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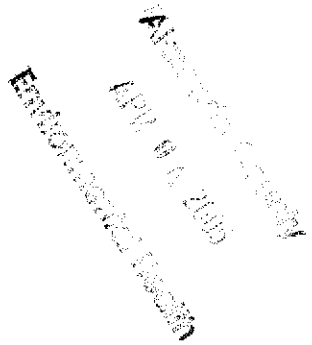
March 31, 2005

Roseanna Garcia-La Grille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Interim Remediation Report
Shell-branded Service Station
285 Hegenberger Road
Oakland, California
SAP Code 135691
Incident No. 98995749
ACHCSA # 530



Dear Ms. Garcia-La Grille:

Attached for your review and comment is a copy of the *Interim Remediation Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

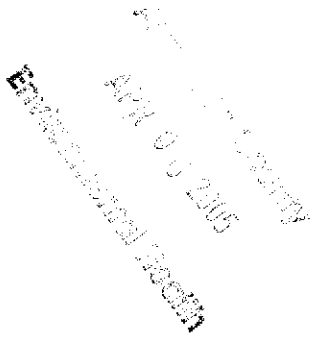
Denis L. Brown
Sr. Environmental Engineer

CAMBRIA

March 31, 2005

Rosanna Garcia La-Grille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Interim Remediation Report**
Shell-branded Service Station
285 Hegenberger Road
Oakland, California
Incident #98995749
Cambria Project # 247-0734-007



Dear Ms. Garcia-La Grille:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) has prepared this *Interim Remediation Report* for the subject site. This report was prepared to summarize interim remedial activities proposed in Cambria's October 26, 2004 *Interim Remediation Work Plan*. All activities conducted were performed in accordance with Alameda County Health Care Services Agency guidelines.

Presented below is a summary of the site background and the interim remedial activities.

SITE BACKGROUND

Site Description: This operating Shell-branded service station is located at the Hegenberger Road and Leet Drive intersection in Oakland, California (Figures 1 and 2). The surrounding area is of mixed commercial and industrial use. Oakland International Airport is located approximately 1 mile west of the site. The property was purchased prior to 1960, and the service station was built between 1966 and 1967. Prior to 1966, no buildings existed on site. Aerial photographs prior to 1960 indicate that the area was reclaimed from a wetlands area starting in 1947.

Three underground storage tanks (USTs), two product dispenser islands, a station building, and a car wash are present on site. Eight groundwater monitoring wells are currently located on site, and three groundwater monitoring wells are located in the Hegenberger Road median, to the south of the site. There are also three dual-completion soil vapor extraction/air sparge (SVE/AS) wells, and three co-axial SVE/AS wells on site. SVE/AS equipment resides in a cargo container located in the site's north corner. The SVE/AS system is currently off and will be decommissioned in 2005.

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The following sections summarize investigation and remediation activities. However, Cambria's files prior to 1993 are limited. Summaries of site activities prior to 1993 are from the November 5, 1993 *Site Investigation Report* by Pacific Environmental Group, Inc. (PEG) of Pasadena, California.

1989-1990 Site Investigations: Between 1989 and 1990, Converse Environmental West (CEW) supervised the installation of 10 groundwater monitoring wells (MW-1 through MW-10) and 13 soil borings (SB-1 through SB-13). Attachment A includes a figure which shows the boring locations. Table 1 summarizes available well data. The maximum gasoline concentrations were detected in boring SB-5 at a depth of 2 feet below grade (fbg) at a concentration of 31,000 parts per million (ppm). The boring was located east of the former USTs. The maximum benzene concentration was also detected in this boring at a concentration of 4.7 ppm.

1990 Site Investigation: During August and September 1990, CEW conducted an off-site soil investigation of the adjacent property (295 Hegenberger Road) occupied by Rollins Trucking. Soil borings SG-1 to SG-17 were advanced. A maximum concentration of 4,000 ppm total petroleum hydrocarbons as gasoline (TPHg) was found in soil from boring SG-2 at an approximate depth of 5.5 fbg.

1991 Soil Gas Survey: In July 1991, CEW conducted a soil gas survey along Hegenberger Road to investigate the presence of hydrocarbons in the City of Oakland utility trench (see Figure 3). Soil gas concentrations ranged from 32 to 62 ppm TPHg.

1992 Equipment Removal: On February 12, 1992, Gettler-Ryan Inc. of Dublin, California sampled the excavations of the former oil/water separator and the three former hydraulic lifts. Additional excavation was performed in April and May 1992. PEG collected closure samples which contained TPHg and oil and grease concentrations up to 1,800 and 6,800 ppm, respectively.

1993 Site Investigation: On June 8, 9, and 10, 1993, PEG supervised the installation of three groundwater monitoring wells (MW-11 through MW-13) and four dual-completion SVE/AS wells (VEW-2 through VEW-5). The monitoring well borings were advanced to a depth of 15.5 fbg. The SVE/AS well borings were advanced to depths ranging from 8.5 to 10 fbg. Soil samples collected from groundwater monitoring well borings did not contain petroleum hydrocarbons except for the 5.5 fbg sample from MW-11, which contained 0.008 ppm toluene. The maximum TPHg concentration was detected in the 5 fbg sample collected from VEW-3 at a concentration of 1,900 ppm. The maximum benzene concentration was detected at a concentration of 6.4 ppm in the 5 fbg sample collected from well VEW-2. The maximum total petroleum hydrocarbons as diesel (TPHd) concentration was detected in well VEW-3 at a concentration of 560 ppm. PEG's November 5, 1993 *Site Investigation Report* presented investigation results.

Soil Vapor Extraction (SVE) 1993-1995: SVE began on August 30, 1993, and was discontinued in February 1995 after influent TPHg and benzene concentrations reached asymptotic levels, corresponding to negligible hydrocarbon removal. A February 9, 1995 letter from PEG states that the SVE system was shut down due to low influent concentrations and high groundwater conditions. PEG's June 20, 1995 quarterly report states that the system would remain shut down until the groundwater elevations decreased to approximately 5 to 6 fbg.

1998 UST and Dispenser Upgrade: In July 1998, Paradiso Mechanical, Inc. (Paradiso) of San Leandro, California upgraded UST and dispenser equipment. On July 29, 1998, Cambria collected soil samples from native soil beneath dispenser #1 and dispenser #2 at depths of approximately 1.5 and 2.5 feet, respectively. Samples were not collected beneath dispenser #3 and dispenser #4 because only rocky fill material, and not native soil, was encountered at 3 fbg. The highest hydrocarbon concentration was 790 milligrams per kilogram (mg/kg) TPHg in sample D-1. The highest benzene concentration was 2.0 mg/kg in sample D-1. Cambria's October 13, 1998 *Dispenser Soil Sampling Report* presents results.

1999 Site Investigation, Utility Survey, and SVE Test: On March 18, 1999, Cambria supervised the advancement of three soil borings by means of a hand auger and Geoprobe®. Boring SB-1 was advanced to a depth of 11.5 fbg, with the first 9.5 feet advanced using a hand auger. Boring SB-2 was drilled to a total depth of 12.0 fbg. Boring SB-3 was advanced to a total depth of 17.0 fbg. The borings were located between the site and the 54-inch storm drain running along the westbound lanes of Hegenberger Road. The maximum TPHg concentration identified in soil during this investigation was 27.6 ppm in boring SB-3 from a depth of 9.0 fbg. The maximum TPHd concentration in soil of 35.8 ppm was detected in SB-3 at a depth of 10.5 fbg. No benzene or methyl tertiary butyl ether (MTBE) was detected in soil from any of the three borings. The maximum TPHg, TPHd and benzene concentrations identified in groundwater were detected in SB-3 at concentrations of 16,500 parts per billion (ppb), 5,080 ppb and 268 ppb, respectively. No TPHg, or benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in groundwater at SB-1.

