



APR 20 2005
POST OFFICE
DENVER, CO 80202

April 19, 2005

Re: **Shell-branded Service Station**
5251 Hopyard Road
Pleasanton, California

Dear Mr. Bob Schultz:

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

Sincerely,
Shell Oil Products US

Denis L. Brown
Sr. Environmental Engineer

70-194



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April 19, 2005
Project SJ5251-1.2005

Mr. Robert Schultz
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**Re: First Quarter 2005 Groundwater
Monitoring Report and Work Plan
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, California**

Dear Mr. Schultz,

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared this first quarter 2005 groundwater monitoring report and work plan for a soil and groundwater investigation at the site referenced above (Figure 1). In a letter dated January 24, 2005, the Alameda County Health Care Services Agency (ACHCSA) requested that Shell provide a work plan for a soil and groundwater investigation.

BACKGROUND

The subject property is located on the southeast corner of the intersection of Owens Drive and Hopyard Road in Pleasanton, California (Figure 2). The property is currently the site of an active Shell-branded service station.

The Shell service station has four 10,000-gallon gasoline underground storage tanks (USTs), four fuel dispenser islands under a single canopy, a carwash, and a food mart building (Figure 2). The site is located in an area characterized as commercial.

Groundwater Monitoring

Groundwater monitoring has been performed at the site since December 1988. Depth to groundwater in site groundwater monitoring wells has ranged between 5 to 11 feet below top of casing (TOC). Petroleum hydrocarbons have primarily been detected in Well S-1 located in the central portion of the site and Well S-3 located along in the western or down gradient portion of the site (Figure 2). Groundwater monitoring has been performed on an annual basis since May 1995 due to declining concentrations of petroleum hydrocarbons. Since May 1995, total petroleum hydrocarbons as gasoline (TPH-G) have been detected in Well S-1 at concentrations ranging from 500 micrograms per liter (ug/l) to 4,800 ug/l. TPH-G concentrations were initially as high as 13,000 ug/l (October 1992). Since 1995, TPH-G has been detected in Well S-3 at concentrations ranging from 61 ug/l to 2,200 ug/l.

Methyl tert butyl ether (MTBE) has been detected in monitoring wells across the site. The highest concentration of MTBE was detected in Well S-1 at 2,900 ug/l in May 1997. MTBE concentrations have declined by an order of magnitude since historic highs in 1997. Analyses for all five fuel oxygenates was performed in May 2004. Tert-butyl alcohol (TBA) was detected in the May 2004 sample from Well S-1 at 1,600 ug/l. Tert-amyl methyl ether (TAME) was detected in the sample from Well S-7 at 6.8 ug/l. Groundwater monitoring frequency has voluntarily been changed to quarterly starting in the first quarter 2005. Results of the first quarter 2005 monitoring event are described within this report.

Dispenser and Piping Replacement Soil Sampling

In September 2004, Toxichem Management Systems, Inc. (Toxichem) performed soil sampling related to site fuel dispensers and product piping replacement. During the uncovering of product piping, the rupture of a line near the center of the site resulted in the release of a small quantity of gasoline. Free product was observed in the area of soil sample location DSV-9 (see Toxichem map in Attachment A). Toxichem reported that the gasoline release was contained within the bottom and sides of the product line trench excavated into clay soil. Groundwater was also encountered within the product line trench.

Soil from beneath the area of the gasoline release was subsequently removed. Soil along an approximately 50-foot length of the trench was removed to depths ranging from 4 feet to 10 feet below grade (bg) – see Figure 3. The soil encountered during the over excavation was described as gray clay. Toxichem reported that no groundwater entered the trench excavation during soil removal activities. The maximum concentration of MTBE and TBA detected in soil samples from the base of the over excavation were 0.20 milligrams per kilogram (mg/kg) and 0.22 mg/kg, respectively. A summary of soil analytical data is provided in Attachment A.

Groundwater Extraction

During UST upgrades in October 2004, periodic dewatering was performed by pumping groundwater out of the 12-inch diameter tank backfill well. Approximately 33,749 gallons of groundwater was pumped from the tank backfill between October 1 and October 27, 2004. Extracted groundwater was transported to the Shell refinery in Martinez, California for disposal.

UST Tightness Test Failure

On November 20, 2004, one of the fuel UST's failed a tightness test. The fuel was removed from the tank to allow inspection and repairs. Shell submitted an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report to the Livermore-Pleasanton Fire Department and California Regional Water Quality Control Board, San Francisco Bay Region dated November 22, 2004 (Attachment B). Release of gasoline was concluded to be averted due to high groundwater levels outside the UST.

HYDROGEOLOGIC CONDITIONS

The ACHCSA, in its letter dated January 24, 2005, requested that Shell perform a study of the regional geologic and hydrogeologic setting of the site. The following specific items were requested:

- a concise narrative discussion of the regional geologic and hydrogeologic setting;
- figure(s) summarizing findings;
- synthesis and interpretation of regional data with the site-specific data;
- references for documents used and;
- photocopies of regional geologic maps, groundwater contour maps, cross-sections, etc.

Geologic Setting

The site is located in the western portion of the Livermore Valley Groundwater Basin (see Basin 2-10, Groundwater Basins in California Map, Attachment C). A description of the Livermore Valley Groundwater Basin (Basin) is provided in California Department of Water Resources (DWR) Bulletin 118. The following are excerpts from Bulletin 118:

"The entire floor of Livermore Valley and portions of the upland areas on all sides of the valley overly groundwater-bearing materials. The materials are continental deposits from alluvial fans, outwash plains, and lakes. They include valley-fill materials, the Livermore Formation, and the Tassajara Formation."

"The Holocene age surficial valley-fill materials range in thickness from a few tens of feet to nearly 400 feet. They occur as stream channel deposits, alluvial fan deposits, and terrace deposits, and are composed of unconsolidated sand, gravel, silt, and clay. In the central and southern portions of the valley, 50 to 80 percent of the valley-fill is comprised of aquifer material that yields significant quantities of water to wells. Clay deposits up to 40 feet thick cap the valley-fill in the western portion of the Basin; where deep wells draw groundwater from underlying aquifer material."

The site is located in the western portion of the Basin and thus surficial deposits consist primarily of clay. Toxicchem performed a ½-mile radius well survey through the the California Department of Water Resources (DWR) and Alameda County Flood Control and Water Conservation District, Zone 7 (Zone 7). Well survey map and tables are provided as Attachment D. A total of five water supply wells were reported within ½-mile of the site. None of the five wells could be located during an inspection by Toxicchem of the reported sites. Two wells listed as abandoned or destroyed were reported in the site area. The nearest destroyed well was reportedly located at a distance of between 100 feet to 300 feet west of the site (see map in Attachment D).

Toxichem was able to obtain the boring logs for two of the five wells identified in the site area. The more detailed of the two logs indicated the presence of clay to a depth of 64 feet bg underlain by sand from 64 to 72 feet bg. Interlayered clay, sand, and gravel were encountered below 72 feet bg.

Borings for site monitoring wells encountered clay to the 30-foot total depth explored. Borings for all wells, except S-2 through S-5, are provided as Attachment E. Delta/Shell are attempting to access archived files to obtain the report containing the boring logs for Wells S-2 through S-5. Selected borings encountered scattered thin layers of silty and clayey sand within the clay deposits. Toxichem described the soils encountered in site excavations in September 2004 as clay.

Hydrogeologic Setting

Delta obtained regional hydrogeologic from the Zone 7. A schematic hydrogeologic cross-section was obtained from the Zone 7 website showing the shape of the Livermore Valley groundwater basin and depth to groundwater (see cross-section in Attachment C). DWR Bulletin 118 describes hydrogeologic conditions as:

“Under most conditions, the valley-fill and Livermore sediments yield adequate to large quantities of groundwater to all types of wells. The quality of water produced from these rocks range from poor to excellent, with most waters in the good to excellent range.”

A groundwater elevation contour map prepared by Zone 7 for the fall of 2003, is provided in Attachment C. The groundwater elevation contour map indicates that the groundwater flow direction in the uppermost water supply aquifer beneath the site area is to the south.

Groundwater was encountered in site borings within clay deposits. Depth to groundwater in site groundwater monitoring wells has ranged between 5 to 11 feet below top of casing (TOC) since 1991. In January 2005, depth to groundwater in monitoring wells ranged from 5.44 feet to 11.18 feet below TOC. The primary groundwater flow of the first encountered groundwater has primarily been to the northwest. A rose diagram of historic groundwater flow directions is provided on Figure 2. Groundwater flow to the north and northeast have also been recorded. The highest concentrations of MTBE in groundwater are currently detected in Wells S-2 and S-5 located in the northern and eastern portion of the site.

CONDUIT STUDY

The ACHCSA, in its letter dated January 24, 2005, requested that Shell perform a conduit study to include a map showing the location and depths of all sewers, storm drains, and other subsurface utilities within and near the plume area. Delta obtained utility maps from the City of Pleasanton for the areas adjacent to the site. These utility maps are included in Attachment F. An on-site utility survey was also conducted by Delta. The site map presented in Figure 3 includes approximate locations of on-site utilities.

After reviewing the locations of utility trenches on-site and in the streets adjacent to the site, it seems unlikely that utility trenches act as migration pathways for contaminants. Highest concentrations of TPH-G, benzene and MTBE are currently located in Well S-1 found in the center of the site, and in Wells S-2 and S-5 located north of the UST's and east of the dispensers, respectively. The majority of utility trenches are located south and west of the UST's and dispensers. If groundwater flow carried contaminants off-site and into utility trenches, a significant change in concentrations would be expected

between wells on-site and wells off-site beyond the trenches. Since groundwater concentrations on site are relatively low, averaging on the order of 200 ug/l, the change in groundwater concentration over distance cannot be attributed to the redirection of contaminants into utility trenches. Since the groundwater flow direction is generally towards the north, and the current maximum concentrations of MTBE are contained in wells in locations at the north and east on-site, Delta will focus its investigation in the area north of the dispensers and off-site to the east.

FIRST QUARTER 2005 GROUNDWATER MONITORING EVENT

Groundwater monitoring wells were gauged and sampled by Blaine on January 14, 2005. Depth to groundwater was measured in Wells S-1 through S-8. Depth to groundwater in wells ranged from 7.10 feet to 8.65 feet below TOC. Groundwater elevation data and contours are presented on Figure 2. The groundwater gradient on January 14, 2005 was towards the northwest at a magnitude of 0.02 ft/ft.

Groundwater samples were collected from Wells S-1 through S-8. Samples were submitted by Blaine to Severn Trent Laboratories, Inc. (STL) in Pleasanton, California for analysis for TPH-G, benzene, toluene, ethylbenzene, and xylene (BTEX compounds), and MTBE 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 G. Dissolved petroleum hydrocarbons (TPH-G and BTEX compounds) remained concentrated in Well S-1. TPH-G was detected in Well S-1 at 4,200 ug/l. In January 2005, the highest concentrations of MTBE were detected in Wells S-1 (100 ug/l), S-2 (270 ug/l), and S-5 (230 ug/l).

SITE CONCEPTUAL MODEL

The ACHCSA, in its letter dated January 24, 2005, requested that Shell submit a site conceptual model (SCM) as part of its work plan. The following are the key elements of the SCM:

- based on regional data and site soil borings, the site is anticipated to be underlain to a depth approximately 60 feet by clay;
- groundwater is first encountered within the clay deposits in the 10- to 20-foot depth interval, stabilizing in wells at depths of 5 to 11 feet bg;
- the shallow groundwater moves through rootholes and thin seams of clayey and silty sand scattered within the clay deposits;
- the lateral migration flow rate of shallow groundwater is limited due to the predominance of clay and fluctuating flow directions in the central portion of the site;
- the ability of permeable utility trench backfill to act as horizontal conduits for groundwater flow is uncertain;
- vertical migration of shallow groundwater is anticipated to be very limited due to clay in the 0- to 60-foot depth interval and the discontinuous nature of thin silty and clayey sand seams within the clay;
- the vertical flow direction is anticipated to be downward from shallow groundwater contained in clay deposits to underlying sand and gravel deposits;
- the abandoned/destroyed irrigation well, approximately 300 feet southwest of the site, is not anticipated to be acting as vertical conduit for migration of dissolved petroleum hydrocarbons,

MTBE and TBA due to primary flow directions to the northwest beneath the site away from the well;

- no other wells that could act as vertical conduits have been identified within the anticipated lateral extent of the dissolved petroleum hydrocarbons, MTBE, and TBA plume;
- dissolved petroleum hydrocarbons, MTBE, and TBA are anticipated to be primarily contained on-site in shallow groundwater due to the above described hydrogeologic conditions;
- MTBE and TBA are not anticipated to have moved into underlying sand and gravel and;
- TPH-G, MTBE, and TBA dissolved in groundwater will biodegrade over time.

WORK PLAN

The following tasks are proposed to 1) determine the deep hydrogeologic conditions beneath the site and 2) identify the lateral and vertical extent of petroleum hydrocarbons, MTBE, and TBA in soil and groundwater. All work will be performed at the direction and supervision of a California Certified Hydrogeologist.

TASK 1 – PREFIELD ACTIVITIES

Prior to drilling, Delta will mark the locations of all borings, contact Underground Services Alert 48 hours prior to drilling, obtain all required drill permits, arrange the drilling schedule, and mobilize drilling equipment and materials. In addition, a utility locator contractor will be retained to perform a geophysical survey of the proposed boring locations. Each location will be air-knifed to a depth of approximately five feet to minimize the possibility of drilling equipment encountering underground utilities. Delta will prepare a site-specific health and safety plan prior to initiating field activities. ACHCSA will be notified a minimum 72 hours prior to any field work.

TASK 2 – COLLECTION OF SOIL AND GROUNDWATER SAMPLES – PRODUCT PIPING AND DISPENSER AREA

Delta proposes to use direct push drilling equipment to sample soil and groundwater beneath the site at five locations (GP-1 through GP-5, Figure 3). The drilling equipment will be provided and operated by Gregg Drilling (License C57- 485165). GP-1 through GP-3 will be drilled along the alignment of the product piping trench exposed in September 2004 where a release of gasoline occurred during piping removal. Borings GP-4 and GP-5 will be located adjacent to dispensers D-1 and D-2, respectively. MTBE and TBA were detected in soil samples from beneath the two dispensers (see soil data, Attachment A).

Continuous soil samples will be collected from a depth of 5 feet to a total depth of 20 feet bg. Discrete soil samples will be retained in acetate liners at 5-foot intervals. Samples will be capped with Teflon tape and tight fitting end caps, and placed in a cooler with ice for transportation to STL in Pleasanton, California. A photo-ionization detector (PID) will be used to measure soil hydrocarbon concentrations at 5-foot intervals. The PID soil samples will be placed in a sealed plastic bag. After approximately 5-minutes, the PID probe will be inserted into the plastic bag and soil gas allowed to pass through the PID until readings stabilize. The resulting concentration reading will be recorded on the geologist's field log.

The field geologist will carefully examine the soil core samples as they are collected. Soils will be classified based on the Unified Soil Classification System using the American Society for Testing and Materials (ASTM) Method D-2487 published in May 2000. In addition to classifying the soils, the

geologist will examine the core for such features as root-holes, fractures, mineralization, and thin micro-bedding as well as petroleum hydrocarbon staining and odor.

Delta will attempt to obtain a water sample from each boring. Groundwater samples will be collected utilizing a stainless steel bailer lowered into the drill rods. Attempts will be made to collect a groundwater sample at the 10-, 15-, and 20-foot depths. If water can not be collected during the drilling process, temporary casings may be necessary to allow the borings to remain open long enough for water to enter the borehole and provide a sample sufficient for laboratory analysis. Groundwater samples will be collected from temporary casings using a stainless steel bailer. Groundwater will be decanted into laboratory provided 40-milliliter glass vials, and placed in a cooler with ice for transport to STL. Soil and groundwater samples will be logged on to a chain-of-custody form. Soil and groundwater samples will be analyzed for TPH-G, BTEX compounds, and fuel oxygenates MTBE, TBA, and TAME by EPA Method 8260B.

All down-hole drilling tools will be decontaminated between holes. The decontamination process will consist of multiple wash and rinse cycles. The first washing involves scrubbing all trace soil or contaminants from the drilling tools, then washing them with a non-phosphate detergent and water. Following the initial washing with detergent, the tools are then dip-rinsed and sprayed with water. A final rinse is performed using deionized water that is poured directly over the sampling tools, followed by placement into a clean container for air drying.

After collecting the soil and groundwater samples, each boring will be filled to the surface with a Portland cement/bentonite slurry mixture (5% bentonite).

