<b>0.00063</b>	<b>1,300</b>	<b>0.00271</b>	<b>0.15774</b>

**TABLE 1**  
**Groundwater Extraction - Mass Removal Data**  
 Shell-Branded Service Station, Incident #97464711  
 6750 Santa Rita Rd, Pleasanton, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	TPH-G			Benzene			MTBE				
					TPH-G Concentration (ppb)	TPH-G Removed (pounds)	TPH-G To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)		
06/30/03	MW-3	95	2,750	05/09/03	11,000	0.00872	0.04091	<100	0.00004	0.00032	15,000	0.01189	0.08037		
07/31/03	MW-3	180	2,930	07/08/03	<10,000	0.00751	0.04842	<100	0.00008	0.00039	9,500	0.01427	0.09464		
08/29/03	MW-3	180	3,110	07/08/03	<10,000	0.00751	0.05593	<100	0.00008	0.00047	9,500	0.01427	0.10891		
09/22/03	MW-3	126	3,236	07/08/03	<10,000	0.00526	0.06119	<100	0.00005	0.00052	9,500	0.00999	0.11890		
10/28/03	MW-3	123	3,359	10/03/03	<10,000	0.00511	0.06630	<100	0.00005	0.00057	8,800	0.00900	0.12789		
11/24/03	MW-3	153	3,512	10/03/03	<10,000	0.00638	0.07268	<100	0.00006	0.00064	8,800	0.01123	0.13913		
12/29/03	MW-3	107	3,619	10/03/03	<10,000	0.00446	0.07714	<100	0.00004	0.00068	8,800	0.00786	0.14699		
09/02/04	MW-3	30	3,649	09/02/04	<1,300	0.00016	0.07731	<1,300	0.00016	0.00084	2,000	0.00050	0.14749		
09/03/04	MW-3	220	3,869	09/03/04	<1,300	0.00119	0.07850	<1,300	0.00119	0.00204	2,600	0.00477	0.15226		
09/07/04	MW-3	2,050	5,919	09/07/04	<1,000	0.00855	0.08705	<1,000	0.00855	0.01059	2,600	0.04448	0.19674		
09/10/04	MW-3	200	6,119	09/10/04	<1,000	0.00083	0.08789	<1,000	0.00083	0.01143	3,600	0.00601	0.20274		
<b>Total Gallons Extracted:</b>				<b>10,187</b>	<b>Total Pounds Removed:</b>			<b>0.121</b>	<b>Total Pounds Removed:</b>			<b>0.0118</b>	<b>Total Pounds Removed:</b>		<b>0.292</b>
<b>Total Gallons Extracted This Reporting Period:</b>				<b>1,118</b>	<b>Total Gallons Removed:</b>			<b>0.020</b>	<b>Total Gallons Removed:</b>			<b>0.00161</b>	<b>Total Gallons Removed:</b>		<b>0.047</b>

**Abbreviations and Notes:**

TPH-G = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

ppb = Parts per billion, equivalent to micrograms per liter (ug/l)

gal = Gallon

Mass removed based on the formula: volume extracted (gal) x Concentration (mg/L) x (g/10<sup>6</sup>mg) x (pound/453.6g) x (3.785 L/gal)

Volume removal data based on the formula: density (in gms/cc) x 9.339 (cc/lbs/gmsxgals)

TPH-G, benzene analyzed by EPA Method 8015/8020

Concentrations based on most recent groundwater monitoring results

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

For combined well numbers, the average concentration was used assuming 1/2 the detection limit for samples less than the detection limit.