City utility maps indicated that sanitary sewers run beneath the site, while a 54-inch storm drain runs parallel to the southeast property line under the southwest bound lanes of Hegenberger Road. Cambria performed a site reconnaissance which revealed that the 8-inch sanitary sewer running from the open water channel (southwest of the site) is a pressurized pipeline that does not slope toward the channel as previously thought. Because of this discovery, the boring locations were revised, with the focus shifting to the area between the site and the 54-inch storm drain. No hydrocarbons were detected in backfill soil collected from boring SB-1 near the vault connecting two 8-inch sanitary sewer lines. Low diesel and MTBE levels were detected in groundwater

collected from SB-1. However, it did not appear that this 8-inch sewer pipe serves as a conduit for contaminant transport to the water channel.

Soil boring and groundwater monitoring data suggested that either the storm drain intercepts and diverts groundwater flow or the plume has stabilized before it reached the down gradient monitoring wells. The mass transport of contaminants of concern within the utility corridors was estimated using a protocol established by the Regional Water Quality Control Board – San Francisco Bay Region for a similar situation at the San Francisco International Airport. The final discharge concentrations for benzene and MTBE were estimated at 23 and 13 ppb, respectively. These estimated concentrations are at or below the SFIA Order No. 95-136 saltwater ecological protection zone Tier 1 standard of 71 ppb for benzene, and the proposed guideline of 13 ppb for MTBE. The final discharge concentration for TPHg was estimated at 2,680 ppb, which exceeded the SFIA Order No. 95-136 saltwater ecological protection zone Tier 1 standard of 100 ppb for TPHg. However, Cambria anticipated the amount of TPHg that reaches the bay will be significantly less, in consideration of the dilution expected from upstream along the creek and the significant distance (over one mile) to the Bay.

On November 3, 1999, Cambria performed short-term SVE testing of four existing SVE wells for approximately 2 hours each, followed by a long-term test of wells VW-1 and VW-4 for approximately 5 days. Influent TPHg concentrations ranged from 259 to 1,410 parts per million by volume (ppmv). Benzene concentrations ranged from 2.3 to 32.3 ppmv. MTBE concentrations ranged from 26.4 to 44.2 ppmv as reported by EPA Method 8020. Vapor extraction flow rates ranged from 0 to 26 standard cubic feet per minute (scfm) per well based on applied vacuum ranging from 45 to 60 inches of water, resulting in a TPHg removal rate of 0.95 to 2.1 pounds per day (lbs/day) per well. During long-term testing, vapor extraction flow rates ranged from 18.0 to 22.7 scfm (combined extraction from wells VW-1 and VW-4). The TPHg removal rate during the long-term test ranged from 2.13 to 5.95 lbs/day. The total mass of TPHg removed during the test is estimated to be 18.66 pounds. The total mass of MTBE and benzene removed during the test is estimated to be 2.33 pounds and 0.97 pounds respectively.

Cambria's May 12, 1999 *Subsurface Investigation and Vapor Extraction Test Report* presents results of these activities.

2000 SVE/AS Well Installation: On June 28, 2000, Cambria supervised the installation of three co-axial SVE/AS wells along the southeast side of the site (Figure 2) to facilitate remediation. The 2-inch diameter inner air sparge (AS) casing extends to 15 fbg and is screened between 13 and 15 fbg. A sand filter pack surrounds the AS casing between 12 and 15 fbg, and a bentonite seal surrounds the inner pipe between 10 and 12 fbg. The 4-inch-diameter outer SVE casing extends to 10 fbg and is screened between 3 and 10 fbg. A sand filter pack surrounds the outer casing

between 3 and 10 fbg, and a bentonite seal surrounds the outer pipe between 2 and 3 fbg. The maximum TPHg concentration identified during this investigation was 1,800 ppm in boring VEW-7/AS-3 from a depth of 6.5 fbg. The maximum MTBE concentration of 2.61 ppm was detected in VEW-7/AS-3 at a depth of 6.5 fbg. The maximum benzene concentration of 13.2 ppm was detected in VEW-6/AS-2 at a depth of 5.5 fbg. Cambria's September 12, 2000 *Soil Vapor and Air Sparge Well Installation Report* presents these results.

SVE/AS 2002-2003: SVE/AS began on March 25, 2002 and was discontinued on February 14, 2003 after influent TPHg, MTBE, and benzene concentrations reached asymptotic levels corresponding to negligible additional hydrocarbon removal. Vapor extraction flow rates ranged from 4.7 to 39.4 scfm. The TPHg removal rate ranged from 0.0 to 0.49 lbs/hour. The total mass of TPHg removed is estimated to be 99.26 pounds. The total mass of MTBE and benzene removed is estimated to be 0.18 pounds and 0.48 pounds respectively.

2004 Well Survey: Cambria conducted a well survey in March 2004 at the request of Shell. Review of the California State Department of Water Resources well logs and the California State Water Resources Control Board Geotracker system identified six water-producing wells within approximately a ½-mile radius of the site. Figure 1 shows the locations of the identified wells. Three wells were identified as agricultural/irrigation wells. One well was identified as an industrial well. The use of two wells could not be determined, and the locations of all the wells could not be verified in the field.

2004 Fuel System Upgrade and Over-Excavation: Paradiso upgraded fuel dispensers and piping in late June through early July 2004. Paradiso upgraded under-dispenser containment to the dispenser locations adjacent to product, vapor and vent lines. Paradiso removed and replaced all fuel and vent piping from the dispensers to the UST complex. Enhanced vapor recovery equipment on the UST fuel fill port sumps was installed.

On April 22, 2004, nine soil samples (P-1-5' through P-5-5' and D-1-5' through D-4-5') were collected at depths ranging from 4 to 5 fbg. Laboratory analytical results indicated the presence of hydrocarbons in soils in the piping trenches. Therefore, at Shell's direction, on July 6, 2004, Paradiso removed additional soil from the piping trenches, and Cambria collected seven additional soil samples (P-6-6.5' through P-12-6.5') from a depth of approximately 6.5 fbg.

TPHd was detected in all nine of the April 22, 2004 samples in concentrations ranging from 8 ppm in sample D-1-5' to 1,800 ppm in sample P-1-5'. However, the laboratory noted that the hydrocarbons reported as diesel were in the early diesel range and did not match the laboratory's diesel standard. TPHg was detected in six of the nine samples at concentrations ranging from 120 ppm in sample P-4-5' to 7,200 ppm in sample P-1-5'. Benzene was detected in three of the nine samples at concentrations ranging from 0.51 ppm in sample P-3-5' to 3.3 ppm in sample P-5-5'.

MTBE was detected in six of the nine samples at concentrations ranging from 0.0052 ppm in sample D-2-5' to 40 ppm in sample P-4-5'.