TASK 3 – CONE PENETRATION TEST BORING

Delta proposes to collect depth discrete groundwater samples at three cone penetration test (CPT) locations (Figure 3). The CPT borings will define the types of soils underlying shallow groundwater currently being monitored beneath the site and to define the vertical of extent of petroleum hydrocarbons and fuel oxygenates detected in shallow groundwater. CPT-1 is located in the central portion of the site down gradient direction (west) of fuel USTs and dispensers. CPT-2 and CPT-3 are located north and east of the fuel USTs and dispensers. The highest concentrations of MTBE are detected in monitoring wells in the north and eastern portion of the site (Wells S-2 and S-5).

An initial CPT borehole (Figure 3) will be used for stratigraphic profiling. Boreholes will be drilled through clay deposits and approximately 20 feet into underlying sand and gravel deposits anticipated at a depth of approximately 60 feet bg. Soil classification will be based on the cone penetration resistance, sleeve friction, and friction ratio. A soil classification graph will be generated during drilling of the CPT borehole. Grout will be pumped into the borehole through the drilling rods upon completion.

A second CPT borehole will be drilled at the same location for collection of groundwater samples. Sand layers throughout the stratigraphic profile will be targeted for sampling. A sealed PVC hydropunch screen will be pushed to the desired sampling depth. The push rod will then be retracted exposing the hydropunch screen. Groundwater will flow hydrostatically from the formation into the sampler. A small diameter stainless steel bailer will be lowered through the hollow push rods, into the screen section for sample collection. The groundwater samples will be transferred to 40-milliliter glass VOA bottles. The bottles will be placed on ice for transportation to the laboratory.

After sample collection, the push rods will be removed from the hole. The rods will be steam cleaned and a new hydropunch screen installed. The sealed screen will then be advanced to the next sampling depth and the above described process repeated. After collection of the final groundwater sample, grout will be pumped through the push rods as they are extracted from the borehole. Groundwater samples will be analyzed for TPH-G, BTEX compounds, MTBE, TBA, and TAME by US EPA Method 8260B.

TASK 4 – SOIL AND GROUNDWATER INVESTIGATION REPORT

Delta will prepare a report describing field methods and summarizing the results of chemical analyses of soil and groundwater. The report will contain a boring and CPT location map, boring logs, CPT logs, hydrogeologic cross-sections with analytical soil data, certified analytical reports, and chain of custody documentation.

SCHEDULE

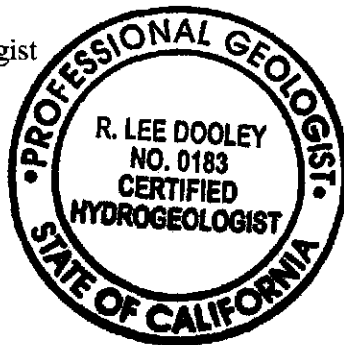
Delta is prepared to commence field activities within 30 days of the acceptance of this work plan by ACHCS

If you have any questions, please call me at (408) 224-4724.

Sincerely,
Delta Environmental Management, Inc.



R. Lee Dooley
Senior Hydrogeologist
CHG 183



cc. Denis Brown, Shell Oil Products US
Matt Katen, Zone 7 Water District

Attachments:

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map, January 14, 2005

Figure 3 – Benzene and MTBE Concentration Map, January 14, 2005

Attachment A – Dispenser and Piping Replacement Soil Sampling Map and Summary of Analytical Data – September 2004

Attachment B – Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report – November 22, 2004

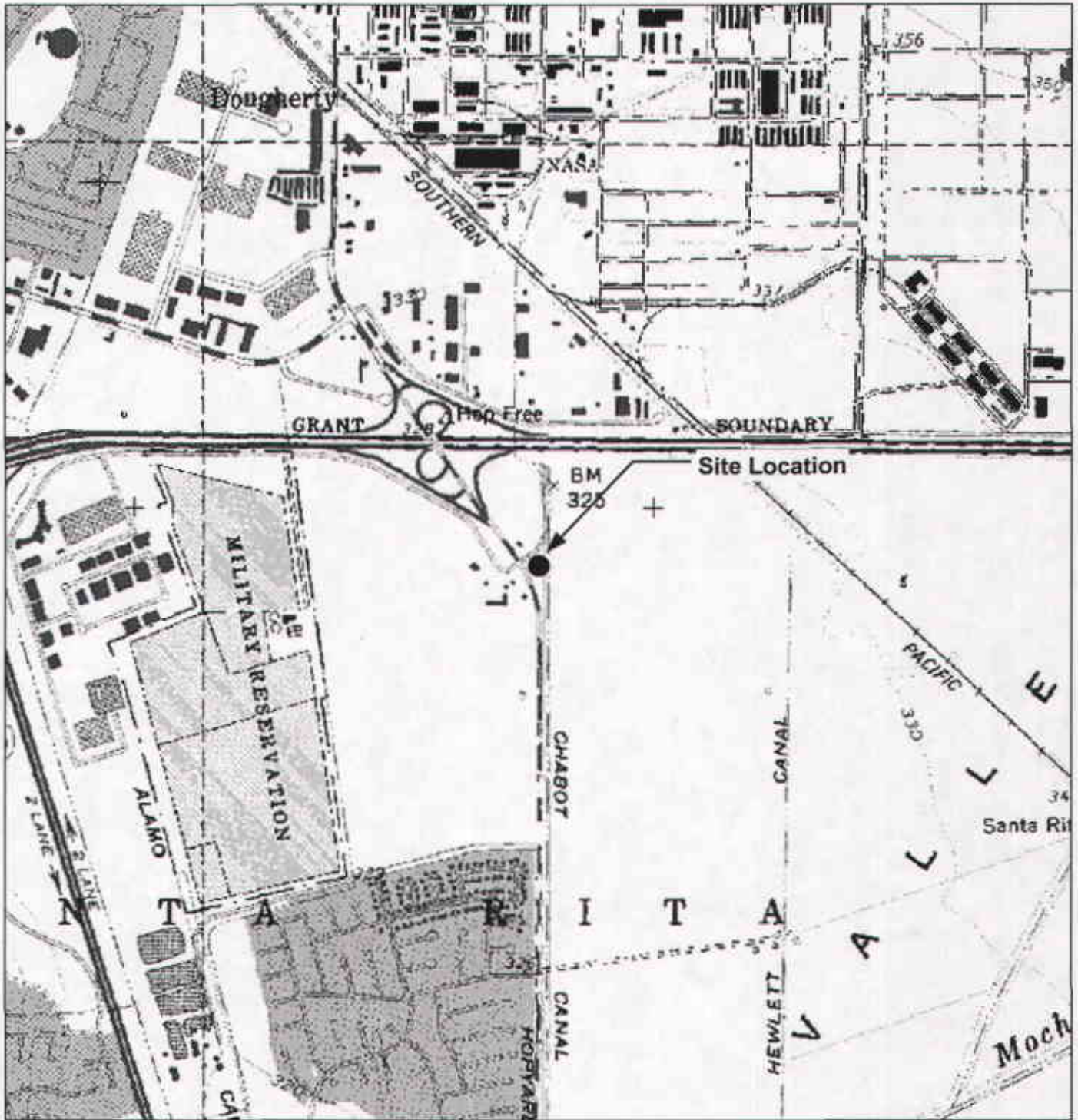
Attachment C – Regional Hydrogeologic Information

Attachment D – Well Survey Information

Attachment E – Site Boring Logs

Attachment F – Underground Utility Maps

Attachment G – Blaine Tech Services Monitoring Report, First Quarter 2005



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



QUADRANGLE LOCATION

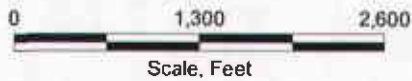


FIGURE 1
 SITE LOCATION MAP

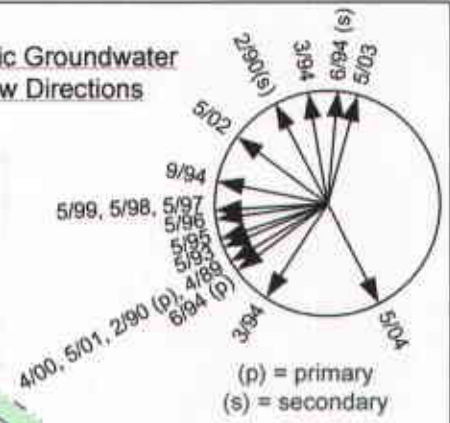
SHELL-BRANDED SERVICE STATION
 5251 Hopyard Road
 Pleasanton, California

PROJECT NO. SJ52-51H-1.2005	DRAWN BY V. F. 3/31/05
FILE NO. SJ52-51H-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY



North

Historic Groundwater Flow Directions



Parking

Food Mart

Car Wash

Dispensers (typ) Trash

Canopy

Former UST Complex

Former Dispenser Islands (typ)

Hopyard Road

Owens Drive

(318.59)
S-2

(319.00)
S-5

(319.04)
S-3

(319.07)
S-4

(316.39)
S-8

(318.97)
S-6

(318.66)
S-7

0.02 ft/ft

LEGEND



GROUNDWATER MONITORING WELL



SOIL VAPOR EXTRACTION WELL

(318.66)

GROUNDWATER ELEVATION (FEET-MSL), 1/14/05

319.00

GROUNDWATER ELEVATION CONTOUR

0.02 ft/ft

APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT

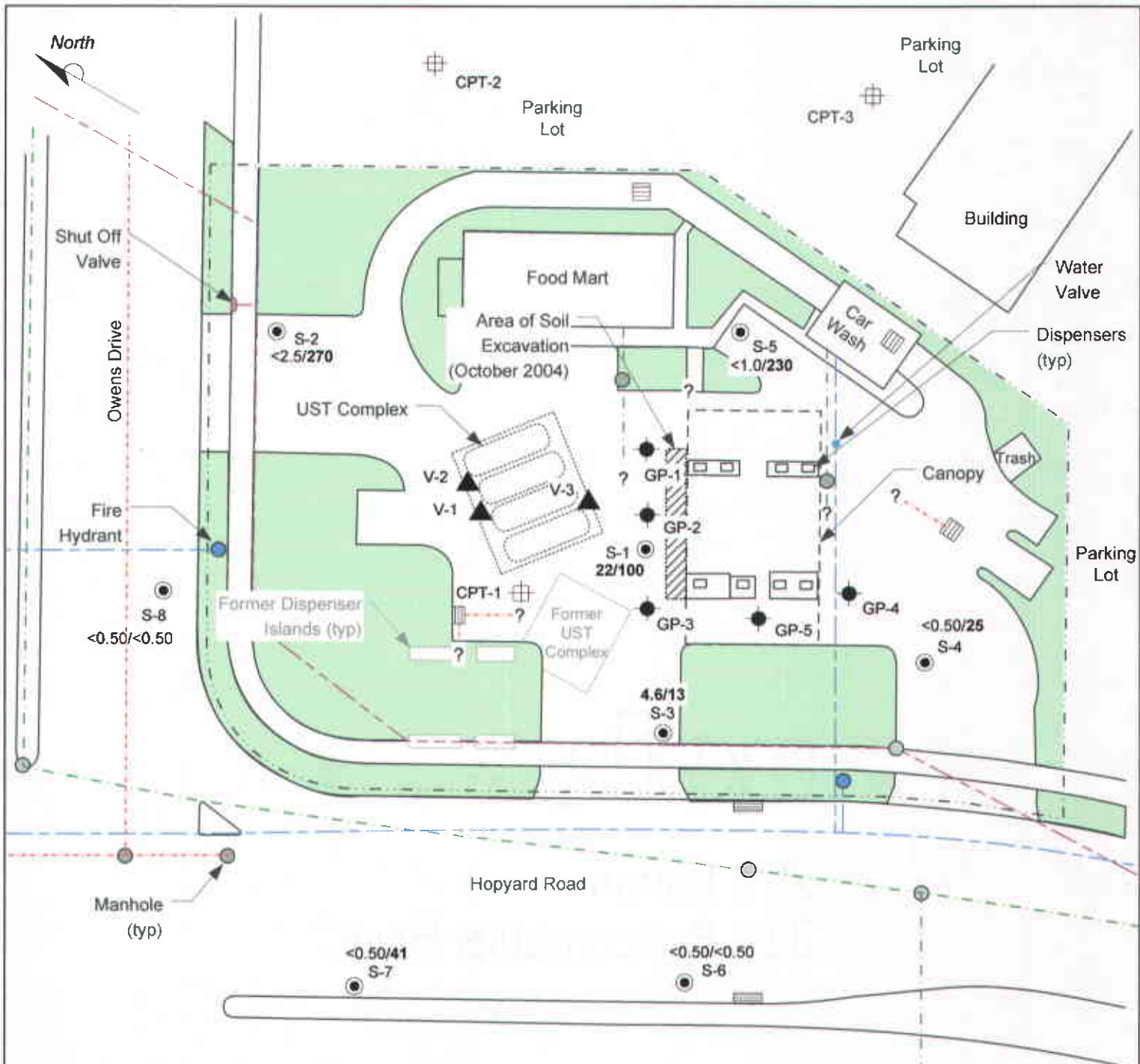


APPROX. SCALE

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP,
JANUARY 14, 2005
SHELL-BRANDED SERVICE STATION
5251 Hopyard Road
Pleasanton, California

PROJECT NO. SJ52-51H-1.2005	DRAWN BY V. F. 3/30/05
FILE NO. SJ52-51H-1.2005	PREPARED BY V.F.
REVISION NO. 2	REVIEWED BY





LEGEND

- S-1 ● **GROUNDWATER MONITORING WELL**
- V-3 ▲ **SOIL VAPOR EXTRACTION WELL**
- <math>< 0.50/< 0.50</math> **BENZENE/MTBE CONCENTRATIONS (UG/L), 1/14/05**
- GP-2 ● **PROPOSED SOIL BORING**
- CPT-1 ⊕ **PROPOSED CPT BORING AND SAMPLING LOCATION**
- **ZONE 7 WATER LINE**
- **WATER MAIN**
- **SEWER MAIN**
- **STORM DRAIN**



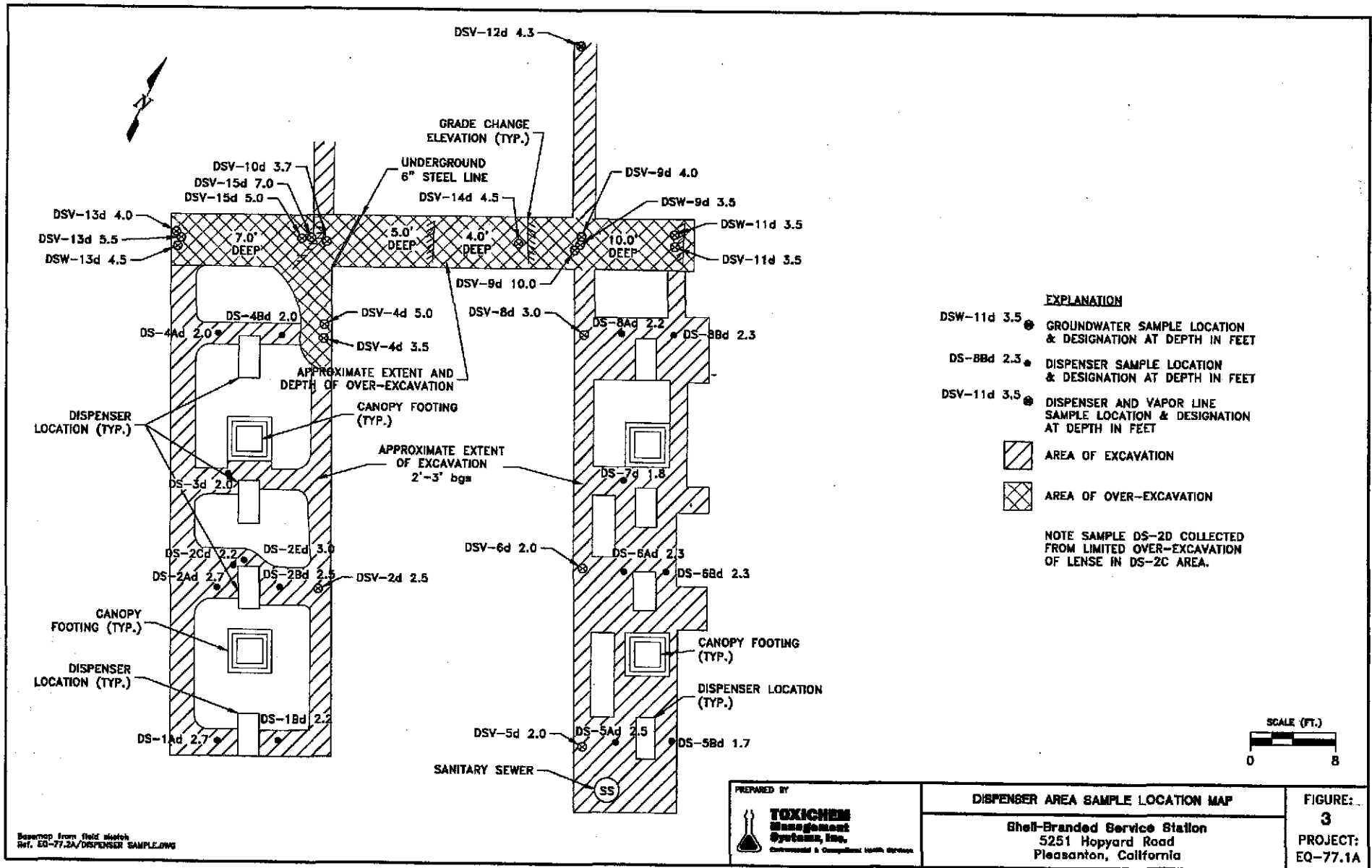
FIGURE 3
BENZENE AND MTBE CONCENTRATION MAP,
JANUARY 14, 2005
SHELL-BRANDED SERVICE STATION
5251 Hopyard Road
Pleasanton, California

PROJECT NO. SJ52-51H-1.2005	DRAWN BY V. F. 3/30/05
FILE NO. SJ52-51H-1.2005	PREPARED BY V.F.
REVISION NO. 2	REVIEWED BY

Delta
Environmental
Consultants, Inc

Attachment A

**DISPENSER AND PIPING REPLACEMENT SOIL SAMPLING MAP AND SUMMARY
OF ANALYTICAL DATA - SEPTEMBER 2004**



DSV-12d 4.3

GRADE CHANGE
ELEVATION (TYP.)