**Table 1**  
**Summary of Groundwater Data**  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California

**Summary of Grab Groundwater Sampling**  
Shell-Branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Sample Designation	Date Sampled	TPH-g (ug/l)	TPH-d (ug/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylene (ug/l)	MTBE (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TAME (ug/l)	TBA (ug/l)	1,2-DCA (ug/l)
<b>Tank Pit Samples</b>													
T-2P-W	11/6/2002	7,300	55,000	210	1,100	81	900	11,000	NA	NA	NA	NA	NA
TP-W	11/6/2002	9,300	840	270	1,800	130	1,100	8,000	NA	NA	NA	NA	NA
<b>CPT Borings</b>													
CPT-1 @ 56	12/18/2003	<50	130*	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	NA
CPT-1 @ 70	12/18/2003	<50	300*	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	NA
CPT-2 @ 47	12/19/2003	<50	90*	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	NA
CPT-2 @ 80	12/19/2003	<50	<260	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	NA
CPT-2 @ 98	12/19/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	NA
CPT-3 @ 46	12/18/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	NA
CPT-3 @ 72	12/18/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	NA
CPT-3 @ 97	12/19/2003	<50	73*	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	NA
<b>Geoprobe Borings</b>													
B-1	11/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	<0.50
B-4	11/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	0.6	<2.0	<2.0	<2.0	<5.0	<0.50
B-7	11/15/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	140	<2.0	<2.0	<2.0	12	<0.50
B-11	11/14/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	4.5	<2.0	<2.0	<2.0	<5.0	<0.50

**Notes:**

All analysis performed by EPA Method 8260B, except TPH-D by EPA Method 8015

ug/l = micrograms per liter

TPH-G = Total petroleum hydrocarbons as gasoline

TPH-D = Total petroleum hydrocarbon as diesel

MTBE = Methyl tert-butyl ether

DIPE = Diisopropyl ether

**\*Hydrocarbon reported is in the early diesel range, and does not match the laboratory's diesel standard**

ETBE = Ethyl-t-butyl ether

TAME = Tert-amyl methyl ether

TBA = Tert-Butanol

1,2-DCA = 1,2-dichloroethane

TOC = Top of Well Casing

NM = Not measured

NA = Not analyzed

**Table 1**  
**Summary of Soil Analytical Data**  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California

**Summary of Soil Analytical Data**  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Sample Designation	Date Sampled	Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
<b>Well Installation</b>																
MW-2 20'	10/08/02	20	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-3 20'	10/09/02	20	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
<b>Tank Pit Samples</b>																
T-1DP	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.010	<b>0.9</b>	<0.5	<0.5	<0.5	<b>1.0</b>	NA	NA	NA
T-1DF	11/6/2002	14	NA	<1.0	<0.005	<b>0.0065</b>	<0.005	<b>0.0050</b>	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
T-2P	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>2.5</b>	<0.5	<0.5	<0.5	<0.5	<b>6.1</b>	NA	NA
T-2F	11/6/2002	14	NA	<1.0	<b>0.016</b>	<b>0.031</b>	<0.005	<0.005	<b>1.0</b>	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
T-3P	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>2.5</b>	<0.5	<0.5	<0.5	<0.5	<b>4.6</b>	NA	NA
T-3F	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>1.5</b>	<0.5	<0.5	<0.5	<0.5	<b>1.7</b>	NA	NA
T-4P	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>1.4</b>	<0.5	<0.5	<0.5	<0.5	<b>3.0</b>	NA	NA
T-4F	11/6/2002	14	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.6</b>	<0.5	<0.5	<0.5	<0.5	<b>0.9</b>	NA	NA
<b>Dispenser Samples</b>																
D-1 @ 3'	11/15/2002	3	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-2 @ 5'	11/15/2002	5	<b>7.1*</b>	<b>10</b>	<0.005	<0.005	<0.005	<b>0.52</b>	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-3 @ 4'	11/15/2002	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-4 @ 4'	11/15/2002	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-5 @ 5'	11/15/2002	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-6 @ 4.5'	11/15/2002	4.5	<b>11</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-7 @ 4.5'	11/15/2002	4.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-8 @ 3.5'	11/15/2002	3.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-9 @ 3.5'	11/15/2002	3.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
D-10 @ 4'	11/15/2002	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
<b>Piping Trench Samples</b>																
P-1 @ 3'	11/15/2002	3	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
P-2 @ 3'	11/15/2002	3	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
P-3 @ 5'	11/15/2002	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
P-4 @ 4.5'	11/15/2002	4.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
P-5 @ 5.5'	11/15/2002	5.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
P-6 @ 6.5'	11/15/2002	6.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.010	<b>0.9</b>	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
P-7 @ 6.5'	11/15/2002	6.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA

**Table 1**  
**Summary of Soil Analytical Data**  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California

Sample Designation	Date Sampled	Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)	
P-8 @ 7.5'	11/15/2002	7.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
P-9 @ 7'	11/15/2002	7	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
P-10 @ 5.5'	11/15/2002	5.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
P-11 @ 5.5'	11/15/2002	5.5	<b>18</b>	<1.0	<0.005	<0.005	<0.005	<0.010	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
P-12 @ 5'	11/15/2002	5	<b>1.8</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
P-13 @ 4'	11/15/2002	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
P-14 @ 3.5'	11/15/2002	3.5	<1.0	<1.0	<0.005	<0.005	<b>0.018</b>	<b>0.055</b>	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
P-15 @ 5.5'	11/15/2002	5.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
P-16 @ 5'	11/15/2002	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
<b>Geoprobe Boring Samples</b>																	
B-1@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>9.6</b>	
B-1@10'	11/14/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.3</b>	
B-1@15'	11/14/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.8</b>	
B-1@20'	11/14/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.7</b>	
B-1@25'	11/14/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.4</b>	
B-1@30'	11/14/2005	30	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>4.0</b>	
B-1@35'	11/14/2005	35	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>3.3</b>	
B-1@40'	11/14/2005	40	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.0</b>	
B-1@45'	11/14/2005	45	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.0065</b>	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>3.9</b>	
B-2@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>7.6</b>	
B-2@10'	11/16/2005	10	<b>86*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.5</b>	
B-2@15'	11/16/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.8</b>	
B-2@20'	11/16/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.068</b>	<0.01	<0.005	<0.005	<b>0.040</b>	<0.005	<0.005	<b>5.4</b>	
B-2@25'	11/16/2005	25	<b>1.3*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.063</b>	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.3</b>	
B-3@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.3</b>	
B-3@10'	11/15/2005	10	<b>7.3*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.3</b>	
B-3@15'	11/15/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.0</b>	
B-3@20'	11/15/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.9</b>	
B-3@25'	11/15/2005	25	<b>6.1*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.2</b>	
B-4@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>7.5</b>	
B-4@12'	11/14/2005	12	<b>2.9*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.4</b>	
B-4@15'	11/14/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.7</b>	
B-4@20'	11/14/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.8</b>	
B-4@25'	11/14/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.4</b>	
B-4@35'	11/14/2005	35	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.0062</b>	<b>0.27</b>	<0.01	<0.005	<0.005	<b>0.038</b>	<0.005	<0.005	<b>4.8</b>
B-4@40'	11/14/2005	40	<b>1.9*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<b>0.014</b>	<0.005	<0.005	<b>3.7</b>	
B-4@45'	11/14/2005	45	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.21</b>	<0.01	<0.005	<0.005	<b>0.076</b>	<0.005	<0.005	<b>4.6</b>	

**Table 1**  
**Summary of Soil Analytical Data**  
Shell Service Station  
6750 Santa Rita Road  
Pleasanton, California