TPHd was detected in all seven of the July 6, 2004 samples in concentrations ranging from 12 ppm in sample P-11-6.5' to 170 ppm in sample P-8-6.5'. Again, the laboratory noted that the hydrocarbons reported as diesel were in the early diesel range and did not match the laboratory's diesel standard. TPHg was detected in six of the seven samples at concentrations ranging from 120 ppm in sample P-10-6.5' to 6,500 ppm in sample P-8-6.5'. Benzene was detected in four of the seven samples at concentrations ranging from 1.0 ppm in sample P-7-6.5' to 3.6 ppm in sample P-6-6.5'. MTBE was detected in six of the seven samples at concentrations ranging from 1.2 ppm in sample P-7-6.5' to 21 ppm in sample P-9-6.5'. Cambria's August 4, 2004 *Dispenser and Piping Upgrade Sampling Report* presented these results and activities.

Groundwater Monitoring 1989 - Present: Groundwater has been monitored on site since February 1989 in wells MW-1, MW-2, and MW-3. Since then, 10 more monitoring wells have been installed and monitored. Maximum historical chemical concentrations in groundwater are 140,000 ppb TPHg in well MW-7 (April 10, 1991), 29,000 ppb benzene in well MW-7 (October 8, 1991), and 32,000 ppb MTBE in well MW-1 (June 8, 1998). In the most recent groundwater monitoring event (January 10, 2005), monitoring well MW-10 contained 120,000 ppb TPHg, 21,000 ppb benzene, and 16,000 ppb MTBE. Attachment B presents historical groundwater monitoring data.

SITE CONDITIONS

Soil Lithology: The site is located within the East Bay Plain area of Alameda County, approximately 3 miles west of the Hayward Fault. The East Bay Plain area is characterized by Quaternary age Bay Mud composed of unconsolidated plastic clay and silty clay, rich in organic material with some lenses of silt and sand. Beneath the Bay Mud deposits lie unconsolidated younger and older alluvial deposits (Hickenbottom and Muir, 1988). Lithology consists primarily of gravelly sands of high estimated permeability to the approximate depth of 9 to 11 fbg. The sands are underlain by silty clay of low estimated permeability to approximately 14 fbg. A silty sand layer was encountered between 14 and 16 fbg. Attachment A presents all available boring logs.

Hydrogeology: The Older Alluvium is the dominant aquifer in the East Bay Plain area west of the Hayward Fault. Regional groundwater flow is to the west-southwest toward San Francisco Bay. The site elevation is approximately 10 feet above mean sea level. Groundwater in the vicinity is

located at depths between 4 and 8 fbg. Based on quarterly groundwater monitoring data, groundwater generally flows toward the southeast. The nearest natural drainage is San Leandro Creek, located approximately 200 feet south of the site.

INTERIM REMEDIATION

As identified in prior investigations, the primary area of groundwater and soils impacted by petroleum hydrocarbons was immediately southeast of the dispenser islands and USTs. Operation of the SVE/AS system to its cost-effective limit has remediated this area to a large degree. Hydrocarbon concentrations in wells VEW-5 through VEW-7 remain low relative to concentrations prior to SVE/AS operation. The 2004 soil over-excavation activities following the fuel system upgrade work were carried out to their practical limit and removed additional impacted soils. The over-excavation work reduced the potential for soils to further impact groundwater in this area.

Hydrocarbon concentrations in groundwater on the edges of this area remain elevated, as indicated by groundwater monitoring data from wells MW-1, MW-9, and MW-10. It does not appear that the remedial extent of the SVE/AS system reached to these wells. The recent over-excavation work may help to decrease hydrocarbon concentrations in well MW-1, but may not affect concentrations in wells MW-9 and MW-10.

The hydrocarbon mass remaining in soils and groundwater near wells MW-1, MW-9, and MW-10 is assumed to be small, based on available data from historical investigation and remediation activities and on the location of these wells on the periphery of the presumed source area. Rather than expanding and restarting the existing SVE/AS system, Cambria recommended and implemented interim dual-phase extraction (DPE) to cost-effectively remediate the residual hydrocarbons in this fringe area. DPE should be more effective since hydrocarbon-impacted saturated soils will be dewatered and exposed to SVE. Between November 15 and November 24, 2004, Cambria conducted DPE from wells MW-1, MW-9 and MW-10.

Health and Safety Plan: A site-specific Health and Safety Plan was prepared and maintained on site throughout the DPE activities.

Permitting: DPE was conducted under the authorization of an existing Bay Area Air Quality Management District (BAAQMD) permit to operate vapor abatement equipment at the subject site (BAAQMD Plant # 13359). The BAAQMD was notified of DPE activities on October 21, 2004. BAAQMD required no additional conditions.

SVE Equipment: A Solleco trailer-mounted liquid-ring pump with electric catalytic oxidizer (Solleco unit) was used as the extraction and vapor abatement device during DPE. A 150-kilowatt generator powered the Solleco unit. A throttle valve was used to control the applied vacuum and vapor extraction flow rate. The Solleco unit is equipped with an auto-dilution valve and a manual dilution valve to further control vacuum and flow, as well as to maintain the oxidizer temperatures within the specified range.

Field vapor concentrations were measured with a Horiba model MEXA554JU organic vapor analyzer. A Thomas Industries model 907CDC18F vacuum pump was used to collect vapor samples in one-liter Tedlar bags. Magnehelic differential pressure gauges were used to monitor vacuum induced in nearby wells and at the wellhead of the extraction point.

A down-well "stinger" installed through an air-tight well seal to within 1 foot from the bottom of the well allowed dewatering and SVE of saturated soils. The extracted groundwater was stored in two 500-gallon aboveground storage tanks on site, and transported to Shell's Refinery in Martinez, California for recycling.

Data Collection and Sampling: Data was collected on standard forms. Throughout DPE, Cambria measured the applied vacuum, air flow, and volatile organic vapor concentration. Vacuum influence in nearby wells was measured during DPE from well MW-10. Data was collected at 10 to 30 minute intervals for 6 to 8 hours a day, after which the equipment was set to operate overnight. Vapor samples for laboratory analysis were collected in one-liter tedlar bags at the beginning and end of each day, and before and after moving the DPE equipment between wells.

Analyses: State-certified Severn Trent Laboratories (STL) of Pleasanton, California analyzed vapor samples by EPA Method 8260B to determine TPHg, BTEX, and MTBE concentrations and to verify field measurements.

DPE Results

Table 2 summarizes SVE data. Field data sheets are presented as Attachment C. Laboratory analytical results are presented as Attachment D. Details of November 2004 interim remediation are presented below:

November 15, 2004: DPE from well MW-10 began at 9:45 on November 15. The depth to groundwater was measured at 5.21 feet from the top of the well casing in well MW-10 at the outset of DPE. After the well was dewatered, Cambria incrementally increased (stepped) the applied vacuum in order to determine the maximum air flow rate and the optimal operation setting.

Applied vacuum readings were measured at the wellhead. An average wellhead vacuum of 190.6 inches of water column gauge (WC) was established by a liquid-ring pump generated vacuum

ranging from approximately 13 to 20 inches of mercury gauge (Hg). The maximum wellhead vacuum measured was 204.0-inches WC. However, the wellhead vacuum was above the upper limit of the vacuum gauge at 11:00 and 11:10. The extraction flow rate ranged from 0.6 to 49.7 scfm and averaged 9.9 scfm. The well screens in observation wells remained submerged or nearly submerged throughout DPE. As a result, vacuum radius of influence measurements indicated little or no vacuum at the observation wells. DPE removed approximately 35 gallons of groundwater on this day.