UNDERGROUND
6" STEEL LINE

DSV-10d 3.7

DSV-15d 7.0

DSV-15d 5.0

DSV-13d 4.0

DSV-13d 5.5

DSW-13d 4.5

7.0' DEEP

5.0' DEEP

4.0' DEEP

DSV-14d 4.5

DSV-9d 4.0

DSW-9d 3.5

DSW-11d 3.5

DSV-11d 3.5

DSV-9d 10.0

DS-4Ad 2.0

DS-4Bd 2.0

DSV-4d 5.0

DSV-8d 3.0

DS-8Ad 2.2

DS-8Bd 2.3

APPROXIMATE EXTENT AND
DEPTH OF OVER-EXCAVATION

CANOPY FOOTING
(TYP.)

APPROXIMATE EXTENT
OF EXCAVATION
2'-3' bgs

DISPENSER
LOCATION (TYP.)

DS-3d 2.0

DS-2Cd 2.2

DS-2Ed 3.0

DS-2Ad 2.7

DS-2Bd 2.5

DSV-2d 2.5

DSV-6d 2.0

DS-6Ad 2.3

DS-6Bd 2.3

CANOPY FOOTING
(TYP.)

DISPENSER
LOCATION (TYP.)

DS-1Ad 2.7

DS-1Bd 2.2

DSV-5d 2.0

DS-5Ad 2.5

DS-5Bd 1.7

CANOPY FOOTING
(TYP.)

DISPENSER LOCATION
(TYP.)

SANITARY SEWER

SS

Table 3
Soil Analytical Data
Total Petroleum Hydrocarbons, BTEX Compounds, Oxygenates and Total Lead
by EPA Method 8260B and 6010B

Shell Branded Service Station
5251 Hopyard Road, Pleasanton

Boring Number	Depth (feet bgs)	Date Sampled	TEPH (mg/kg)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	MtBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Lead (mg/kg)
DISPENSER SAMPLE SOIL RESULTS																	
DS-1A	2.7	09/20/04	NA	<1.0	<0.005	0.043	0.0071	0.18	0.009	0.017	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.3
DS-1B	2.2	09/20/04	NA	<1.0	<0.005	0.011	<0.005	0.064	0.0051	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	5.4
DS-2A	2.7	09/20/04	NA	80	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	4.2
DS-2B	2.5	09/20/04	NA	3.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	3.4
DS-2D	N/A	09/20/04	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	4.8
DS-2E	3.0	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	0.012	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.3
DS-3	2.0	09/20/04	360	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	NA
DS-4A	2.0	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.1
DS-4B	2.0	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	3.3
DS-5A	2.5	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	3.0
DS-5B	1.7	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	2.0
DS-6A	2.3	09/20/04	NA	470	<0.50	<0.50	<0.50	1.4	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	3.1
DS-6B	2.3	09/20/04	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	3.3
DS-7	1.8	09/20/04	11	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	NA
DS-8A	2.2	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.1
DS-8B	2.3	09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	4.6
PRODUCT PIPING AND VAPOR RECOVERY PIPING SOIL RESULTS																	
DSV2	2.5	09/28/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	0.027	0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	4.0
DSV-4	3.5	09/28/04	NA	<1.0	0.0057	<0.005	<0.005	<0.005	0.12	0.065	<0.010	<0.005	<0.005	<0.005	<0.005	NA	3.4
	5.0	10/06/04	NA	<1.0	0.016	<0.005	<0.005	<0.005	0.20	0.22	<0.010	<0.005	<0.005	<0.005	<0.005	NA	11
DSV-5	2.0	09/28/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	5.2
DSV-6	2.0	09/28/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	0.0087	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	4.3
DSV-8	3.0	09/28/04	NA	1.5	<0.005	<0.005	<0.005	<0.005	0.043	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	2.6
DSV-9	4.0	09/28/04	640	24,000	65	1,300	350	2,300	<13	<63	<25	<13	<13	<13	<13	<630	5.4
	10	09/30/04	NA	<2.0	<0.010	<0.010	<0.010	<0.010	0.053	0.083	<0.020	<0.010	<0.010	<0.010	<0.010	NA	4.3
DSV-10	3.7	09/28/04	NA	<1.0	0.034	<0.005	<0.005	<0.005	0.064	0.013	<0.010	<0.005	<0.005	<0.005	<0.005	NA	5.5
DSV-11	3.5	09/28/04	NA	<1.0	<0.005	0.018	0.0051	0.029	0.035	0.020	<0.010	<0.005	<0.005	<0.005	<0.005	NA	5.0
DSV-12	4.3	09/28/04	NA	<4.8	0.026	0.26	0.037	0.16	<0.024	<0.048	<0.048	<0.024	<0.024	<0.024	<0.024	NA	5.7

Table 3
Soil Analytical Data
Total Petroleum Hydrocarbons, BTEX Compounds, Oxygenates and Total Lead
by EPA Method 8260B and 6010B

Shell Branded Service Station
5251 Hopyard Road, Pleasanton

Boring Number	Depth (feet bgs)	Date Sampled	TEPH (mg/kg)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	MtBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Lead (mg/kg)
DSV-13	4.0	09/28/04	NA	<1.0	0.025	<0.005	<0.005	<0.005	0.085	0.047	<0.010	<0.005	<0.005	<0.005	<0.005	NA	8.8
	5.5	09/30/04	NA	<2.0	0.030	0.012	<0.010	0.020	0.054	0.030	<0.020	<0.010	<0.010	<0.010	<0.010	NA	7.3
DSV-14	4.5	09/30/04	NA	<2.0	<0.010	<0.010	<0.010	<0.010	0.092	0.12	<0.020	<0.010	<0.010	<0.010	<0.010	NA	5.9
DSV-15	5.0	09/30/04	NA	<2.0	0.087	<0.010	<0.010	<0.010	0.17	0.086	<0.020	<0.010	<0.010	<0.010	<0.010	NA	6.2
	7.0	10/06/04	NA	5.6	0.088	0.0065	0.20	0.023	0.024	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	5.8
SOIL STOCKPILE RESULTS																	
DS-2C		09/20/04	NA	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	3.8
SP-1 (A-D)		09/30/04	23	7.4	0.043	0.89	0.20	1.4	0.030	<0.035	<0.035	<0.018	<0.018	<0.018	<0.018	NA	6.1
PEA GRAVEL STOCKPILE RESULTS																	
EX-1		09/20/04	NA	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005	<0.1	6.8
PG-1 (A-D)		09/30/04	25	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	3.8
PG-2 (A-D)		09/30/04	8.1	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	2.5
PG-1.1 (A-D)		09/30/04	8.1	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	3.6
PG-2.1 (A-D)		09/30/04	14	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	1.8
PG-2.2 (A-D)		09/30/04	7.7	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	3.1
PG-2.3 (A-D)		09/30/04	12	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	1.5
PG-2.4 (A-D)		09/30/04	26	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.005	<0.005	<0.005	<0.005	NA	2.7

TEPH = Total purgeable extractable hydrocarbons
 TPPH = Total purgeable petroleum hydrocarbons
 MtBE = Methyl tert-butyl ether
 TBA = Tertiary butyl alcohol, or t-butanol
 DIPE = Di-isopropyl ether
 ETBE = Ethyl tertiary-butyl ether
 TAME = Tertiary amyl methyl ether
 1,2-DCA = 1,2-Dichloroethane, or ethylene dichloride (EDC)
 EDB = Ethylene dibromide
 mg/kg = Milligrams per kilogram
 bgs = Below ground surface
 NA = Not analyzed

Attachment B

**UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE
(LEAK)/CONTAMINATION REPORT - NOVEMBER 22, 2004**

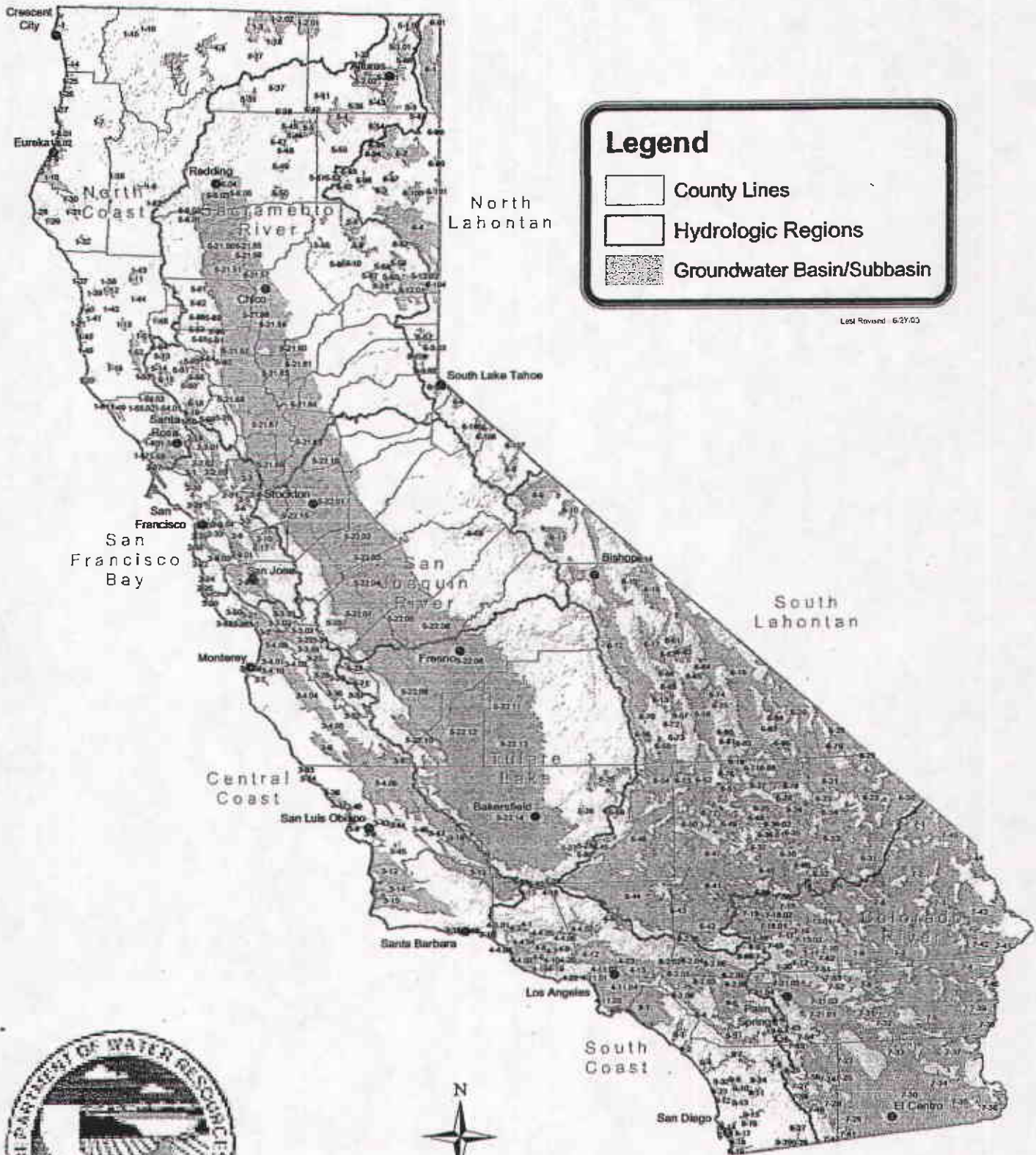
UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT			
EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
REPORT DATE 1 1 2 2 0 4		CASE #	
NAME OF INDIVIDUAL FILING REPORT Aura Sibley		PHONE (916) 240-1610	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. SIGNATURE <i>Chura Sibley</i> 4/23/04
REPORTED BY	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME Equilon Enterprises LLC dba Shell Oil Products US	
ADDRESS 20945 S. Wilmington Avenue CITY Carson STATE CA ZIP 90810			
RESPONSIBLE PARTY	NAME Equilon Enterprises LLC dba Shell Oil Products US	CONTACT PERSON Karen Petryna	PHONE (559) 645-9306
ADDRESS 20945 S. Wilmington Avenue CITY Carson STATE CA ZIP 90810			
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Shell-branded Service Station	OPERATOR Carl Cox	PHONE (925) 463-0980
	ADDRESS 5251 Hopyard Rd CITY Pleasanton COUNTY Alameda ZIP 94588	CHECKS STREET Owens Drive	
IMPLEMENTING AGENCY	LOCAL AGENCY Livermore-Pleasanton Fire Department	CONTACT PERSON Paul Smith	PHONE (925) 454-2300
	REGIONAL BOARD Regional Water Quality Control Board - Region II	CONTACT PERSON Steven Hill	PHONE (510) 622-2361
SUBSTANCE INVOLVED	NAME Gasoline		QUANTITY LOST (GALLONS) 0 <input type="checkbox"/> UNKNOWN
	DATE DISCOVERED 1 1 2 2 0 4		
DISCHARGE/LEAK	HOW DISCOVERED <input checked="" type="checkbox"/> TANK TEST <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input checked="" type="checkbox"/> REPAIR PIPING <input checked="" 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	
	DATE DISCHARGE BEGAN 1 1 2 2 0 4 <input type="checkbox"/> UNKNOWN		
SOURCE/CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> PIPING LEAK <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
CASE TYPE	CHECK ONE ONLY <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) <input type="checkbox"/> EXCAVATE & DISPOSE (E0) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (E1) <input type="checkbox"/> CAP SITE (C0) <input type="checkbox"/> EXCAVATE & TREAT (E1) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (PT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input checked="" type="checkbox"/> OTHER (OT) <u>extract and off-haul groundwater</u>		
COMMENTS	UST failed tightness test. Suspect crack at tank bottom. Inventory report showed ~300 gallon increase in volume which is indicative of groundwater entering the tank. Pressure differential between water table and tank is preventing fuel from discharging from tank. Fuel has been removed from tank to allow tank inspection/repair. Site is an existing LOP case.		