Sample Designation	Date Sampled	Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
B-5@5'	11/11/2005	5	<b>2.1*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.7</b>
B-5@10'	11/16/2005	10	<b>2.7*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>7.4</b>
B-5@15'	11/16/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.8</b>
B-6@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.2</b>
B-6@10'	11/15/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.7</b>
B-6@15'	11/15/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.3</b>
B-7@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.4</b>
B-7@10'	11/15/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.1</b>
B-7@15'	11/15/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.1</b>
B-7@20'	11/15/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.5</b>
B-7@24.5'	11/15/2005	24.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.0</b>
B-7@30'	11/15/2005	30	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.5</b>
B-7@34'	11/15/2005	34	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.3</b>
B-7@40'	11/15/2005	40	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>4.3</b>
B-7@45'	11/15/2005	45	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>4.8</b>
B-8@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>4.9</b>
B-8@10'	11/15/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.8</b>
B-8@15'	11/15/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.4</b>
B-9@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>7.9</b>
B-9@10'	11/16/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.040</b>	<0.01	<0.005	<0.005	<b>0.011</b>	<0.005	<0.005	<b>6.9</b>
B-9@15'	11/16/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.12</b>	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>7.3</b>
B-10@5'	11/11/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.0051</b>	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.8</b>
B-10@10'	11/16/2005	10	<b>320*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.013</b>	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.1</b>
B-10@15'	11/16/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.0</b>
B-11@5'	11/11/2005	5	<b>1.9*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>8.7</b>
B-11@10'	11/14/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.3</b>
B-11@15'	11/14/2005	15	<b>1.6*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>6.9</b>
B-11@20'	11/14/2005	20	<b>4.3*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.4</b>
B-11@25'	11/14/2005	25	<b>2.1*</b>	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.5</b>
B-11@30'	11/14/2005	30	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.010	<0.005	<0.005	<b>5.7</b>
B-11@35'	11/14/2005	35	<1.0	<1.0	<0.005	<0.005	<0.005	<b>0.0062</b>	<b>0.27</b>	<0.01	<0.005	<0.005	<b>0.038</b>	<0.005	<0.005	<b>3.6</b>
B-11@40'	11/14/2005	40	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.20</b>	<0.01	<0.005	<0.005	<b>0.33</b>	<0.005	<0.005	<b>4.0</b>
B-11@45'	11/14/2005	45	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<b>0.22</b>	<0.01	<0.005	<0.005	<b>0.39</b>	<0.005	<0.005	<b>4.9</b>
RBSLs			NE	NE	0.045	2.5	2.6	1.0	0.028	NE	NE	NE	NE			

**Notes:**  
RBSL = Risk Based Screening Level components for soil set by the California Regional Water Quality Control Board  
All analysis performed by EPA Method 8260B  
mg/kg = milligrams per kilogram

**Table 1**  
**Summary of Soil Analytical Data**  
 Shell Service Station  
 6750 Santa Rita Road  
 Pleasanton, California

Sample Designation	Date Sampled	Depth (feet)	TPH-D (mg/kg)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
TPH-D = Total petroleum hydrocarbons as diesel TPH-G = Total petroleum hydrocarbons as gasoline MTBE = Methyl tert-butyl ether DIPE = Diisopropyl ether ETBE = Ethyl tert-butyl ether TAME = Tert-amyl methyl ether TBA = Tert-Butanol EDB = 1,2-dibromoethane 1,2-DCA = 1,2-dichloroethane NA = Not analyzed ND = Not detected NE = Not established * = Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample D-2@5'.																



**Mid Coast Engineers**  
**Civil Engineers and Land Surveyors**

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**Richard A. Wadsworth**  
Civil Engineer  
**Stanley O. Nielsen**  
Land Surveyor  
**Lee D. Vaage**  
Land Surveyor  
**Jeff S. Nielsen**  
Land Surveyor

November 25, 2002

Debbie Arnold  
KHM Environmental Management, Inc.  
6284 San Ignacio Avenue, Suite E  
San Jose, CA 95119

Re: **Shell-branded Service Station, 6750 Santa Rita Road, Pleasanton, California;** KHM  
Project C81-6750 Santa Rita, MCE Job No.02249

Dear Ms. Arnold,

As you requested, on November 22 we surveyed four monitoring wells located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the box (TOB).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points AA3813 (HPGN D CA 04 EK), AA3815 (HPGN D CA 04 FK) and HS5408 (HPGN CA 04 07), as published by NGS/NOAA and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 2, NAD 83 Datum. The accuracy range of the reported information is +/- 5mm. GPS equipment is the Trimble 5700 system (Code T57).