Vapor samples were collected at the wellhead for laboratory analysis. The initial vapor sample collected at 11:45 contained 2,100 ppmv TPHg, 51 ppmv benzene, and 8.7 ppmv MTBE. The vapor sample collected at the end of the day (13:30) contained 2,500 ppmv TPHg, 69 ppmv benzene, and 15 ppmv MTBE. The Solleco unit was set to operate overnight to maximize the remedial effort.

November 16, 2004: DPE from well MW-10 continued through the day. An average wellhead vacuum of 196.6 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 16 to 24 inches Hg. The maximum wellhead vacuum measured was 218.1 inches WC. However, the wellhead vacuum was above the upper limit of the vacuum gauge at 10:15 am. The extraction flow rate ranged from 3.1 to 6.1 scfm and averaged 5.2 scfm. Vacuum influence was monitored in wells MW-3, MW-4, MW-8, and VEW-7, but vacuum was not observed. DPE removed approximately 47.5 gallons of groundwater since startup.

A vapor sample collected at 8:45 contained 170 ppmv TPHg, 3.9 ppmv benzene, and 0.32 ppmv MTBE. The vapor sample collected near the end of the day (13:45) contained 580 ppmv TPHg, 13 ppmv benzene, and 1.2 ppmv MTBE. The Solleco unit was set to operate overnight to maximize the remedial effort.

November 17, 2004: DPE from well MW-10 was discontinued at 7:30. Between 7:00 and 7:30, an average wellhead vacuum of 188.7 inches WC was established by a liquid-ring pump generated vacuum of approximately 18.5 inches Hg. The extraction flow rate ranged from 2.8 to 3.9 scfm and averaged 3.5 scfm. A vapor sample collected from well MW-10 at 7:15 contained 1,600 ppmv TPHg, 26 ppmv benzene, and 4.1 ppmv MTBE. DPE removed approximately 65 gallons of groundwater from well MW-10 since startup.

DPE from well MW-9 began at 8:40 on November 17. The depth to groundwater was measured at 5.42 feet from the top of the well casing in well MW-9 at the outset of DPE. After the well was dewatered, Cambria incrementally increased (stepped) the applied vacuum in order to determine the maximum air flow rate and the optimal operation setting.

An average wellhead vacuum of 146.8 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 10 to 23 inches Hg. The maximum wellhead vacuum measured was 191.7-inches WC. The extraction flow rate ranged from 0.6 to 5.4 scfm and averaged 1.5 scfm. Since prior observations showed no vacuum influence, Cambria did not measure vacuum in the surrounding wells. The extracted volume was not measured on this day, but was observed to be low.

A vapor sample collected from MW-9 at 10:30 contained 23 ppmv TPHg and 0.82 ppmv benzene. MTBE was not detected at a laboratory detection limit of 0.14 ppmv. The vapor sample collected near the end of the day (14:30) contained 24 ppmv TPHg and 0.44 ppmv benzene. MTBE was not detected at a laboratory detection limit of 0.14 ppmv. The Solleco unit was set to operate overnight to maximize the remedial effort.

November 18, 2004: DPE from well MW-9 was discontinued at 10:00. Between 7:30 and 10:00, the liquid-ring pump generated vacuum ranged from approximately 20 to 20.5 inches Hg. However, the wellhead vacuum was above the upper limit of the vacuum gauge and was estimated to be approximately 200.0 inches WC. The extraction flow rate ranged from 0.6 to 2.8 scfm and averaged 1.5 scfm. A vapor sample collected from well MW-9 at 9:30 did not contain TPHg, benzene, or MTBE above detection limits of 14, 0.31 and 0.14 ppmv, respectively. DPE removed a negligible volume of groundwater from well MW-9.

DPE from well MW-1 began at 10:30 on November 18. An average wellhead vacuum of 138.5 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 15.5 to 23 inches Hg. The maximum wellhead vacuum measured was 199.1 inches WC. The extraction flow rate ranged from 0.4 to 5.9 scfm and averaged 2.8 scfm. Since prior observations showed no vacuum influence, Cambria did not measure vacuum in the surrounding wells. Approximately 175 gallons of groundwater was removed from well MW-1 by DPE since startup.

A vapor sample collected from MW-1 at 11:15 contained 2,600 ppmv TPHg, 24 ppmv benzene, and 2.7 ppmv MTBE. The vapor sample collected near the end of the day (15:00) contained 1,000 ppmv TPHg and 19 ppmv benzene. MTBE was not detected at a laboratory detection limit of 1.4 ppmv. The Solleco unit was set to operate overnight to maximize the remedial effort.

November 19, 2004: DPE from well MW-1 was discontinued at 10:50. Between 8:00 and 10:50, an average wellhead vacuum of 119.4 inches WC was established by a liquid-ring pump generated vacuum ranging from approximately 16 to 24.5 inches Hg. The maximum wellhead vacuum measured was 167.4 inches WC. The extraction flow rate ranged from 3.3 to 26.0 scfm and averaged 10.3 scfm. A vapor sample collected from well MW-1 at 9:00 contained 1,100 ppmv TPHg, 9.7 ppmv benzene, and 1.5 ppmv MTBE. A vapor sample collected from well MW-1 at

10:50 contained 900 ppmv TPHg, 9.3 ppmv benzene, and 1.5 ppmv MTBE. DPE removed approximately 730 gallons of groundwater from well MW-1 since startup.

Cambria resumed DPE from well MW-10 at 12:00 on November 19. An average wellhead vacuum of 120.8 inches WC was established by a liquid-ring pump generated vacuum of approximately 18.5 inches Hg. The maximum wellhead vacuum measured was 139.5-inches WC. The extraction flow rate ranged from 5.3 to 7.6 scfm and averaged 6.6 scfm. Vacuum influence was not measured in the surrounding wells.

A vapor sample collected at 12:55 contained 2,600 ppmv TPHg, 47 ppmv benzene, and 17 ppmv MTBE. The Solleco unit was set to operate throughout the weekend to maximize the remedial effort.

November 22, 2004: Cambria visited the site to make adjustments to the applied vacuum, to monitor system flow rate, concentrations, and vacuum at the wellhead, and to collect a sample. Between 7:30 and 7:45, an average wellhead vacuum of 131.0 inches WC was established by a liquid-ring pump generated vacuum of approximately 19 inches Hg. The extraction flow rate ranged from 10.0 to 10.9 scfm and averaged 10.4 scfm. A vapor sample collected from well MW-10 at 7:45 contained 8,100 ppmv TPHg, 110 ppmv benzene, and 22 ppmv MTBE. The volume of extracted groundwater was not measured, but was observed to be very low. The Solleco unit was set to operate overnight to maximize the remedial effort.

November 23, 2004: DPE from well MW-10 continued throughout the day. A consistent wellhead vacuum of 156.0 inches WC was achieved by a liquid-ring pump generated vacuum of 20 inches Hg. The extraction flow rate ranged from 5.2 to 9.0 scfm and averaged 6.7 scfm. Vacuum influence was monitored in well MW-4, but was not observed due to submerged well screens. Approximately 46 gallons of groundwater were removed from well MW-10 since resuming DPE.

A vapor sample collected at 8:30 contained 30,000 ppmv TPHg, 460 ppmv benzene, and 100 ppmv MTBE. The vapor sample collected near the end of the day (13:20) contained 26,000 ppmv TPHg, 400 ppmv benzene, and 82 ppmv MTBE. The Solleco unit was set to operate overnight to maximize the remedial effort.