HSC 02 1000




Attachment C

REGIONAL HYDROGEOLOGIC INFORMATION

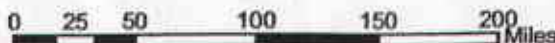
Groundwater Basins in California



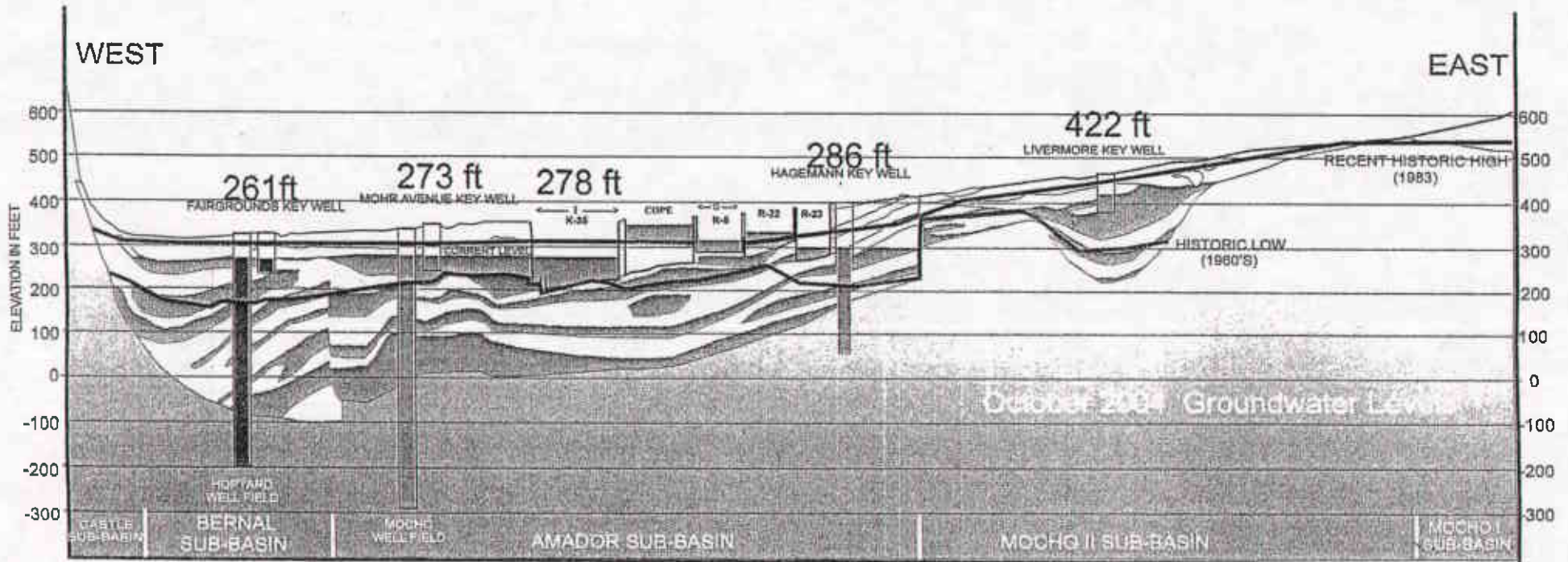
Legend

-  County Lines
-  Hydrologic Regions
-  Groundwater Basin/Subbasin

Last Revised: 6/29/03



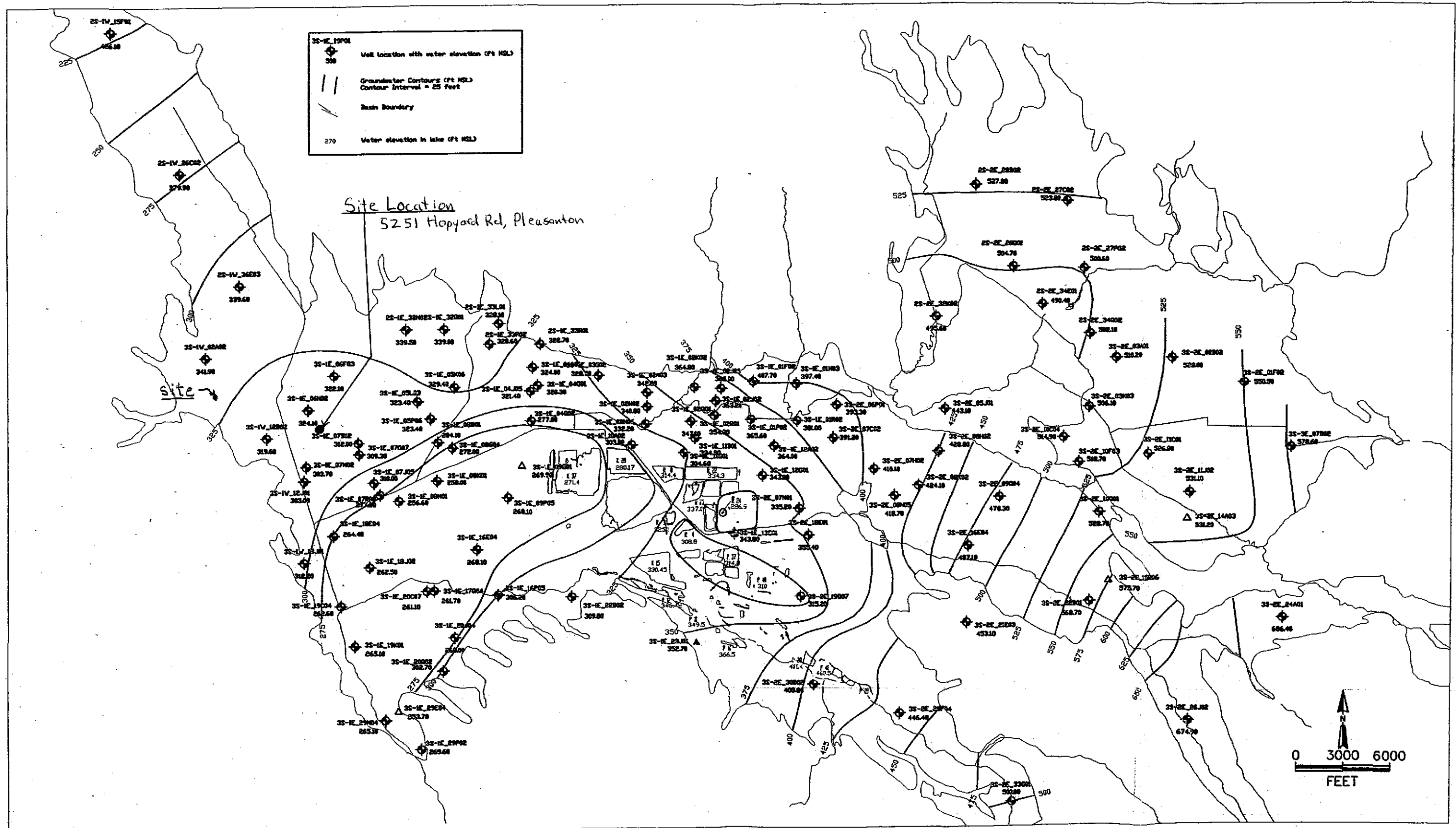
LIVERMORE-AMADOR VALLEY GROUNDWATER BASIN WEST-EAST CROSS-SECTION



	Bernal	Amador	Mocho II	Total
Area (Ac)	3,100	9,900	4,300	17,300
Saturated Thickness (ft)	246	159	98	168
Storage Coefficient	0.07	0.08	0.06	0.07
Groundwater Vol. (A-F)	53,000	126,000	25,000	204,000
Available Operational Storage	12,000	43,000	22,000	77,000

FIGURE 4-1

FIGURE 4-1



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

DWN: Tom Rooze
DES: Gerry Gates
CHK:
APPD:

Semi Annual Groundwater Gradient Map
2003 Water Year, Fall 2003 (September)
Upper Aquifer, Livermore Valley Basin, California

FILE: 2003GWUpper.dwg
DATE: Aug 5, 2004
FIGURE NUMBER: 4

Attachment D

WELL SURVEY INFORMATION



ZONE 7 WATER AGENCY
 5997 PARKSIDE DRIVE
 PLEASANTON, CA 94588

WELL LOCATION MAP

SCALE: 1"= 800 ft

DATE: 5/17/04

Hopyard Rd & Owens Dr

WWW.PLEASANTONCA.GOV

Table 1
Well Location Details
 Shell-branded Service Station
 5251 Hopyard Road, Pleasanton

Map Number	Well Number	Source of Information	Well Location	Approximate Distance and Direction from Site (Feet)	Total Depth ft.	Date Installed	Use
6F1	3S/1E - 6F1	Zone 7	See Map	2,400'NNW	NA	NA	Water Well
6F2	3S/1E - 6F2	Zone 7	See Map	2,400'NNW	NA	NA	Water Well
G1	3S/1E - 6G1	Zone 7	See Map	1,550'N	NA	NA	Abandoned Water Well
G4	3S/1E - 6G4	DWR/Zone 7	See Map	2,500'N	192	NA	Water Well
G5	3S/1E - 6G5	DWR/Zone 7	See Map	2,000'NE	200	1969	Water Well
G6	3S/1E - 6G6	Zone 7	See Map	2,200'NNE	NA	NA	Water Well
Q2	3S/1E - 6Q2	Zone 7	See Map	100-300'W	NA	Recorded 1959	Destroyed Irrigation Well

NA = Information Not Available

Table 2
Well Construction Details
 Shell-branded Service Station
 5251 Hopyard Road, Pleasanton

Map Number	Total Depth	Depth to Water (ft. bgs)	Casing Type	Casing Diameter (in.)	Screen Interval (ft. bgs)	Gravel Pack Interval (ft. bgs)	Annular Seal Depth (ft. bgs)	Annular Seal Material	Well Construction Method	Driller's log Number	Pumping Test Rate (gpm)	Test Duration (hours)
F1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G4	192	33-72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G5	200	85	NA	NA	103-106 and 173-178	NA	NA	NA	NA	13095	70	NA
G6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

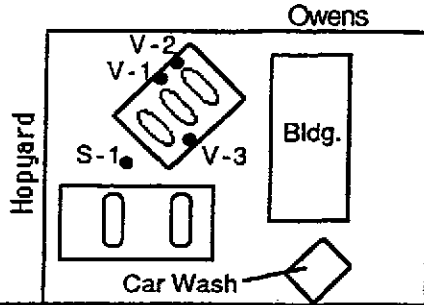
NA = Information Not Available

ft. bgs = Feet below ground surface

gpm = Gallons per minute

Attachment E
SITE BORING LOGS

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / S-1
BORING NO.
PAGE 1 OF 1

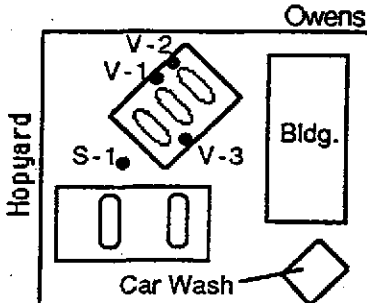
PROJECT NO. 101-09.01
 LOGGED BY: MD
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020
 GRAVEL PACK: 12 X 20 SAND

CLIENT: G.R. Shell
 DATE DRILLED: 1-5-88
 LOCATION: Hopyard & Owens
 HOLE DIAMETER: 8"
 HOLE DEPTH: 30.5'
 WELL DEPTH: 29'
 WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2				ASPHALT & GRAVEL - FILL.
	Dp	1.0	PUSH 400	4			CL	CLAY; dark gray; moderate plasticity; silty; trace iron oxide stains. @3'; no product odor.
	Mst	0.0	11	10				@9'; as above; tan mottled gray; gray around rootholes; abundant rootholes; trace-5% fine sand; stiff; no product odor.
	Wt	5.5	11	14				@14'; as above; water in rootholes; stiff; no product odor.
	Wt	0.0	17	20				@19'; as above; no sand; very stiff; no product odor.
	Wt	0.8	16	24				@24'; as above; trace-5% fine to medium sand; stiff; no product odor.
	Wt	0.0	34	30			SC	CLAYEY SAND; light to medium brown; 10-15% low plasticity fines; very fine grained; poorly graded; dense. @30'; no product odor.
				32				
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 30.5'

LOCATION MAP



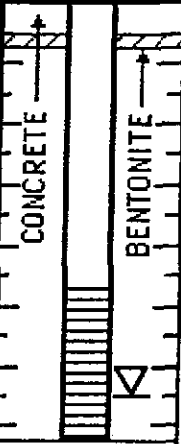
PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / V-1
BORING NO.
PAGE 1 OF 1

PROJECT NO. 101-09.01
LOGGED BY: MD
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: Pea Gravel

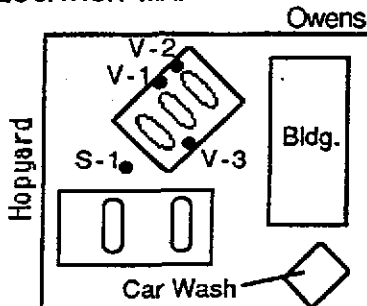
CLIENT: G.R. Shell
DATE DRILLED: 1-5-88
LOCATION: Hopyard & Owens
HOLE DIAMETER: 8"
HOLE DEPTH: 14.5'
WELL DEPTH: 14.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2		GP	GP	GRAVEL; light gray; fine grained; pea gravel tank backfill; no samples taken in fill. moderate product odor in gravel brought up in augers. CLAY; tan to medium brown; gray mottle at rootholes; abundant rootholes; water in rootholes; trace fine to medium sand; very stiff. @14'; faint product odor. BOTTOM OF BORING AT 14.5'
				4				
				6				
				8				
				10				
				12				
				14		CL	CL	
				16				
				18				
				20				
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				



Wt 18 21

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / V-2
BORING NO.
PAGE 1 OF 1

PROJECT NO. 101-09.01
LOGGED BY: MD
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020
GRAVEL PACK: Pea Gravel

CLIENT: G.R. Shell
DATE DRILLED: 1-5-88
LOCATION: Hopyard & Owens
HOLE DIAMETER: 8"
HOLE DEPTH: 14.5'
WELL DEPTH: 14.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CONCRETE				2		GP	GP	GRAVEL; light gray; tank backfill; fine grained pea gravel; no samples taken in fill. faint product odor in gravel brought up in augers.
BENTONITE				4				
				6				
				8				
				10				
				12				
				14		CL	CL	
				16				
				18				
				20				
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				
	Wt	0.3	16					CLAY; tan; gray mottle around rootholes; silty; trace fine sand; roots; stiff. @13'; faint product odor. BOTTOM OF BORING AT 14.5'

Field location of boring: (See Plate 2)	Project No.: 7633	Date: 10/30/89	Boring No:
	Client: Shell Oil Company	S-6	
	Location: 5251 Hayyard Road	Sheet 1	
	City: Pleasanton, California	of 2	
Logged by: R.S.Y.	Driller: Bayland	Casing installation data:	

Drilling method: Hollow-Stem Auger	Top of Box Elevation: 326.56	Datum: MSL
Hole diameter: 8-Inch		

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description
								Time				
				1								PAVEMENT SECTION - 2.5 feet
0	4	S&H		3								
	12		S-6	4								CLAY (CH) - black (7.5YR 2/0), very stiff, damp, trace fine sand, high plasticity; rootlets; no chemical odor.
	13		4.5	4								
				5								
				6								
				7								
				8								
				9								soft drilling at 8.0 feet.
0	350	S&H		10								SANDY CLAY (CL) - dark grayish brown (10YR 4/2), very stiff, damp, low plasticity; 35% very fine sand; trace gravels; no chemical odor.
	350	push	S-6	11								
	350		11.0	11								
				12								
0	4	S&H		13								
	7		S-6	14								same as above; rootholes; voids.
	7		14.0	14								
	3			15								
	4		S-6	15								sand lense at 15.0 feet - 2.0 inches thick; no chemical odor.
	5		15.5	15								
				16								
				17								
				18								
				19								Sample rods wet at 18.5 feet

Remarks:

Field location of boring: (See Plate 2)	Project No.: 7633	Date: 10/30/89	Boring No:
	Client: Shell Oil Company		S-6
	Location: 5251 Hopyard Road		Sheet 2
	City: Pleasanton, California		of 2
	Logged by: R.S.Y.	Driller: Bayland	
Casing installation data:			

Drilling method: Hollow-Stem Auger	Top of Box Elevation:	Datum:
Hole diameter: 8-inch		

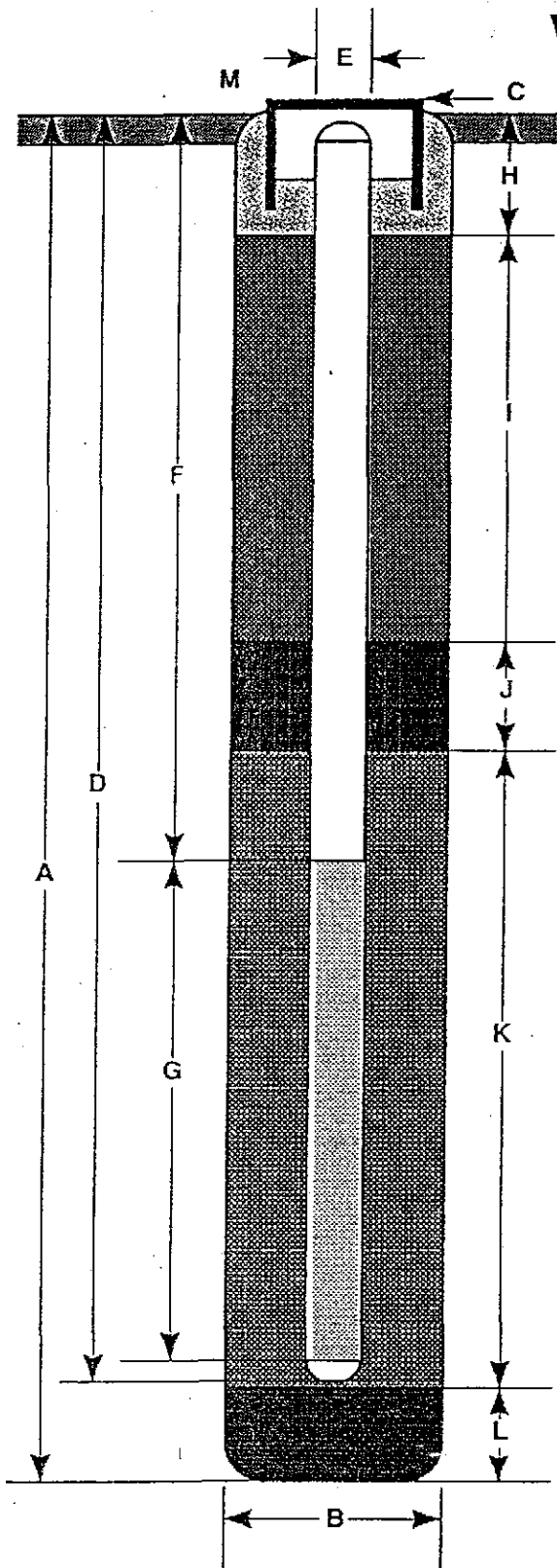
PID (ppm)	Blows/ft or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level			Description
								Time			
0	4	S&H		20							same as above; trace well rounded gravel.
	5		S-6								
	6		21.0	21							
				22							
				23							
				24							
0	4	S&H		25							CLAY (CH) - black (7.5YR 2/0), medium stiff, saturated, high plasticity; trace fine gravel; no chemical odor.
	3		S-6								
	2		26.0	26							
				27							Bottom of boring at 26.0 feet. Bottom of sample at 26.0 feet.
				28							
				29							
				30							
				31							
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							

Remarks:



GeoStrategies Inc.