The benchmark used for this survey is Q 1257, a disk on the top of a copper coated rod, stamped "Q 1257 1974", at the junction of Santa Rita Road and Black Avenue, at the Amador Valley Community Park. Elevation = 341.578 feet, NGVD 29, as obtained from the City of Pleasanton Public Works Department.

Please let me know if you have questions or need additional information.

Yours truly,

  
Lee D. Vaage





**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

KHM Project C81-6750 Santa Rita

Project : 02249

User name MCE Date & Time 3:03:46 PM 11/25/2002  
Coordinate System US State Plane 1983 Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point listing

Name	Northing	Easting	Elevation	Description
203	2080122.02	6164807.87	343.44	MW-4toc
204	2080122.51	6164807.90	343.87	MW-4tob
205	2080126.72	6164884.05	342.23	MW-3toc
206	2080127.18	6164884.06	342.78	MW-3tob
207	2080231.92	6164896.94	342.86	MW-2toc
208	2080232.29	6164896.99	343.19	MW-2tob
210	2080231.41	6164837.85	343.48	MW-1toc
211	2080231.88	6164837.92	343.79	MW-1tob

**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

KHM Project C81-6750 Santa Rita

Project : 02249

User name MCE Date & Time 3:03:46 PM 11/25/2002  
Coordinate System US State Plane 1983 Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point listing

Name	Latitude	Longitude	Elevation	Description
203	37.699630258°N	121.871769391°W	343.44	MW-4toc
204	37.699631614°N	121.871769317°W	343.87	MW-4tob
205	37.699646248°N	121.871506370°W	342.23	MW-3toc
206	37.699647509°N	121.871506363°W	342.78	MW-3tob
207	37.699935644°N	121.871467122°W	342.86	MW-2toc
208	37.699936674°N	121.871466995°W	343.19	MW-2tob
210	37.699931853°N	121.871671319°W	343.48	MW-1toc
211	37.699933160°N	121.871671125°W	343.79	MW-1tob

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>SHELL-BRANDED SERVICE STATION</b>											
2	<b>6750 Santa Rita Road</b>											
3	<b>Pleasanton, California</b>											
4												
5	KHM Project C81-6750 Santa Rita											
6												
7	Project : 02249											
8	User name MCE Date & Time 3:03:46 PM 11/25/2002											
9	Coordinate System US State Plane 1983 Zone California Zone 3 0403											
10	Project Datum NAD 1983 (Conus)											
11	Vertical Datum NGVD29											
12	Coordinate Units US survey feet											
13	Distance Units US survey feet											
14	Elevation Units US survey feet											
15												
16	MW-1	MW	11/22/2002	37.6999319	-121.8716713	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing	
17	MW-2	MW	11/22/2002	37.6999356	-121.8714671	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing	
18	MW-3	MW	11/22/2002	37.6996462	-121.8715064	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing	
19	MW-4	MW	11/22/2002	37.6996303	-121.8717694	CGPS	NAD83	0.05	Mid Coast Engineers	T57	top of casing	

	A	B	C	D	E	F	G	H	I	J
1	<b>SHELL-BRANDED SERVICE STATION</b>									
2	<b>6750 Santa Rita Road</b>									
3	<b>Pleasanton, California</b>									
4										
5	KHM Project C81-6750 Santa Rita									
6										
7	Project : 02249									
8	User name MCE Date & Time 3:03:46 PM 11/25/2002									
9	Coordinate System US State Plane 1983 Zone California Zone 3 0403									
10	Project Datum NAD 1983 (Conus)									
11	Vertical Datum NGVD29									
12	Coordinate Units US survey feet									
13	Distance Units US survey feet									
14	Elevation Units US survey feet									
15										
16	MW-1	11/22/2002	343.48	CGPS	29		Mid Coast Engineers			top of casing
17	MW-2	11/22/2002	342.86	CGPS	29		Mid Coast Engineers			top of casing
18	MW-3	11/22/2002	342.23	CGPS	29		Mid Coast Engineers			top of casing
19	MW-4	11/22/2002	343.44	CGPS	29		Mid Coast Engineers			top of casing