November 24, 2004: DPE from well MW-10 continued through the day. A consistent wellhead vacuum of 160.0 inches WC was achieved by a liquid-ring pump generated vacuum of 20 inches Hg. The extraction flow rate ranged from 3.5 to 6.5 scfm and averaged 5.0 scfm. Approximately 125 gallons of groundwater were removed from well MW-10 since resuming DPE.

A vapor sample collected at 9:00 contained 21,000 ppmv TPHg, 350 ppmv benzene, and 74 ppmv MTBE. A vapor sample collected near the end of the day (13:30) contained 59,000 ppmv TPHg, 660 ppmv benzene, and 140 ppmv MTBE.

CONCLUSIONS

Groundwater yield during DPE was extremely low. A total of approximately 950 gallons of groundwater was extracted during 213 hours of DPE, for an average overall groundwater extraction rate of 0.07 gallons per minute (gpm).

Vacuum influence was monitored in wells MW-3, MW-4, MW-8, and VEW-7 during segments of the DPE test on well MW-10, but was not detected. The lack of vacuum influence during the test may be attributed to the significant distance between the target well and the observation wells (approximately 30 to 65 feet) and to the fact that well screens in the monitored wells were submerged or nearly submerged throughout DPE. The lack of drawdown in the observation wells indicates that the extent of the cone of depression around each extraction well was limited. Thus, the area of soils remediated by vapor extraction around each extraction well was likely limited.

The mass removal data from well MW-10 suggests that DPE was moderately effective as interim remediation there. A low average flow rate of approximately 6.6 scfm was obtained from well MW-10 with a measured wellhead vacuum level ranging from 90.1 to 218.1 inches WC. TPHg, BTEX, and MTBE vapor concentrations increased to high levels over the duration of DPE (163.2 hours). The increasing vapor concentrations suggest that residual hydrocarbon mass remains in saturated soils in the area. Based on operating parameters and vapor sample analytical results, the total vapor-phase TPHg, benzene and MTBE mass removed from well MW-10 is estimated at 93.6, 1.37, and 0.389 pounds, respectively (Table 2). DPE removed a total of approximately 200 gallons of groundwater from MW-10, for an average GWE rate of 0.02 gpm.

The vapor concentration and mass removal data from well MW-9 suggests that DPE was not effective as interim remediation there. A low average flow rate of approximately 2.4 scfm was obtained from well MW-9 with a measured wellhead vacuum level ranging from 32.8 to 191.7 inches WC. TPHg and BTEX vapor concentrations were initially low and were reduced to non-detectable levels by the end of the 25.4-hour DPE test. MTBE was not detected in the vapor samples collected throughout the DPE test on MW-9. Based on operating parameters and vapor sample analytical results, the total vapor-phase TPHg, benzene and MTBE mass removed from well MW-9 is estimated at 0.009, 0.0002 and 0.00003 pounds, respectively (Table 2). A

negligible volume of groundwater was removed from well MW-9 by DPE. The DPE data suggests that residual hydrocarbons are not present in saturated soils in the vicinity of MW-9.

The mass removal data from well MW-1 suggests that DPE was moderately effective as interim remediation. A low average flow rate of approximately 5.0 scfm was obtained from well MW-1 at a measured wellhead vacuum level ranging from 26.5 to 199.1 inches WC. Moderate levels of TPHg, BTEX, and MTBE vapor concentrations were sustained over the duration of DPE (24.4 hours). The sustained vapor concentrations suggest that residual source area hydrocarbon mass remains. Based on operating parameters and vapor sample analytical results, the total vapor-phase TPHg, benzene and MTBE mass removed from well MW-1 is estimated at 4.38, 0.068, and 0.004 pounds, respectively (Table 2). DPE removed approximately 730 gallons of groundwater from well MW-1, for an average GWE rate of 0.5 gpm. The larger groundwater yield from this well is attributed to its close proximity to the UST excavation, which probably stores groundwater in its more permeable backfill material.

The results also indicate that the soils at the site are highly impermeable to both air and groundwater flow. While this makes remediation difficult, it also limits the rate at which soil vapors and groundwater migrate. This helps explain why the groundwater plume is not migrating off site.

Compared to fourth quarter 2004 monitoring results, results of the first quarter 2005 groundwater monitoring event indicate a significant increase in TPHg, benzene and MTBE concentrations in wells MW-1 and MW-10. TPHg, benzene and MTBE were detected at concentrations of 9,100, 2,100 and 680 ppb, respectively, in samples collected from MW-1 on November 2, 2004, compared to 21,000 ppb TPHg, 2,700 ppb benzene and 1,000 ppb MTBE in samples collected on January 10, 2005. Similarly, TPHg, benzene and MTBE were detected at concentrations of 48,000, 16,000 and 3,100 ppb, respectively, in samples collected from MW-10 on November 2, 2004, compared to 120,000 ppb TPHg, 21,000 ppb benzene and 16,000 ppb MTBE in samples collected on January 10, 2005 (see Attachment B). Elevated concentrations are often observed as a temporary after-effect of DPE, because constituent mass remaining in the subsurface is pulled toward the extraction points.

RECOMMENDATIONS

The low air flow and high vacuum readings demonstrated during DPE were consistent with soil types (clay) observed during investigation activities. The low air flow rate is near the feasible limit of DPE, while the low groundwater flow rate facilitates the maintenance of dewatered conditions in

the extraction wells during DPE. Although the data suggests DPE is near its feasible limit at this site, Cambria recommends additional DPE to further assess and remediate residual hydrocarbons in saturated soils. Hydrocarbon concentrations in soil vapor and groundwater can increase throughout DPE as hydrocarbons are drawn towards the extraction point, as observed in MW-10. As previously discussed, hydrocarbon mass in soils was believed to be small and limited to the areas near wells MW-1, MW-9 and MW-10. DPE data confirmed this assertion for the areas near MW-1 and MW-9, but not MW-10. Based on the significant contaminant mass removal and increasing concentrations observed during DPE from MW-10, Cambria recommends additional DPE from this well to remove additional hydrocarbon mass from saturated soils and to provide a better assessment of the hydrocarbon mass remaining in saturated soils near MW-10.

WORK TASKS FOR ADDITIONAL INTERIM REMEDIATION

Cambria plans to continuously extract soil vapor and groundwater from well MW-10 using DPE for a minimum of five days.

Initially, a vacuum will be applied to dewater the target well. Once the well has been dewatered to the target elevation (approximately 10 fbg), Cambria will incrementally increase the applied vacuum setting to determine the optimal extraction rate (maximum air flow rate). Once determined, Cambria will set DPE operation at the optimal extraction rate.

The following sections detail the tasks and information for the proposed interim remediation:

Site Health and Safety Plan: Cambria will prepare a comprehensive site health and safety plan to protect site workers. The plan will be reviewed and signed by each site worker and kept on site during field activities.

Permitting: Cambria will notify the BAAQMD of Cambria's plan to conduct the proposed DPE using the existing permit to operate.

Equipment: Critical components for DPE include an extraction device, water storage, and a vapor treatment device. A Solleco catalytic oxidizer (ECat) will be used to apply a vacuum to the extraction well and to abate extracted vapors. The ECat is an electric device, requiring the use of a generator for powering. The ECat is equipped with a liquid-separator to remove entrained groundwater from the vapor stream. Groundwater will be pumped from the separator to an on-site storage tank through an aboveground hose.