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 26.0 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow-Stem Auger
- C Top of Box Elevation _____ 326.56 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 25.5 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 6.0 ft.
- G Perforated Length _____ 20 ft.
Perforated Interval from _____ 6 to _____ 26 ft.
Perforation Type _____ Schedule 40 PVC
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0 to _____ 1.5 ft.
Seal Material _____ concrete grout
- I Backfill from _____ 1.5 to _____ 4.0 ft.
Backfill Material _____ cement grout
- J Seal from _____ 4.0 to _____ 5.0 ft.
Seal Material _____ Bentonite Pellets
- K Gravel Pack from _____ 5.0 to _____ 26.0 ft.
Pack Material _____ Lonestar #2/12 sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____



GeoStrategies Inc.

Well Construction Detail

WELL NO.

S-6

JOB NUMBER
7633

REVIEWED BY RG/CEG
DWP CEG 1262

DATE
11/89

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)

Project No.: 7633 Date: 10/30/89 Boring No: S-7

Client: Shell Oil Company

Location: 5251 Hopyard Road

City: Pleasanton, California

Logged by: R.S.Y. Driller: Bayland Sheet 1 of 2

Casing installation data:

Drilling method: Hollow-Stem Auger

Hole diameter: 8-Inch

Top of Box Elevation: 326.49 Datum: MSL

PID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		Description
								Time	Date	
				1						PAVEMENT SECTION - 2.5 feet
				2						
				3						
				4						CLAY with SAND (CH) - black (2.5Y 2/0), very stiff, moist, high plasticity; 20% very fine sand; trace well rounded fine gravel; 30% peat from 4.5 to 6.0 feet; no chemical odor.
0	450	S&H		5						
	450	push	S-7	6						
	450		6.0	6						
				7						
				8						
				9						soft at 8.5 feet
0	200	S&H		10						
	200	push	S-7	11						SANDY CLAY (CL) - very dark grayish brown (7.5YR 3/2), stiff, moist, low plasticity; 35% very fine sand; no chemical odor.
	200		11.0	11						
				12						
				13						
				14						
0	4	S&H		15						
	5		S-7	16						CLAY (CH) - very dark gray (7.5YR 3/0), medium stiff, very moist, open voids, high plasticity; calcareous stringers; no chemical odor.
	6		16.0	16						
				17						
				18						
				19						Sample rods wet at 18.5 feet

Remarks:

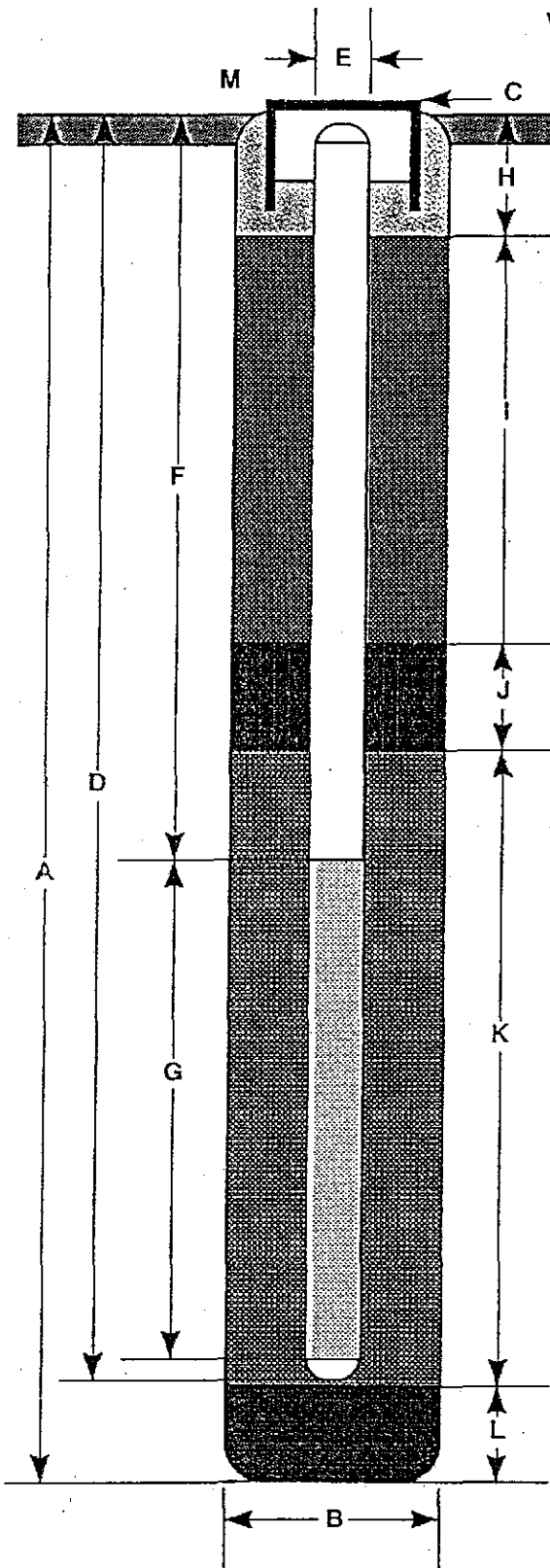
Field location of boring: (See Plate 2)	Project No.: 7633	Date: 10/30/89	Boring No:
	Client: Shell Oil Company		S-7
	Location: 5251 Hopyard Road		
	City: Pleasanton, California		Sheet 2
	Logged by: R.S.Y.	Driller: Bayland	of 2

Drilling method: Hollow-Stem Auger	Top of Box Elevation:	Datum:
Hole diameter: 8-Inch		

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description	
								Time					
0	4	S&H		20									
	5		S-7										
	6		21.0	21									COLOR CHANGE to gray (2.5Y 5/0); 10% very fine sand; no chemical odor.
				22									
				23									
				24									
0	3	S&H		25									
	4		S-7										
	5		26.0	26									CLAYEY SAND (SC) - olive gray (5Y 4/2), loose, saturated; 70% very fine sand; 30% clay; no chemical odor.
	2	S&H											
	3			27									CLAY (CL) - dark gray (2.5Y 4/0), medium stiff, moist, low plasticity; no chemical odor.
	4			28									
				29									
				30									Bottom of boring at 27.5 feet. Bottom of sample at 27.5 feet.
				31									
				32									
				33									
				34									
				35									
				36									
				37									
				38									
				39									

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 27.5 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow-Stem Auger
- C Top of Box Elevation 326.49 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 25.5 ft.
Material Schedule 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 4.5 ft.
- G Perforated Length 20 ft.
Perforated Interval from 5.5 to 25.5 ft.
Perforation Type Schedule 40 PVC
Perforation Size 0.020 in.
- H Surface Seal from 0 to 1.5 ft.
Seal Material concrete grout
- I Backfill from 1.5 to 3.5 ft.
Backfill Material cement grout
- J Seal from 3.5 to 4.5 ft.
Seal Material Bentonite Pellets
- K Gravel Pack from 4.5 to 27.5 ft.
Pack Material Lonestar #2/12 sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____

Well Construction Detail

WELL NO.



GeoStrategies Inc.

S-7

JOB NUMBER
7633

REVIEWED BY RG/CEG
CAMP CEG R62

DATE
11/89

REVISED DATE

REVISED DATE

Field location of boring: (See Plate 2)	Project No.: 7633	Date: 11/06/89	Boring No:
	Client: Shell Oil Company	S-8	
	Location: 5251 Hopyard Road		
	City: Pleasanton, California	Sheet 1	
	Logged by: R.S.Y.	Driller: Bayland	of 2
Casing installation data:			


Drilling method: Hollow-Stem Auger	Top of Box Elevation: 325.32	Datum: MSL
Hole diameter: 8-Inch		

PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level					
								Time	Date	Description			
				1									
				2									
				3									
				4									
0	100	S&H		5									
	100	push	S-8										
	100		5.5										
				6									
				7									
				8									
				9									
0	100	S&H		10									
	100	push	S-8										
	100		10.5										
				11									
				12									
				13									
				14									
0	2	S&H		15									
	2		S-8										
	5		15.5										
				16									
				17									
				18									
				19									

Remarks:

Log of Boring

BORING NO. S-8



Field location of boring:

(See Plate 2)

Project No.: 7633 Date: 11/06/89 Boring No:
 Client: Shell Oil Company S-8
 Location: 5251 Hopyard Road
 City: Pleasanton, California Sheet 2
 Logged by: R.S.Y. Driller: Bayland of 2
 Casing installation data:

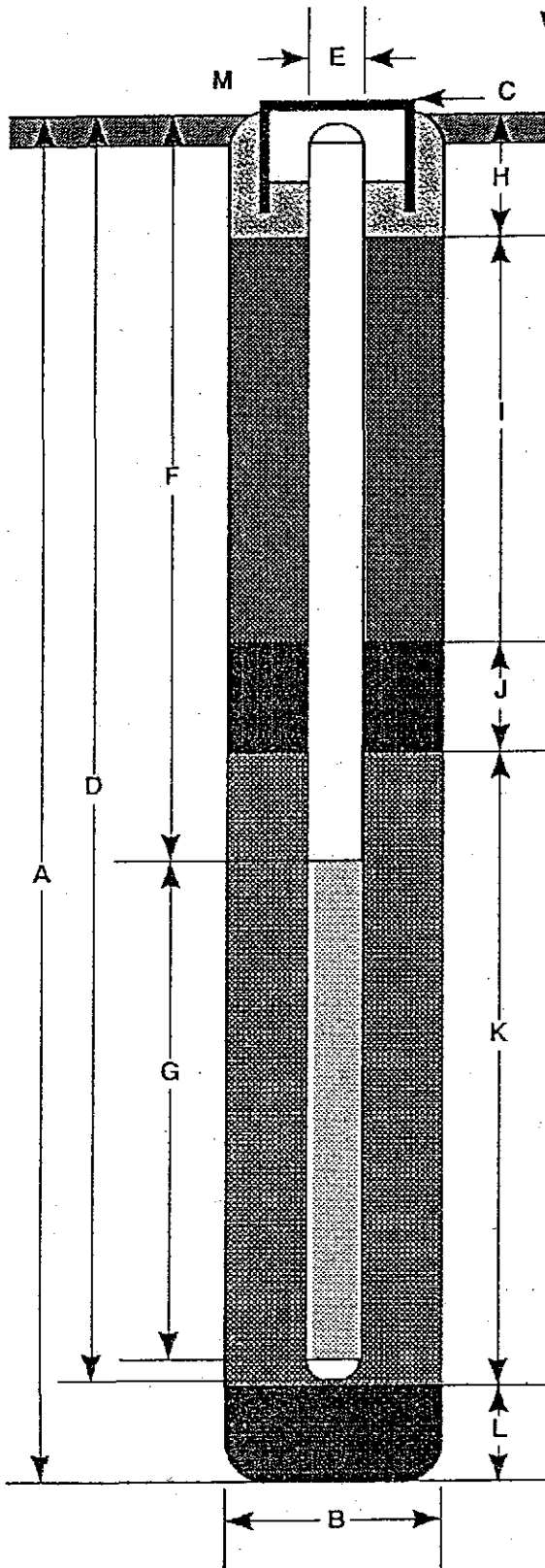
Drilling method: Hollow-Stem Auger
 Hole diameter: 8-Inch

Top of Box Elevation: Datum:

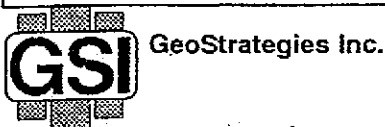
FID (ppm)	Blows/ft. or Pressure (psi)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level				Description	
													Time
0	2	S&H		20									
	2		S-8										
	5		20.5										same as above; caliche nodules.
				21									
				22									
				23									
				24									
	4	S&H		25									COLOR CHANGE to olive gray (5Y 4/2), increasing density.
	5		S-8										
	6		26.0	26									Bottom of boring at 26.0 feet. Bottom of sample at 26.0 feet.
				27									
				28									
				29									
				30									
				31									
				32									
				33									
				34									
				35									
				36									
				37									
				38									
				39									

Remarks:

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 26 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow-Stem Auger
- C Top of Box Elevation 325.32 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 25 ft.
Material Schedule 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 5 ft.
- G Perforated Length 20 ft.
Perforated Interval from 5 to 25 ft.
Perforation Type Schedule 40 PVC
Perforation Size 0.020 in.
- H Surface Seal from 0.0 to 1.5 ft.
Seal Material concrete grout
- I Backfill from 1.5 to 3.0 ft.
Backfill Material cement grout
- J Seal from 3 to 4 ft.
Seal Material Bentonite Pellets
- K Gravel Pack from 4 to 26 ft.
Pack Material Lonestar #2/12 sand
- L Bottom Seal _____ ft.
Seal Material _____
- M _____



Well Construction Detail

WELL NO.