## Mid Coast Engineers

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Lee D. Vaage  
Land Surveyor

Jeff S. Nielsen  
Land Surveyor

February 2, 2005

Rebecca Wolff  
Delta Environmental Consultants, Inc.  
175 Bernal Road, Suite 200  
San Jose, CA 95119

Re: **Shell-branded Service Station, 6750 Santa Rita Road, Pleasanton, California; DELTA**  
Project No. SJ67-505-1, MCE Job No.02249X

Dear Ms. Wolff,

As you requested, on January 31 we surveyed one additional monitoring well located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude, and are consistent with our previous survey of November 22, 2002.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the box (TOB).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points AA3813 (HPGN D CA 04 EK), AA3815 (HPGN D CA 04 FK) and HS5408 (HPGN CA 04 07), as published by NGS/NOAA and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 2, NAD 83 Datum. The accuracy range of the reported information is +/- 1cm. GPS equipment is the Trimble 5700/5800 system (Code T57/T58).

The benchmark used for this survey is Q 1257, a disk on the top of a copper coated rod, stamped "Q 1257 1974", at the junction of Santa Rita Road and Black Avenue, at the Amador Valley Community Park. Elevation = 341.578 feet, NGVD 29, as obtained from the City of Pleasanton Public Works Department.

Please let me know if you have questions or need additional information.

Yours truly,

Lee D. Vaage



<b>SHELL BRANDED SERVICE STATION</b>									
<b>6750 Santa Rita Road</b>									
<b>Pleasanton, California</b>									
<b>DELTA Project No. SJ67-505-1</b>									
Project : 02249X									
User name		MCE		Date & Time		10:56:02 AM 2/2/2005			
Coordinate System		US State Plane 1983		Zone		California Zone 3 0403			
Project Datum		NAD 1983 (Conus)							
Vertical Datum		NGVD29							
Coordinate Units		US survey feet							
Distance Units		US survey feet							
Elevation Units		US survey feet							
	MW-5	01/31/2005	340.88	CGPS	29	0.5		Mid Coast Engineers	top of casing

**SHELL BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

**DELTA Project No. SJ67-505-1**

Project : 02249X

User name MCE      Date & Time 10:56:02 AM 2/2/2005  
Coordinate System US State Plane 1983      Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point Number	Northing	Easting	Elevation	Description
212	2080035.73	6164819.32	340.88	MW-5toc
213	2080035.92	6164819.37	342.19	MW-5tob

	A	B	C	D	E	F	G	H	I	J	K	L
1	<b>SHELL BRANDED SERVICE STATION</b>											
2	6750 Santa Rita Road											
3	Pleasanton, California											
4												
5	<b>DELTA Project No. SJ67-505-1</b>											
6												
7	Project : 02249X											
8	User name MCE		Date & Time 10:56:02 AM 2/2/2005									
9	Coordinate System US State Plane 1983		Zone California Zone 3 0403									
10	Project Datum NAD 1983 (Conus)											
11	Vertical Datum NGVD29											
12	Coordinate Units US survey feet											
13	Distance Units US survey feet											
14	Elevation Units US survey feet											
15												
16		MW-5	MW	01/31/2005	37.6993938	-121.8717255	CGPS	NAD83	1	Mid Coast Engineers	T57/T58	top of casing



**SHELL BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

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User name MCE Date & Time 10:56:02 AM 2/2/2005 -  
Coordinate System US State Plane 1983 Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point Number	Latitude	Longitude	Elevation	Description
212	37.699393767°N	121.871725477°W	340.88	MW-5toc
213	37.699394278°N	121.871725291°W	342.19	MW-5tob



## Mid Coast Engineers

Civil Engineers and Land Surveyors

70 Penny Lane, Suite A - Watsonville, CA 95076  
phone: (831) 724-2580  
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Richard A. Wadsworth  
Civil Engineer

Stanley O. Nielsen  
Land Surveyor

Lee D. Vaage  
Land Surveyor

Jeff S. Nielsen  
Land Surveyor

December 20, 2005

Heather Buckingham  
Delta Environmental Consultants, Inc.  
175 Bernal Road, Suite 200  
San Jose, CA 95119

Re: **Shell-branded Service Station, 6750 Santa Rita Road, Pleasanton, California; DELTA**  
Project No. SJ67-505-1.2005, MCE Job No.02249X2

Dear Ms. Buckingham,

As you requested, on December 19 we surveyed two additional monitoring wells located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude, and are consistent with our previous surveys of November 22, 2002 and January 31, 2005.