The ECat is equipped with controls to manage well flow, dilution air flow, pump vacuum, and well vacuum data. A Thomas Industries model 907CDC18F vacuum pump will be used to collect the vapor samples. A Horiba organic vapor analyzer will be used to field measure hydrocarbon concentrations in the extracted vapor stream. Magnehelic differential pressure gauges will be used to measure induced vacuum in adjacent wells. A water level meter will be used to measure groundwater drawdown in adjacent wells. A Kent C700 flow totalizing meter will continuously measure extracted groundwater.

The ECat will abate the extracted soil vapors to comply with the BAAQMD requirements. The extracted groundwater will be temporarily stored in an on-site storage tank and subsequently transported to Shell's refinery in Martinez, California for reclamation.

Data Collection: Cambria will periodically measure and record the following DPE operational and monitoring information: applied vacuum, induced vacuum, well flow, dilution air flow, vapor concentrations, extracted groundwater volume, and groundwater drawdown. This information will be initially collected every 15 to 30 minutes, then in longer intervals after operational data has stabilized. Vapor samples will be collected periodically in 1-liter Tedlar bags to confirm field-measured concentrations through laboratory analysis. State-approved STL will analyze all samples for TPHg, BTEX, and MTBE using EPA Method 8260.

Report Preparation: Following the completion of DPE activities, Cambria will prepare and submit a written report which will describe the field activities, tabulate the field data, calculate the mass of contaminants removed through DPE, and summarize the results and findings. Cambria's report will evaluate DPE effectiveness and provide conclusions and recommendations for additional activities.

SCHEDULE

Cambria has tentatively scheduled this work for the last week of April 2005. A report will be submitted approximately 60 days after completion of the field work and laboratory analyses.

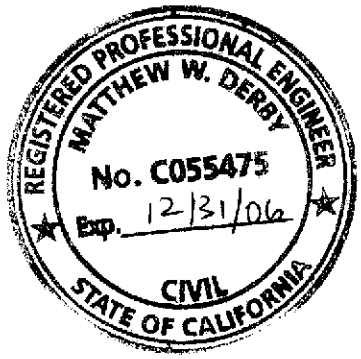
CLOSING

If you have any questions regarding the contents of this document, please call Cynthia Vasko at (510) 420-3344.

Sincerely,
Cambria Environmental Technology, Inc.

Cynthia Vasko
Project Engineer

Matthew W. Derby, P.E.
Senior Project Engineer



Figures:
1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map
3 - Co-Axial Vapor and Sparge Well and Underground Utilities Map

Tables:
1 - Well Data
2 - Dual-Phase Extraction – Mass Removal Data

Attachments:
A - Available Boring Logs
B - Historical Groundwater Monitoring Data
C - Field Data Sheets
D - Certified Laboratory Analytical Reports

cc: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
J.T., Elizabeth G., W.T., and Jeanette Watters, Tr., 600 Caldwell Road, Oakland, CA 94611

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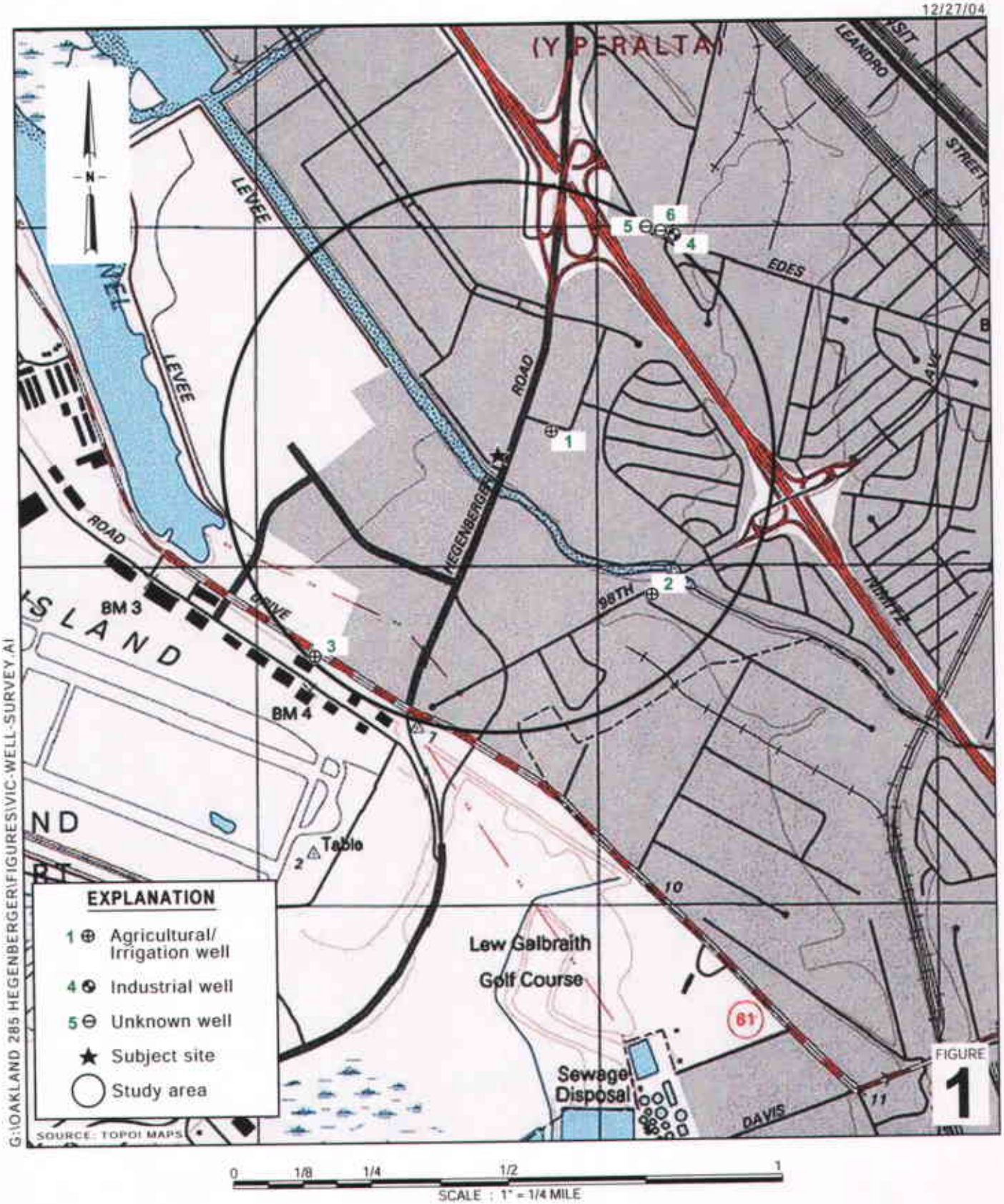
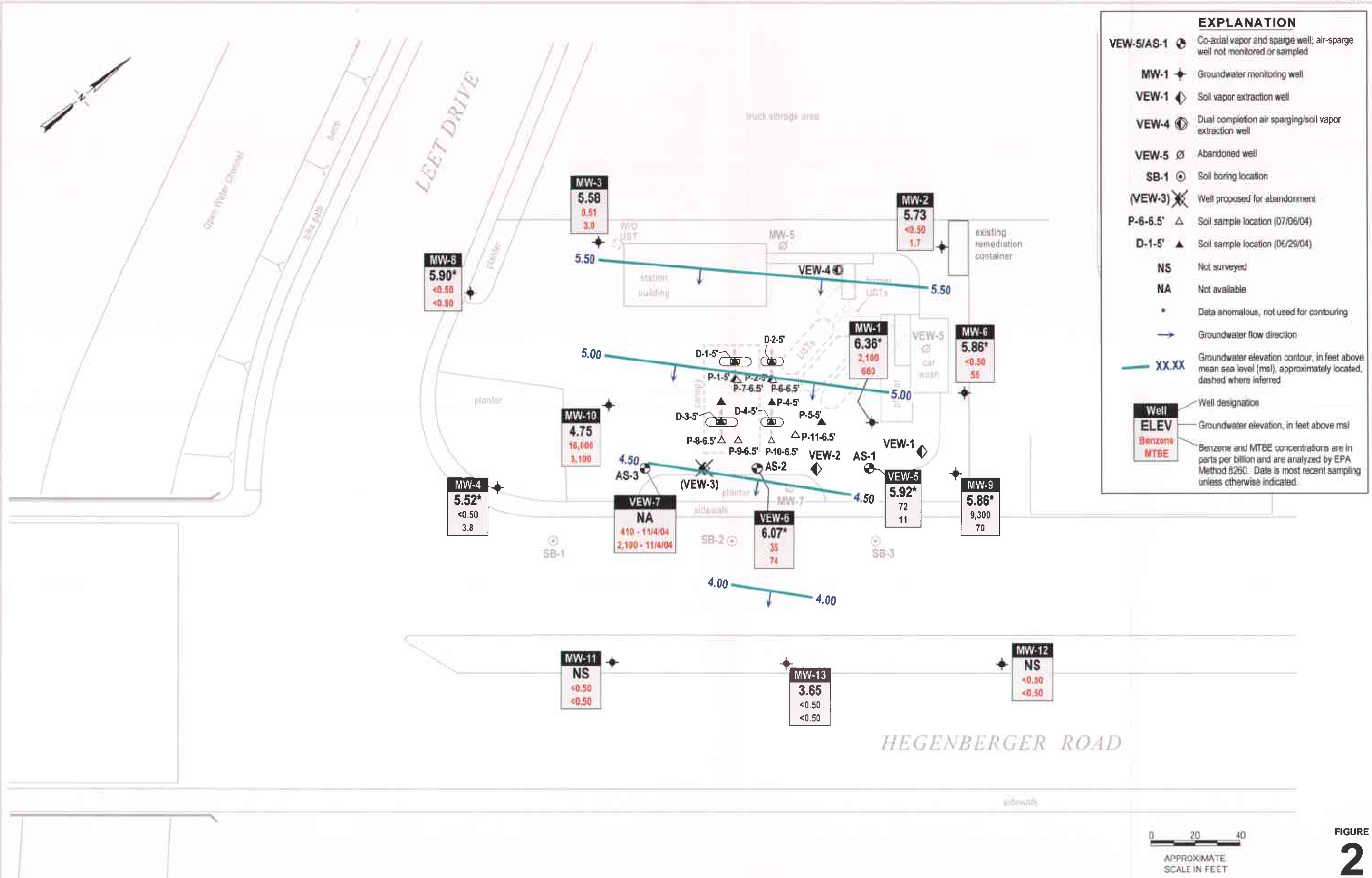