S-8

JOB NUMBER
7633

REVIEWED BY RG/CEG
UMP CEG 1262

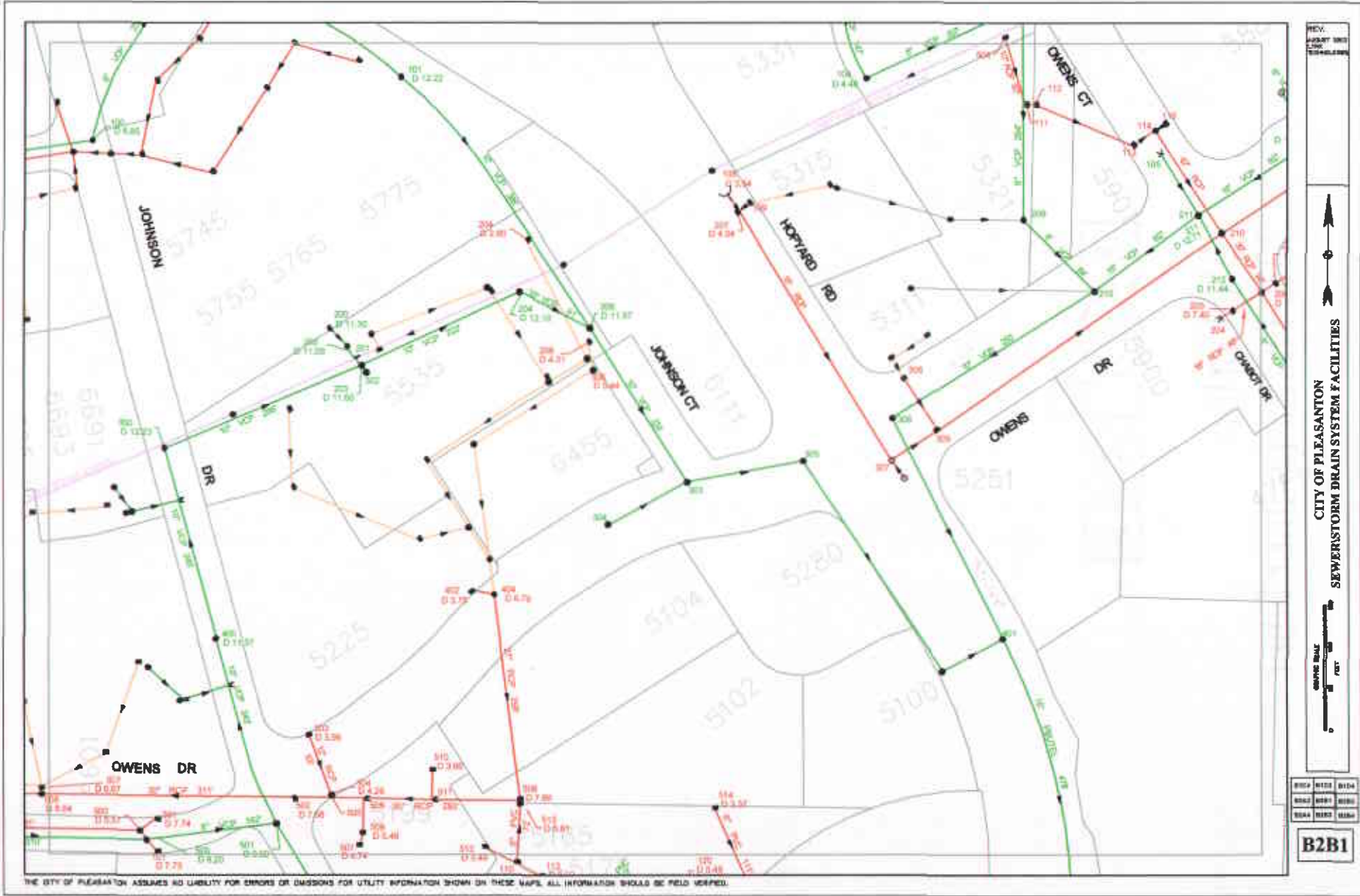
DATE
11/89

REVISED DATE

REVISED DATE

Attachment F

UNDERGROUND UTILITY MAPS



REV.
DATE
BY
DESCRIPTION



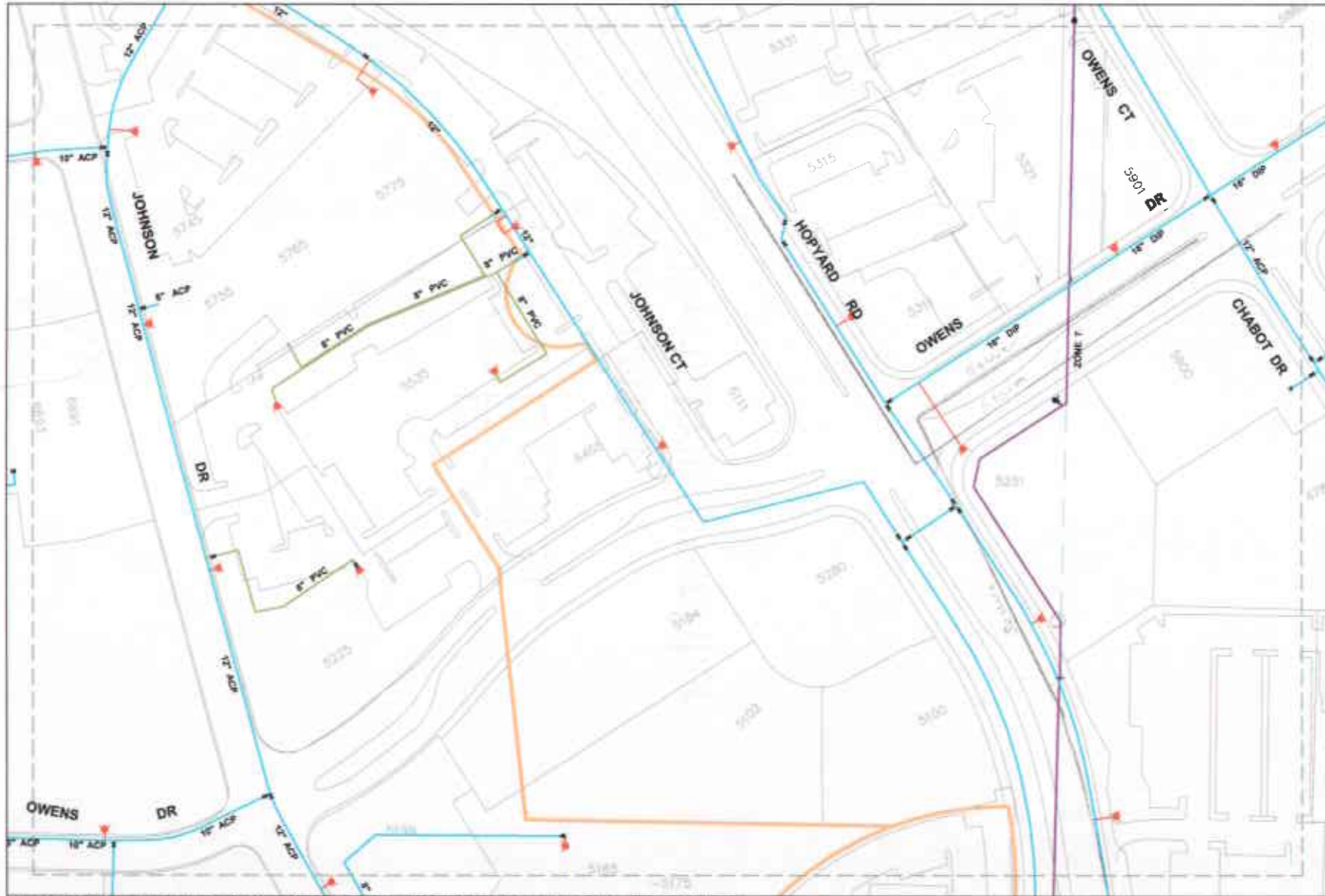
CITY OF PLEASANTON
SEWER STORM DRAIN SYSTEM FACILITIES



8104	8124	8124
8042	8081	8081
8044	8083	8084

B2B1

THE CITY OF PLEASANTON ASSUMES NO LIABILITY FOR ERRORS OR OMISSIONS FOR UTILITY INFORMATION SHOWN ON THESE MAPS. ALL INFORMATION SHOULD BE FIELD VERIFIED.



REV
 JAN 2006
 CDR
 J. HARRIS



CITY OF PLEASANTON
 WATER SYSTEM FACILITIES



BYC	BYD	BYE
BYF	BYG	BYH
BYI	BYJ	BYK

B2B1

THE CITY OF PLEASANTON ASSUMES NO LIABILITY FOR ERRORS OR OMISSIONS FOR UTILITY INFORMATION SHOWN ON THESE MAPS. ALL INFORMATION SHOULD BE FIELD VERIFIED.

Attachment G

**BLAINE TECH SERVICES MONITORING REPORT
FIRST QUARTER 2005**

**BLAINE
TECH SERVICES INC.**

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

March 7, 2005

Karen Petryna
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

First Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
5251 Hopyard Road
Pleasanton, CA

Monitoring performed on January 14, 2005

Groundwater Monitoring Report **050114-WC-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/ks

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

cc: Ross Tinline
Toxichem Management Systems
11 Kenton Ave.
San Carlos, CA 94070

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard 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 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	01/25/1991	2,500	1,500	460	<25	130	36	NA	NA	326.73	NA	NA	NA
S-1	04/06/1991	6,700	2,600a	2,600	14	580	250	NA	NA	326.73	NA	NA	NA
S-1	07/24/1991	8,800	3,800a	2,300	30	640	220	NA	NA	326.73	NA	NA	NA
S-1	10/18/1991	12,000	3,300a	3,600	380	990	580	NA	NA	326.73	8.85	317.88	NA
S-1	01/23/1992	1,600	890	450	3	120	17	NA	NA	326.73	NA	NA	NA
S-1	04/27/1992	1,100g	500a	610	<10	110	10	NA	NA	326.73	NA	NA	NA
S-1	07/21/1992	5,100	290c	1,900	54	460	140	NA	NA	326.73	NA	NA	NA
S-1	10/16/1992	13,000	390c	3,200	310	780	360	NA	NA	326.73	NA	NA	NA
S-1	01/23/1993	2,300	30d	640	<5	110	13	NA	NA	326.73	7.96	318.77	NA
S-1	04/28/1993	4,600	390	780	<0.5	250	<0.5	NA	NA	326.73	9.07	317.66	NA
S-1	09/22/1993	3,000	610a	660	28	160	17	NA	NA	326.73	8.68	318.05	NA
S-1	12/08/1993	520	280	210	<2.5	49	<2.5	NA	NA	326.73	8.23	318.50	NA
S-1	03/04/1994	640	NA	190	1.4	18	1.3	NA	NA	326.73	8.81	317.92	NA
S-1 (D)	03/04/1994	640	NA	180	1.7	17	1.3	NA	NA	326.73	8.81	317.92	NA
S-1	06/16/1994	2,500	NA	390	9.5	31	7.5	NA	NA	326.73	8.80	317.93	NA
S-1 (D)	06/16/1994	2,000	NA	410	7.8	120	20	NA	NA	326.73	8.80	317.93	NA
S-1	09/13/1994	1,400	NA	310	7.7	29	8.5	NA	NA	326.73	8.62	318.11	NA
S-1 (D)	09/13/1994	1,400	NA	240	7.9	44	6.3	NA	NA	326.73	8.62	318.11	NA
S-1	05/05/1995	800	NA	120	3.6	26	2.7	NA	NA	326.73	11.54	315.19	NA
S-1 (D)	05/05/1995	710	NA	110	3.4	19	2.7	NA	NA	326.73	11.54	315.19	NA
S-1	05/21/1996	1,500	NA	170	8.5	120	6.7	NA	NA	326.73	8.88	317.85	NA
S-1	05/12/1997	4,700	NA	200	15	210	20	2,300	NA	326.73	11.19	315.54	2.4
S-1 (D)	05/12/1997	4,800	NA	210	16	190	16	3,200	2,900	326.73	11.19	315.54	2.4
S-1	05/08/1998	500	NA	18	2.1	2.3	2	1,000	NA	326.73	8.38	318.35	2.1
S-1	06/27/1999	2,970	NA	117	32.0	69.1	17.5	374	NA	326.73	8.79	317.94	2.4
S-1	04/28/2000	1,920	NA	50.5	15.0	67.2	46.7	276	NA	326.73	8.50	318.23	2.8

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard 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 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

S-1	05/30/2001	3,900	NA	27	12	140	28	NA	140	326.73	8.18	318.55	2.6
S-1	06/17/2002	2,700	NA	25	11	51	14	NA	140	326.73	8.39	318.34	3.2
S-1	05/30/2003	3,900	NA	12	8.2	47	12	NA	270	326.74	7.41	319.33	1.2
S-1	05/03/2004	3,700	NA	32	21	170	34	NA	410	326.74	11.18	315.56	2.4
S-1	01/14/2005	4,200	NA	22	34	380	33	NA	100	326.74	7.10	319.64	0.58

S-2	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	8.83	317.76	NA
S-2	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	07/17/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	NA	NA	NA
S-2	01/23/1993	<50	140b	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	8.10	318.49	NA
S-2	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	9.06	317.53	NA
S-2	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.91	317.68	NA
S-2	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.59	9.07	317.52	NA
S-2	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.90	317.69	NA
S-2	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.59	8.98	317.61	NA
S-2	09/13/1994	<50	NA	<0.5	2.5	<0.5	<0.5	NA	NA	326.59	8.78	317.81	NA
S-2	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	8.60	317.99	NA
S-2	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.59	8.75	317.84	NA
S-2	05/12/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	326.59	8.72	317.87	3.4
S-2	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.59	8.63	317.96	3.1
S-2	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	326.59	8.79	317.80	2.6

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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 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.59	8.33	318.26	2.0
S-2	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	326.59	8.56	318.03	1.8
S-2	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	326.59	8.87	317.72	i
S-2	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	18	326.47	7.89	318.58	1.7
S-2	05/03/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	510	326.47	5.44	321.03	0.1
S-2	01/14/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	270	326.47	7.88	318.59	NA
S-3	01/25/1991	870	330	230	<2.5	130	<2.5	NA	NA	327.38	NA	NA	NA
S-3	04/16/1991	190	140a	12	0.8	6.2	1.5	NA	NA	327.38	NA	NA	NA
S-3	07/24/1991	1,700	1,200a	450	4.4	150	2.9	NA	NA	327.38	NA	NA	NA
S-3	10/18/1991	1,900	500	370	3.1	120	220	NA	NA	327.38	9.64	317.74	NA
S-3	01/23/1992	2,000	650a	580	3	200	<0.5	NA	NA	327.38	NA	NA	NA
S-3	04/27/1992	1,100	230a	150	<3	76	14	NA	NA	327.38	NA	NA	NA
S-3	07/17/1992	810	58	200	<2.5	57	3.8	NA	NA	327.38	NA	NA	NA
S-3	10/16/1992	440	190c	79	1.8	18	4.6	NA	NA	327.38	NA	NA	NA
S-3	01/23/1993	670	170d	79	1.5	46	15	NA	NA	327.38	8.81	318.57	NA
S-3	04/28/1993	2,000	<50	300	3.4	210	38	NA	NA	327.38	9.87	317.51	NA
S-3	09/22/1993	4,800	670a	2,000	34	150	51	NA	NA	327.38	9.65	317.73	NA
S-3	12/08/1993	1,200	11	440	<5.0	120	29	NA	NA	327.38	9.26	318.12	NA
S-3	03/04/1994	630	NA	130	<0.5	17	0.8	NA	NA	327.38	9.64	317.74	NA
S-3	06/16/1994	1,800	NA	430	19	35	21	NA	NA	327.38	9.78	317.60	NA
S-3	05/05/1995	160	NA	50	0.9	7.2	4.1	NA	NA	327.38	9.38	318.00	NA
S-3	05/21/1996	270	NA	45	<0.5	1.4	<0.5	NA	NA	327.38	9.41	317.97	NA
S-3 (D)	05/21/1996	210	NA	<0.5	<0.5	0.95	<0.5	NA	NA	327.38	9.41	317.97	NA
S-3	05/12/1997	420	NA	<1.0	<1.0	<1.0	<1.0	57	NA	327.38	9.30	318.08	2.5
S-3	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	327.38	9.12	318.26	2.2

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S-3	06/27/1999	106	NA	8.51	<0.500	<0.500	<0.500	31.0	NA	327.38	9.39	317.99	2.1
S-3	04/28/2000	139	NA	7.58	<0.500	<0.500	<0.500	42.6	NA	327.38	9.04	318.34	1.8
S-3	05/30/2001	2,200	NA	510	6.9	100	21	NA	33	327.38	9.19	318.19	2.0
S-3	06/17/2002	600	NA	150	2.1	30	11	NA	36	327.38	9.35	318.03	0.1
S-3	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	9.0	327.04	8.39	318.65	1.2
S-3	05/03/2004	61 k	NA	0.90	<0.50	<0.50	<1.0	NA	9.8	327.04	8.73	318.31	1.2
S-3	01/14/2005	94	NA	4.6	<0.50	3.1	1.0	NA	13	327.04	8.00	319.04	NA

S-4	01/25/1991	<50	<50	<0.5	1.5	<0.5	2.8	NA	NA	327.38	NA	NA	NA
S-4	04/16/1991	<50	0.7	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	10/18/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	8.82	318.56	NA
S-4	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	07/17/1992	<500	74	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	10/16/1992	<500	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	NA	NA	NA
S-4	01/23/1993	<500	94b	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	8.32	319.06	NA
S-4	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	9.76	317.62	NA
S-4	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.30	318.08	NA
S-4	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.74	317.64	NA
S-4	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.60	317.78	NA
S-4	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	327.38	9.42	317.96	NA
S-4	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	9.02	318.36	NA
S-4	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.38	9.29	318.09	NA
S-4	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	140	NA	327.38	7.95	319.43	2.5
S-4	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	250	NA	327.38	8.96	318.42	2.0