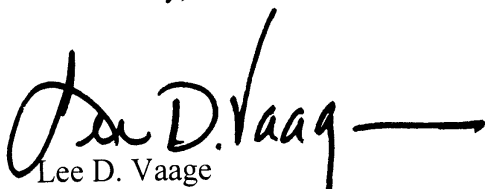
A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the box (TOB).

Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS), using control points AA3813 (HPGN D CA 04 EK), AA3815 (HPGN D CA 04 FK) and HS5408 (HPGN CA 04 07), as published by NGS/NOAA and listed on their web site. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 2, NAD 83 Datum. The accuracy range of the reported information is +/- 1cm. GPS equipment is the Trimble 5700/5800 system (Code T57/T58).

The benchmark used for this survey is Q 1257, a disk on the top of a copper coated rod, stamped "Q 1257 1974", at the junction of Santa Rita Road and Black Avenue, at the Amador Valley Community Park. Elevation = 341.578 feet, NGVD 29, as obtained from the City of Pleasanton Public Works Department.

Please let me know if you have questions or need additional information.

Yours truly,

  
Lee D. Vaage



**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

**DELTA Project No. SJ67-505-1.2005**

Project : 02249X2

User name MCE Date & Time 11:09:47 AM 12/20/2005  
Coordinate System US State Plane 1983 Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point Number	Northing	Easting	Elevation	Description
214	2080038.47	6164777.48	342.97	MW-6toc
215	2080038.76	6164777.64	343.30	MW-6tob
216	2080008.80	6164862.24	341.21	MW-7toc
217	2080009.03	6164862.63	341.51	MW-7tob

**SHELL-BRANDED SERVICE STATION**  
**6750 Santa Rita Road**  
**Pleasanton, California**

**DELTA Project No. SJ67-505-1.2005**

Project : 02249X2

User name MCE Date & Time 11:09:47 AM 12/20/2005  
Coordinate System US State Plane 1983 Zone California Zone 3 0403  
Project Datum NAD 1983 (Conus)  
Vertical Datum NGVD29  
Coordinate Units US survey feet  
Distance Units US survey feet  
Elevation Units US survey feet

Point Number	Latitude	Longitude	Elevation	Description
214	37.699399616°N	121.871870203°W	342.97	MW-6toc
215	37.699400407°N	121.871869658°W	343.30	MW-6tob
216	37.699321538°N	121.871575761°W	341.21	MW-7toc
217	37.699322199°N	121.871574419°W	341.51	MW-7tob

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10	Project Datum NAD 1983 (Conus)											
11	Vertical Datum NGVD29											
12	Coordinate Units US survey feet											
13	Distance Units US survey feet											
14	Elevation Units US survey feet											
15												
16	MW-6	MW	12/19/2005	37.6993996	-121.8718702	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing	
17	MW-7	MW	12/19/2005	37.6993215	-121.8715758	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing	

	A	B	C	D	E	F	G	H	I	J	K
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9	Coordinate System	US State Plane 1983		Zone	California Zone 3 0403						
10	Project Datum	NAD 1983 (Conus)									
11	Vertical Datum	NGVD29									
12	Coordinate Units	US survey feet									
13	Distance Units	US survey feet									
14	Elevation Units	US survey feet									
15											
16	MW-6	12/19/2005	342.97	CGPS	29	0.5	Mid Coast Engineers			top of casing	
17	MW-7	12/19/2005	341.21	CGPS	29	0.5	Mid Coast Engineers			top of casing	