Shell-branded Service Station
285 Hegenberger Road
Oakland, California
Incident #98995749

CAMBRIA

Vicinity/Area Well Survey Map
(1/2-Mile Radius)


12/28/04
EXPLANATION
VEW-5/AS-1 Co-axial vapor and sparge well; air-sparge well not monitored or sampled
MW-1 Groundwater monitoring well
VEW-1 Soil vapor extraction well
VEW-4 Dual completion air sparging/soil vapor extraction well
VEW-5 Abandoned well
SB-1 Soil boring location
(VEW-3) Well proposed for abandonment
P-6-6.5' Soil sample location (07/06/04)
D-1-5' Soil sample location (06/29/04)
NS Not surveyed
NA Not available
* Data anomalous, not used for contouring
Groundwater flow direction
XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred
Well Well designation
ELEV Groundwater elevation, in feet above msl
Benzene MTBE Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260. Date is most recent sampling unless otherwise indicated.
LEET DRIVE
HEGENBERGER ROAD
truck storage area
Open Water Channel
bike path
berm
planter
station building
W/O UST
former USTs
existing remediation container
car wash
canopy
sidewalk
MW-3 5.58 0.51 3.0
MW-2 5.73 <0.50 1.7
MW-8 5.90* <0.50 <0.50
MW-1 6.36* 2,100 680
MW-6 5.86* <0.50 55
MW-10 4.75 16,000 3,100
MW-4 5.52* <0.50 3.8
VEW-7 NA 410 - 11/4/04 2,100 - 11/4/04
VEW-6 6.07* 35 74
VEW-5 5.92* 72 11
MW-9 5.86* 9,300 70
MW-11 NS <0.50 <0.50
MW-13 3.65 <0.50 <0.50
MW-12 NS <0.50 <0.50
MW-5
MW-7
VEW-4
VEW-5
VEW-1
VEW-2
(VEW-3)
AS-1
AS-2
AS-3
SB-1
SB-2
SB-3
D-1-5'
D-2-5'
D-3-5'
D-4-5'
P-1-5'
P-2-5'
P-4-5'
P-5-5'
P-6-6.5'
P-7-6.5'
P-8-6.5'
P-9-6.5'
P-10-6.5'
P-11-6.5'
5.50
5.00
4.50
4.00
0 20 40
APPROXIMATE SCALE IN FEET
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Groundwater Elevation Contour Map

November 2, 2004

CAMBRIA

Shell-branded Service Station

285 Hegenberger Road
Oakland, California
Incident #98995749

FIGURE
2

08/29/01

Co-axial Vapor and Sparge Well and Underground Utilities Map

EXPLANATION

VEW-5/ AS-3	Co-axial vapor and sparge well. Borings completed June 28, 2000
SB-1	Soil boring location
MW-1	Groundwater monitoring well
VEW-1	Soil vapor extraction well
VEW-4	Dual completion air sparging/soil vapor extraction well
VEW-5	Destroyed well
(VEW-3)	Well proposed for destruction
P-1	Emission point
	Sanitary Sewer Line
	Storm Drain
	Electrical Line
	Gas Line
	Location inferred
	Manhole
	Utility Box

Basemap from Pacific Environmental Group, Inc.