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S-4	06/27/1999	303	NA	35.8	24.8	12.4	69.8	106	NA	327.38	8.90	318.48	2.6
S-4	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	40.2	NA	327.38	8.37	319.01	1.9
S-4	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	6.8	327.38	8.83	318.55	1.8
S-4	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	31	327.38	9.37	318.01	4.8
S-4	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	130	327.24	8.46	318.78	1.4
S-4	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	170	327.24	8.70	318.54	1.1
S-4	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	25	327.24	8.17	319.07	NA
S-5	01/25/1991	<50	<50	<0.5	<0.5	<0.5	0.7	NA	NA	327.76	NA	NA	NA
S-5	04/16/1991	<50	<50	<0.5	<0.5	<0.5	0.8	NA	NA	327.76	NA	NA	NA
S-5	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	NA	NA	NA
S-5	10/18/1991	120e	<50	4.3	<0.5	1	0.7	NA	NA	327.76	10.00	317.76	NA
S-5	01/23/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	NA	NA	NA
S-5	04/27/1992	50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	327.76	NA	NA	NA
S-5	07/17/1992	<50	70	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	NA	NA	NA
S-5	10/16/1992	230	57	13	<0.5	4.9	4.3	NA	NA	327.76	NA	NA	NA
S-5	01/23/1993	<50	150b	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	8.88	318.88	NA
S-5	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	10.20	317.56	NA
S-5	09/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	9.92	317.84	NA
S-5	12/08/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	10.19	317.57	NA
S-5	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	9.95	317.81	NA
S-5	06/16/1994	<50	NA	0.9	<0.5	<0.5	<0.5	NA	NA	327.76	10.02	317.74	NA
S-5	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	9.58	318.18	NA
S-5	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.76	9.84	317.92	NA
S-5	05/12/1997	360	NA	3.3	<0.50	17	9.8	130	NA	327.76	9.16	318.60	4.2
S-5	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	92	NA	327.76	9.25	318.51	3.8

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S-5 (D)	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	100	NA	327.76	9.25	318.51	3.8
S-5	06/27/1999	223	NA	13.7	12.9	8.20	45.8	106	NA	327.76	9.39	318.37	3.0
S-5	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	255	NA	327.76	9.43	318.33	1.2
S-5	05/30/2001	<100	NA	<1.0	<1.0	<1.0	<1.0	NA	480	327.76	9.47	318.29	1.1
S-5	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	210	327.76	9.74	318.02	0.2
S-5	05/30/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	450	327.43	8.87	318.56	1.7
S-5	05/03/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	NA	470	327.43	9.10	318.33	0.7
S-5	01/14/2005	<100	NA	<1.0	<1.0	<1.0	<2.0	NA	230	327.43	8.43	319.00	NA
S-6	01/25/1991	<50	<50	<0.5	1.7	<0.5	2.8	NA	NA	326.56	NA	NA	NA
S-6	04/16/1991	<50	<50	<0.5	<0.5	<0.5	0.6	NA	NA	326.56	NA	NA	NA
S-6	07/24/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	326.56	NA	NA	NA
S-6	10/18/1991	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	326.56	8.84	317.22	NA
S-6	01/23/1992	<50	<50	<0.5	<0.5	<0.5	0.5	NA	NA	326.56	NA	NA	NA
S-6	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	NA	NA	NA
S-6	07/17/1992	400	130	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	NA	NA	NA
S-6	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	NA	NA	NA
S-6	01/23/1993	<50	230b	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	7.82	318.74	NA
S-6	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	9.00	317.56	NA
S-6	09/22/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	8.61	317.96	NA
S-6	12/08/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	10.02	316.54	NA
S-6	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	8.88	317.68	NA
S-6	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	9.04	317.52	NA
S-6	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	8.54	318.02	NA
S-6	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.56	8.62	317.94	NA
S-6	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.56	8.60	317.96	2.6

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S-6	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.56	7.90	318.66	2.2
S-6	06/27/1999	430	NA	50.1	30.5	15.2	83.5	8.05	NA	326.56	8.01	318.55	2.3
S-6	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.56	8.84	317.72	2.0
S-6	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	326.56	8.54	318.02	1.9
S-6	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	326.56	8.48	318.08	1.3
S-6	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	8.7	326.35	7.36	318.99	1.0
S-6	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	326.35	8.08	318.27	0.9
S-6	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	326.35	7.38	318.97	NA
S-7	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	10/18/1991	<50	140f	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.92	317.57	NA
S-7	01/23/1992	<50	140f	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	07/17/1992	<50	<50	<0.5	1.8	0.6	4.1	NA	NA	326.49	NA	NA	NA
S-7	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	NA	NA	NA
S-7	01/23/1993	<50	110b	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.06	318.43	NA
S-7	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.94	317.55	NA
S-7	09/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.57	317.92	NA
S-7	12/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.00	317.49	NA
S-7	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.49	8.96	317.53	NA
S-7	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.49	9.12	317.37	NA
S-7	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.58	317.91	NA
S-7	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.49	8.64	317.85	NA
S-7	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.49	8.74	317.75	2.3

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S-7	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.49	8.00	318.49	2.5
S-7	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	326.49	8.75	317.74	2.9
S-7	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.49	8.96	317.53	2.2
S-7	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	326.49	8.65	317.84	2.0
S-7	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	326.49	8.55	317.94	2.3
S-7	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	12	326.36	7.88	318.48	1.8
S-7	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	100	326.36	8.30	318.06	1.2
S-7	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	41	326.36	7.70	318.66	NA
S-8	01/25/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	04/16/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	07/24/1991	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	10/18/1991	<50	360f	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.62	317.70	NA
S-8	01/23/1992	<50	90	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	04/27/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	07/17/1992	53	<50	<0.5	1	<0.5	1.8	NA	NA	325.32	NA	NA	NA
S-8	10/16/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	NA	NA	NA
S-8	01/23/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.00	318.32	NA
S-8	04/28/1993	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.77	317.55	NA
S-8	09/22/1993	<50	160	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.67	317.65	NA
S-8	12/08/1993	<50	210	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.76	317.56	NA
S-8	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.66	317.66	NA
S-8	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.78	317.54	NA
S-8	05/05/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.42	317.90	NA
S-8	05/21/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	325.32	7.50	317.82	NA
S-8	05/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	325.32	7.56	317.76	1.6

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard 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 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-8	05/08/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	325.32	7.64	317.68	2.0
S-8	06/27/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	325.32	7.75	317.57	2.3
S-8	04/28/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	325.32	8.02	317.30	1.8
S-8	05/30/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	325.32	7.34	317.98	1.8
S-8	06/17/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	325.32	7.45	317.87	1.8
S-8	05/30/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	14	325.03	7.39	317.64	3.0
S-8	05/03/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	325.03	7.00	318.03	1.0
S-8	01/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	325.03	8.65	316.39	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001 analyzed by EPA Method 8015.

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

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

TOC = Top of Casing Elevation

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

msl = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

WELL CONCENTRATIONS
Shell-branded Service Station
5251 Hopyard 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 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

Notes:

- a = Compounds detected as TEPH appear to be the less volatile constituents of gasoline.
 - b = The concentration reported as TEPH primarily due to the presence of a heavier petroleum product.
 - c = The concentration reported as TEPH due to the presence of a lighter petroleum product.
 - d = Concentrations reported as diesel includes a heavier petroleum product.
 - e = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard gasoline pattern.
 - g = Compounds detected within the chromatographic range of TEPH but not characteristic of the standard diesel pattern.
 - h = The chromatographic pattern of the purgeable hydrocarbons found in the sample is similar to the pattern of weathered gasoline.
 - i = DO reading not taken.
 - k = The hydrocarbon reported in the gasoline range does not match the laboratory standard
- Site surveyed April 16, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.
Beginning May 30, 2003, depth to water referenced to Top of Casing elevation.

Blaine Tech Services, Inc.

January 31, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 050114-WC1
Project: 98995843
Site: 5251 Hopyard Rd., Pleasanton

Dear Mr. Gearhart,

Attached is our report for your samples received on 01/17/2005 11:14
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
03/03/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

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

Sincerely,



Melissa Brewer
Project Manager

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
S-1	01/14/2005 13:09	Water	1
S-2	01/14/2005 12:40	Water	2
S-3	01/14/2005 12:00	Water	3
S-4	01/14/2005 11:42	Water	4
S-5	01/14/2005 12:21	Water	5
S-6	01/14/2005 09:28	Water	6
S-7	01/14/2005 11:17	Water	7
S-8	01/14/2005 10:52	Water	8

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

01/27/2005 10:47

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-1	Lab ID: 2005-01-0438 - 1
Sampled: 01/14/2005 13:09	Extracted: 1/21/2005 15:22
Matrix: Water	QC Batch#: 2005/01/21-1C.68
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	4200	250	ug/L	5.00	01/21/2005 15:22	
Benzene	22	2.5	ug/L	5.00	01/21/2005 15:22	
Toluene	34	2.5	ug/L	5.00	01/21/2005 15:22	
Ethylbenzene	380	2.5	ug/L	5.00	01/21/2005 15:22	
Total xylenes	33	5.0	ug/L	5.00	01/21/2005 15:22	
Methyl tert-butyl ether (MTBE)	100	2.5	ug/L	5.00	01/21/2005 15:22	
Surrogate(s)						
1,2-Dichloroethane-d4	101.8	73-130	%	5.00	01/21/2005 15:22	
Toluene-d8	102.5	81-114	%	5.00	01/21/2005 15:22	

Gas/BTEX/MTBE 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: 050114-WC1

98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B
 Sample ID: S-2 Lab ID: 2005-01-0438 - 2
 Sampled: 01/14/2005 12:40 Extracted: 1/21/2005 15:39
 Matrix: Water QC Batch#: 2005/01/21-1C.68
 Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	250	ug/L	5.00	01/21/2005 15:39	
Benzene	ND	2.5	ug/L	5.00	01/21/2005 15:39	
Toluene	ND	2.5	ug/L	5.00	01/21/2005 15:39	
Ethylbenzene	ND	2.5	ug/L	5.00	01/21/2005 15:39	
Total xylenes	ND	5.0	ug/L	5.00	01/21/2005 15:39	
Methyl tert-butyl ether (MTBE)	270	2.5	ug/L	5.00	01/21/2005 15:39	
Surrogate(s)						
1,2-Dichloroethane-d4	108.5	73-130	%	5.00	01/21/2005 15:39	
Toluene-d8	101.4	81-114	%	5.00	01/21/2005 15:39	

Gas/BTEX/MTBE 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: 050114-WC1

98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	S-3	Lab ID:	2005-01-0438 - 3
Sampled:	01/14/2005 12:00	Extracted:	1/21/2005 15:57
Matrix:	Water	QC Batch#:	2005/01/21-1C.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	94	50	ug/L	1.00	01/21/2005 15:57	
Benzene	4.6	0.50	ug/L	1.00	01/21/2005 15:57	
Toluene	ND	0.50	ug/L	1.00	01/21/2005 15:57	
Ethylbenzene	3.1	0.50	ug/L	1.00	01/21/2005 15:57	
Total xylenes	1.0	1.0	ug/L	1.00	01/21/2005 15:57	
Methyl tert-butyl ether (MTBE)	13	0.50	ug/L	1.00	01/21/2005 15:57	
Surrogate(s)						
1,2-Dichloroethane-d4	106.4	73-130	%	1.00	01/21/2005 15:57	
Toluene-d8	101.8	81-114	%	1.00	01/21/2005 15:57	

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-4	Lab ID: 2005-01-0438 - 4
Sampled: 01/14/2005 11:42	Extracted: 1/21/2005 16:14
Matrix: Water	QC Batch#: 2005/01/21-1C.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	01/21/2005 16:14	
Benzene	ND	0.50	ug/L	1.00	01/21/2005 16:14	
Toluene	ND	0.50	ug/L	1.00	01/21/2005 16:14	
Ethylbenzene	ND	0.50	ug/L	1.00	01/21/2005 16:14	
Total xylenes	ND	1.0	ug/L	1.00	01/21/2005 16:14	
Methyl tert-butyl ether (MTBE)	25	0.50	ug/L	1.00	01/21/2005 16:14	
Surrogate(s)						
1,2-Dichloroethane-d4	110.8	73-130	%	1.00	01/21/2005 16:14	
Toluene-d8	99.9	81-114	%	1.00	01/21/2005 16:14	

Gas/BTEX/MTBE 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: 050114-WC1

98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-5	Lab ID: 2005-01-0438 - 5
Sampled: 01/14/2005 12:21	Extracted: 1/24/2005 15:36
Matrix: Water	QC Batch#: 2005/01/24-1D.69
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	100	ug/L	2.00	01/24/2005 15:36	
Benzene	ND	1.0	ug/L	2.00	01/24/2005 15:36	
Toluene	ND	1.0	ug/L	2.00	01/24/2005 15:36	
Ethylbenzene	ND	1.0	ug/L	2.00	01/24/2005 15:36	
Total xylenes	ND	2.0	ug/L	2.00	01/24/2005 15:36	
Methyl tert-butyl ether (MTBE)	230	1.0	ug/L	2.00	01/24/2005 15:36	
Surrogate(s)						
1,2-Dichloroethane-d4	109.8	73-130	%	2.00	01/24/2005 15:36	
Toluene-d8	102.6	81-114	%	2.00	01/24/2005 15:36	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 050114-WC1

98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B

Sample ID: S-6

Sampled: 01/14/2005 09:28

Matrix: Water

Test(s): 8260B

Lab ID: 2005-01-0438 - 6

Extracted: 1/21/2005 21:42

QC Batch#: 2005/01/21-2C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	01/21/2005 21:42	
Benzene	ND	0.50	ug/L	1.00	01/21/2005 21:42	
Toluene	ND	0.50	ug/L	1.00	01/21/2005 21:42	
Ethylbenzene	ND	0.50	ug/L	1.00	01/21/2005 21:42	
Total xylenes	ND	1.0	ug/L	1.00	01/21/2005 21:42	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/21/2005 21:42	
Surrogate(s)						
1,2-Dichloroethane-d4	109.8	73-130	%	1.00	01/21/2005 21:42	
Toluene-d8	102.4	81-114	%	1.00	01/21/2005 21:42	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-7	Lab ID: 2005-01-0438 - 7
Sampled: 01/14/2005 11:17	Extracted: 1/21/2005 22:03
Matrix: Water	QC Batch#: 2005/01/21-2C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	01/21/2005 22:03	
Benzene	ND	0.50	ug/L	1.00	01/21/2005 22:03	
Toluene	ND	0.50	ug/L	1.00	01/21/2005 22:03	
Ethylbenzene	ND	0.50	ug/L	1.00	01/21/2005 22:03	
Total xylenes	ND	1.0	ug/L	1.00	01/21/2005 22:03	
Methyl tert-butyl ether (MTBE)	41	0.50	ug/L	1.00	01/21/2005 22:03	
Surrogate(s)						
1,2-Dichloroethane-d4	109.1	73-130	%	1.00	01/21/2005 22:03	
Toluene-d8	101.0	81-114	%	1.00	01/21/2005 22:03	

Gas/BTEX/MTBE 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: 050114-WC1

98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Prep(s): 5030B	Test(s): 8260B
Sample ID: S-8	Lab ID: 2005-01-0438 - 8
Sampled: 01/14/2005 10:52	Extracted: 1/21/2005 22:25
Matrix: Water	QC Batch#: 2005/01/21-2C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	01/21/2005 22:25	
Benzene	ND	0.50	ug/L	1.00	01/21/2005 22:25	
Toluene	ND	0.50	ug/L	1.00	01/21/2005 22:25	
Ethylbenzene	ND	0.50	ug/L	1.00	01/21/2005 22:25	
Total xylenes	ND	1.0	ug/L	1.00	01/21/2005 22:25	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/21/2005 22:25	
Surrogate(s)						
1,2-Dichloroethane-d4	110.1	73-130	%	1.00	01/21/2005 22:25	
Toluene-d8	99.4	81-114	%	1.00	01/21/2005 22:25	

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/01/21-1C.68

MB: 2005/01/21-1C.68-047

Date Extracted: 01/21/2005 09:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	01/21/2005 09:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/21/2005 09:47	
Benzene	ND	0.5	ug/L	01/21/2005 09:47	
Toluene	ND	0.5	ug/L	01/21/2005 09:47	
Ethylbenzene	ND	0.5	ug/L	01/21/2005 09:47	
Total xylenes	ND	1.0	ug/L	01/21/2005 09:47	
Surrogates(s)					
1,2-Dichloroethane-d4	101.8	73-130	%	01/21/2005 09:47	
Toluene-d8	101.2	81-114	%	01/21/2005 09:47	

Severn Trent Laboratories, Inc.

01/27/2005 10:47

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

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/01/21-2C.64

MB: 2005/01/21-2C.64-041

Date Extracted: 01/21/2005 18:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	01/21/2005 18:41	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/21/2005 18:41	
Benzene	ND	0.5	ug/L	01/21/2005 18:41	
Toluene	ND	0.5	ug/L	01/21/2005 18:41	
Ethylbenzene	ND	0.5	ug/L	01/21/2005 18:41	
Total xylenes	ND	1.0	ug/L	01/21/2005 18:41	
Surrogates(s)					
1,2-Dichloroethane-d4	102.4	73-130	%	01/21/2005 18:41	
Toluene-d8	99.0	81-114	%	01/21/2005 18:41	

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/01/24-1D.69-002

Water

Test(s): 8260B

QC Batch # 2005/01/24-1D.69

Date Extracted: 01/24/2005 11:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	01/24/2005 11:02	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/24/2005 11:02	
Benzene	ND	0.5	ug/L	01/24/2005 11:02	
Toluene	ND	0.5	ug/L	01/24/2005 11:02	
Ethylbenzene	ND	0.5	ug/L	01/24/2005 11:02	
Total xylenes	ND	1.0	ug/L	01/24/2005 11:02	
Surrogates(s)					
1,2-Dichloroethane-d4	108.8	73-130	%	01/24/2005 11:02	
Toluene-d8	107.8	81-114	%	01/24/2005 11:02	

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 10:47

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/01/21-1C.68

LCS 2005/01/21-1C.68-030

Extracted: 01/21/2005

Analyzed: 01/21/2005 09:30

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.0		25	84.0			65-165	20		
Benzene	23.2		25	92.8			69-129	20		
Toluene	24.6		25	98.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424		500	84.8			73-130			
Toluene-d8	511		500	102.2			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

01/27/2005 10:47

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/01/21-2C.64

LCS 2005/01/21-2C.64-019

Extracted: 01/21/2005

Analyzed: 01/21/2005 18:19

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.4		25	101.6			65-165	20		
Benzene	28.2		25	112.8			69-129	20		
Toluene	29.8		25	119.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	477		500	95.4			73-130			
Toluene-d8	539		500	107.8			81-114			

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01/27/2005 10:47

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/01/24-1D.69

LCS 2005/01/24-1D.69-043

Extracted: 01/24/2005

Analyzed: 01/24/2005 10:43

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	27.5		25	110.0			65-165	20		
Benzene	26.1		25	104.4			69-129	20		
Toluene	27.1		25	108.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	495		500	99.0			73-130			
Toluene-d8	540		500	108.0			81-114			

Severn Trent Laboratories, Inc.

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

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01/27/2005 10:47

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

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

Matrix Spike (MS / MSD) Water QC Batch # 2005/01/21-1C.68

MS/MSD			Lab ID: 2005-01-0439 - 001
MS: 2005/01/21-1C.68-045	Extracted: 01/21/2005	Analyzed: 01/21/2005 12:45	Dilution: 1.00
MSD: 2005/01/21-1C.68-003	Extracted: 01/21/2005	Analyzed: 01/21/2005 13:03	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	25.8	25.6	ND	25	103.2	102.4	0.8	65-165	20		
Benzene	26.1	26.7	ND	25	104.4	106.8	2.3	69-129	20		
Toluene	26.6	26.7	ND	25	106.4	106.8	0.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	444	420		500	88.8	84.0		73-130			
Toluene-d8	504	509		500	100.8	101.8		81-114			

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/01/21-2C.64

MS/MSD

Lab ID: 2005-01-0477 - 001

MS: 2005/01/21-2C.64-014

Extracted: 01/21/2005

Analyzed: 01/21/2005 20:14

Dilution: 1.00

MSD: 2005/01/21-2C.64-036

Extracted: 01/21/2005

Analyzed: 01/21/2005 20:36

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	32.6	37.4	1.54	25	124.2	143.4	14.3	65-165	20		
Benzene	28.6	24.3	ND	25	114.4	97.2	16.3	69-129	20		
Toluene	29.0	28.0	ND	25	116.0	112.0	3.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	506	557		500	101.2	111.4		73-130			
Toluene-d8	503	533		500	100.6	106.6		81-114			

Severn Trent Laboratories, Inc.

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01/27/2005 10:47

Gas/BTEX/MTBE 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: 050114-WC1
98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Batch QC Report

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

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/01/24-1D.69

MS/MSD

Lab ID: 2005-01-0427 - 001

MS: 2005/01/24-1D.69-052

Extracted: 01/24/2005

Analyzed: 01/24/2005 11:52

Dilution: 1.00

MSD: 2005/01/24-1D.69-011

Extracted: 01/24/2005

Analyzed: 01/24/2005 12:11

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	27.9	30.2	0.903	25	108.0	117.2	8.2	65-165	20		
Benzene	28.0	27.8	ND	25	112.0	111.2	0.7	69-129	20		
Toluene	28.9	30.1	ND	25	115.6	120.4	4.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	481	510		500	96.2	102.0		73-130			
Toluene-d8	539	531		500	107.8	106.2		81-114			

Severn Trent Laboratories, Inc.

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01/27/2005 10:47

Gas/BTEX/MTBE 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: 050114-WC1

98995843

Received: 01/17/2005 11:14

Site: 5251 Hopyard Rd., Pleasanton

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

LAB: DIL

SHELL Chain Of Custody Record

99590

Lab Identification (if necessary)
Address:
City, State, Zip

Shell Project Manager to be Invoiced:
Karen Petryna
2005-01-0438

INCIDENT NUMBER (S&E ONLY):
9 8 9 9 5 8 4 3
S&E CRMT NUMBER (TRACK#):

DATE: 1/14/05
PAGE: 1 of 1

CLIENT COMPANY: Blaine Tech Services	NUMBER: BT55	S&E ADDRESS (Street and City): 5251 Hopyard Rd., Pleasanton	GLOBAL ID#: T0600101267
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		USE THE NUMBER TO DISPATCH TO THE REQUESTOR	PHONE FAX: (650) 551-0112
THIRD PARTY CONTACT (Business or PIR Reporting): Leon Gearhart		Requestor Name: Will Crow	E-MAIL: rossst@toxicchem.com
TELEPHONE: 408-573-0555	FAX: 408-573-7771		CONTROL AND PROJECT ID#: 050114-WC1

PLANNED TURN TIME (BUSINESS DAYS):
 1-3 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWRQB BEFORE FORHAT UST AGENCY:

OC&S MTD CONFIRMATION NUMBER: _____ HIGHEST per BORING: _____ ALL

SPECIAL INSTRUCTIONS OR NOTES: _____ CHECK BOX IF EOD IS NOT NEEDED:

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (0.0210 - 5 ppb RL)	MTBE (0.2500 - 0.5 ppb RL)	Oxygenates (S) by (0.0000)	Ethanol (0.0000)	Methanol	EDS & 1,2-DCA (0.0000)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes <i>2nd</i>
		DATE	TIME											
	S-1	1/14	1300	H ₂ O	3HC1	X	X	X						
	S-2		1240			X	X	X						
	S-3		1200			X	X	X						
	S-4		1142			X	X	X						
	S-5		1221			X	X	X						
	S-6		0928			X	X	X						
	S-7		1117			X	X	X						
	S-8		1052	V	V	X	X	X						

Requested by (Signature): <i>Will Crow</i>	Received by (Signature): <i>[Signature]</i>	Date: <u>1/17/05</u>	Time: <u>1114</u>
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: <u>01/17/05</u>	Time: <u>1658</u>
Requested by (Signature): <u>1/17/05 1658</u>	Received by (Signature): <i>[Signature]</i>	Date:	Time:

S&E CRMT 01/14/05 09:00

WELLHEAD INSPECTION CHECKLIST

Date 1/14/05 Client Shell
Site Address 5251 Hopyard Rd., Pleasanton
Job Number 050114-WC1 Technician Will

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)
S-1	X							
S-2	X							
S-3	X							
S-4	X							
S-5	X							
S-6	X							
S-7		X				X		
S-8	X							
V-1	X							

NOTES: _____

REPAIR DATA SHEET

Client Shell Date 12/30/04

Site Address 5251 Hayward Rd., Pleasanton

Job Number 041230-M61 Technician MG

Repair Location V-1

Deficiencies Corrected Threaded PVC fitting @ TOC, threaded cap w/ sensor, cut off sensor, added modified 3" pvc fitting new 3" cap, lock. Installed ORCS

Materials Used modified 3" pvc fitting, 3" cap, lock

Repair Location ~~MG~~

Deficiencies Corrected _____

Materials Used _____

Repair Location S-1

Deficiencies Corrected No cap or lock, casing damaged @ top. Lowered casing 0.38', added new 3" cap + lock.

Materials Used 3" cap, lock

Repair Location _____

Deficiencies Corrected _____

Materials Used _____

Repair Location _____

Deficiencies Corrected _____

Materials Used _____

Repair Location _____

Deficiencies Corrected _____

Materials Used _____

WELLHEAD INSPECTION CHECKLIST

Client Shell Date 12/30/04
 Site Address 5251 Hopyard Rd., Pleasanton
 Job Number 041230-M61 Technician Ma

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted

NOTES: New ORCs installed in V-1.

SITE INSPECTION CHECKLIST

Client Shell Date 12/30/04
 Site Address 5251 Hopwood Rd., Pleasanton
 Job Number 041230 - M61 Technician [Signature]
 Site Status Shell Branded Station Vacant Lot Other

- Inspected / ~~Labeled~~ ^{raining} / 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)
Not securable by design - S-1, S-3, S-2, S-4, S-6, S-7, S-8

PROJECT COORDINATOR ONLY

Checklist Reviewed U 1/3/05 Notes
Initial/Date

WELL GAUGING DATA

Project # 050114-WC1 Date 1/14/05 Client Shell

Site 5251 Hopyard 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 TOC
S-1	3					7.10	29.78	↓
S-2	3					7.88	24.19	
S-3	3					8.00	25.01	
S-4	3					8.17	24.32	
S-5	3					8.43	24.60	
S-6	3					7.38	26.17	
S-7	3					7.70	23.28	
S-8	3					8.65	23.35	
V-1	3	gauged w/ ORC in well				6.88	—	

SHELL WELL MONITORING DATA SHEET

BTS #: 050114-wc1	Site: 5251 Hayward Rd, Pleasanton
Sampler: WC	Date: 1/14/05
Well I.D.: S-1	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): 2978	Depth to Water (DTW): 7.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): <input checked="" type="radio"/> YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.64	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible

Water: Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

8.4 (Gals.) X 3 = 25.2 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1300	61.5	7.8	1613	475	9	odor/clear
1302	65.2	7.8	1561	520	18	"/cloudy
1304	65.7	7.7	1564	728	26	"/"/

Did well dewater? Yes No Gallons actually evacuated: 26

Sampling Date: 1/14/05 Sampling Time: 1309 Depth to Water: 11.04

Sample I.D.: S-1 Laboratory: STD Other _____

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

EB I.D. (if applicable): @ _____ 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:	0.58 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>050114-well</u>	Site: <u>3251 Hayward St, Pleasanton</u>
Sampler: <u>W</u>	Date: <u>1/14/05</u>
Well I.D.: <u>S-2</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): <u>24.19</u>	Depth to Water (DTW): <u>7.88</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): <input type="radio"/> YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.14</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

$6 \text{ (Gals.)} \times 3 = 18 \text{ Gals.}$ 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1233	61.0	7.6	2869	157	6	clear
1234	62.9	7.6	3051	121	12	clear
1235	63.6	7.6	3164	97	18	clear

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Date: 1/14/05 Sampling Time: 1240 Depth to Water: 8.32

Sample I.D.: S-2 Laboratory: STX Other _____

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

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 #: 050114-WC1	Site: 5251 Hayward Rd, Hayward
Sampler: WC	Date: 1/14/05
Well I.D.: S-3	Well Diameter: 2 <u>6</u> 4 6 8
Total Well Depth (TD): 25.01	Depth to Water (DTW): 8.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.40	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing
 Other: _____

$6.3 \text{ (Gals.)} \times 3 = 18.9 \text{ Gals.}$ 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1154	62.6	7.2	2583	69	7	clear
1155	63.4	7.2	2560	76	13	"
1156	63.8	7.1	2541	82	19	"

Did well dewater? Yes No Gallons actually evacuated: 19

Sampling Date: 1/14/05 Sampling Time: 1200 Depth to Water: 10.78

Sample I.D.: S-3 Laboratory: STD Other: _____

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

EB I.D. (if applicable): _____ @ _____ 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>050114-WC1</u>	Site: <u>5251 Hayward Rd, Pleasanton</u>
Sampler: <u>WC</u>	Date: <u>1/14/05</u>
Well I.D.: <u>5.4</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): <u>24.32</u>	Depth to Water (DTW): <u>8.17</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVO <input type="radio"/> Grade	D.O. Meter (if req'd): <input type="radio"/> YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.40</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

$\frac{6.0 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{18.0}{\text{Calculated Volume}} \text{ Gals.}$	<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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1135	61.2	7.4	2134	91	6	clear
1136	64.4	7.5	1474	147	12	"
1137	65.7	7.5	1406	52	18	"

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Date: 1/14/05 Sampling Time: 1142 Depth to Water: 11.21

Sample I.D.: 54 Laboratory: STI Other _____

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

EB I.D. (if applicable): _____ @ _____ 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>050114-001</u>	Site: <u>5251 Hayward Rd, Pleasanton</u>
Sampler: <u>WC</u>	Date: <u>1/14/05</u>
Well I.D.: <u>S-5</u>	Well Diameter: 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): <u>24.60</u>	Depth to Water (DTW): <u>8.43</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>11.66</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

$\underline{6} \text{ (Gals.)} \times \underline{3} = \underline{18} \text{ Gals.}$ 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1214	60.5	7.2	1466	175	6	clear
1215	62.1	7.2	1367	209	12	"
1216	62.8	7.2	1326	263	18	"

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Date: 1/14/05 Sampling Time: 1221 Depth to Water: 10.89

Sample I.D.: S-5 Laboratory: SNL Other _____

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

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 #: 050114-WC1	Site: 5251 Hayward Rd., Pleasanton
Sampler: WC	Date: 1/14/05
Well I.D.: 2" S-G	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): 26.17	Depth to Water (DTW): 7.38
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.14	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible

Water: Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

7.0 (Gals.) X 3 = 21 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0905	56.3	7.0	N/A	72	7	clear
0913	METER	MAFUNCTIONING		42	14	clear
0920	N/A	7.0	N/A	40	21	"

Did well dewater? Yes No Gallons actually evacuated: 21

Sampling Date: 1/14/05 Sampling Time: 0928 Depth to Water: 7.49

Sample I.D.: S-G Laboratory: STL Other _____

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

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 #: 050114-WC1	Site: 5251 Hayward Rd., Pleasanton
Sampler: WC	Date: 1/14/05
Well I.D.: S-7	Well Diameter: 2 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth (TD): 23.28	Depth to Water (DTW): 7.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.82	

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: _____

5.8 (Gals.) X 3 = 17.6 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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1110	61.8	7.1	10.26 mS	40	6	clear
1111	62.4	7.1	10.24 mS	42	12	"
1112	66.2	7.0	9.48 mS	105	18	"

Did well dewater? Yes No Gallons actually evacuated: 18

Sampling Date: 1/14/05 Sampling Time: 1117 Depth to Water:

Sample I.D.: S-7 Laboratory: ST Other _____

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

EB I.D. (if applicable): @ _____ 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>050114-WC1</u>	Site: <u>5251 Hopyard Rd, Pleasanton</u>
Sampler: <u>WC</u>	Date:
Well I.D.: <u>S-8</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth (TD): <u>23.35</u>	Depth to Water (DTW): 10.7 <u>8.65</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(VOC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>11.59</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

$\frac{5.4 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 16.2 \text{ Gals. Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (µS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1046	62.8	6.6	10.17	86	6	clear
1047	64.3	6.7	10.06	43	11	"
1048	65.7	6.8	13.57	39	17	"

Did well dewater? Yes No Gallons actually evacuated: 17

Sampling Date: 1/14/05 Sampling Time: 1052 Depth to Water: 9.43

Sample ID.: S-8 Laboratory: STD Other _____

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

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