0 20 40

APPROXIMATE SCALE IN FEET

SS SS

Truck storage area

Existing Remediation Container

Former underground storage tanks

Waste oil tank

LEET DRIVE

Open Water Channel

Berm

Bike Path

MW-3

MW-8

MW-5

VEW-4

MW-2

P-1

Building

Underground storage tanks

Canopy

VEW-5

Car wash

MW-6

12" SS

MW-10

8" SS

4" SS

(VEW-3)

VEW-7/ AS-3

MW-4

MW-1

VEW-1

VEW-5/ AS-1

VEW-6/ AS-2

VEW-2

MW-7

MW-9

Planter

Parking

Sidewalk

SS Pump Station

8" Forced Pressure SS

SB-1

SB-2

SB-3

15" SS

54" SD

66" SD

SD Outlet

MH paved over

42" SS INTERCEPTOR

SS

MW-11

MW-13

MW-12

HEGENBERGER ROAD

48" SD

12" SS

SD

SS

Sidewalk

CAMBRIA

Shell-branded Service Station
285 Hegenberger Road
Oakland, California
Incident #98995749

FIGURE
3

G:\OAK285\FIGURES\UTILITIES.AI

Table 1. Well Data, Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

Name	Type/ Drilling Method	Date Installed	TOC (ft msl)	Total Depth (fbg)	Soil Sample Interval (ft)	First Encountered GW Depth (fbg)	First Encountered GW Elev (ft msl)	Screen Diam. (In)	Screen Depth (fbg) Top	Screen Depth (fbg) Bottom	Comments
MW-1	Monitoring Well/HSA	13-Feb-85	-	16.5	5	6.0	-	4	4.8	9.5	
MW-2	Monitoring Well/HSA	14-Feb-85	-	16.5	5	6.0	-	4	5.3	9.8	
MW-3	Monitoring Well/HSA	13-Feb-85	-	16.5	5	6.0	-	4	5.0	9.8	
MW-4	Monitoring Well/HSA	27-Apr-85	-	14.0	5	7.0	-	4	5.0	10.0	
MW-6	Monitoring Well/HSA	27-Apr-85	-	12.0	5	5.5	-	4	5.0	10.0	
MW-8	Monitoring Well/HSA	27-Apr-85	-	12.0	5	9.0	-	4	5.0	10.0	
MW-9	Monitoring Well/HSA	12-Jul-85	-	10.5	5	6.0	-	4	5.0	10.0	
MW-10	Monitoring Well/HSA	5-Jun-92	-	20.0	5	10.0	-	2	5.0	20.0	
MW-11	Monitoring Well/HSA	7-Jun-89	10.56	15.5	5	8.5	2.06	4	4.0	14.0	
MW-12	Monitoring Well/HSA	7-Jun-89	9.56	15.5	5	5.3	4.31	4	5.0	15.0	
MW-13	Monitoring Well/HSA	9-Jun-89	10.10	15.5	5	8.5	1.60	4	5.0	15.0	
VEW-1	Vapor Ext. Well/HA	20-Nov-87	-	7.0	5	6.0	-	4	3.5	6.5	
VEW-2	Vapor Ext. Well/HSA	8-Jun-89	-	6.5	5	4.5	-	2	3.5	6.5	
VEW-2	Sparge Well/HSA	8-Jun-89	-	8.5	5	4.5	-	2	7.5	8.5	
VEW-4	Vapor Ext. Well/HSA	8-Jun-89	-	6.5	5	4.5	-	2	3.5	6.5	
VEW-4	Sparge Well/HSA	8-Jun-89	-	9.0	5	4.5	-	2	8.0	9.0	
VEW-5	Co-axial Well/HSA	8-Jun-89	-	10.0	5	5.0	-	4	2.5	10.0	
AS-1			-	15.0			-	1	12.5	14.5	
VEW-6	Co-axial Well/HSA	-	-	10.0			-	4	2.5	10.0	
AS-2			-	15.0			-	1	12.5	15.0	
VEW-7	Co-axial Well/HSA	-	-	10.0			-	4	2.5	10.0	
AS-3			-	15.0			-	1	12.5	15.0	

Abbreviations:
HSA - Hollow stem auger
TOC = Top of casing
ft msl = Feet referenced to mean sea level.
fbg = Feet below grade
ft = Feet
In = Inches
GW = Groundwater
Diam. = Diameter

Table 2. Dual-phase Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

										TPHg		Benzene		MTBE	
	Hour	Cumulative	Well Head				Hydrocarbon Concentrations			Removal	Cumulative	Removal	Cumulative	Removal	Cumulative
	Meter	Operation	Vacuum		Flow Rate		TPHg	Benzene	MTBE	Rate	Removed	Rate	Removed	Rate	Removed
Date/Time	(hours)	(hours)	Gauge(in WC)	Abs(in WC)	(ACFM)	(SCFM)	(Concentrations in ppmv)			(#/hour)	(#)	(#/hour)	(#)	(#/hour)	(#)
MW-10 DPE Test															
11/15/2004 9:45	2648.0	0.0	102.8	304.0	66.5	49.7	*525*			1.395	0.000	0.0307	0.0000	0.00591	0.00000
10:00	2648.3	0.3	90.1	316.7	*30.0*	*23.4*	*790*			0.656	0.197	0.0144	0.0043	0.00278	0.00083
11:00	2649.4	1.4	*395.0*	*11.8*	21.2	*0.6*	*782*			0.017	0.216	0.0004	0.0048	0.00007	0.00091
11:10	2649.5	1.5	*300.0*	*106.8*	7.6	*2.0*	*63*			0.056	0.221	0.0012	0.0049	0.00024	0.00094
11:20	2649.6	1.6	204.0	202.8	8.6	4.3	*7,880*			0.120	0.233	0.0026	0.0051	0.00051	0.00099
11:25	2649.7	1.7	164.2	242.6	11.0	6.6	*10,120*			0.184	0.252	0.0041	0.0055	0.00078	0.00107
11:30	2649.8	1.8	119.5	287.3	6.4	4.5	*6,040*			0.126	0.264	0.0028	0.0058	0.00054	0.00112
11:45	2650.1	2.1	211.5	195.3	9.7	4.7	**2,100**	**51**	**8.7**	0.131	0.303	0.0029	0.0067	0.00055	0.00129
12:00	2650.3	2.3	200.0	206.8	10.4	5.3	*13,650*			0.148	0.333	0.0033	0.0073	0.00063	0.00141
12:30	2650.8	2.8	169.5	237.3	10.2	6.0	*10,120*			0.167	0.417	0.0037	0.0092	0.00071	0.00177
13:00	2651.3	3.3	165.0	241.8	10.5	6.3	*15,150*			0.176	0.504	0.0039	0.0111	0.00074	0.00214
13:30	2651.8	3.8	*165.0*	*241.8*	*10.0*	*5.9*	**2,500**	**69**	**15**	0.199	0.604	0.0050	0.0136	0.00122	0.00275
11/16/2004 7:30	2669.8	21.8	158.1	248.7	*10.0*	*6.1*	NM			0.204	4.281	0.0051	0.1057	0.00125	0.02533
8:10	2670.4	22.4	158.2	248.6	*10.0*	*6.1*	*328*			0.204	4.404	0.0051	0.1087	0.00125	0.02608
8:45	2671.0	23.0	158.2	248.6	*10.0*	*6.1*	**170**	**3.9**	**0.32**	0.014	4.412	0.0003	0.1089	0.00003	0.02610
9:30	2671.8	23.8	184.9	221.9	*10.0*	*5.5*	*310*			0.012	4.422	0.0003	0.1091	0.00002	0.02611
9:45	2672.1	24.1	186.1	220.7	10.0	5.4	*323*			0.012	4.426	0.0003	0.1092	0.00002	0.02612
10:15	2672.6	24.6	*300.0*	*106.8*	11.7	*3.1*	*108*			0.007	4.429	0.0001	0.1093	0.00001	0.02613
10:45	2673.1	25.1	206.2	200.6	*10.0*	*4.9*	*394*			0.011	4.435	0.0002	0.1094	0.00002	0.02614
11:15	2673.6	25.6	208.6	198.2	*10.0*	*4.9*	*442*			0.011	4.440	0.0002	0.1095	0.00002	0.02615
11:45	2674.1	26.1	210.6	196.2	*10.0*	*4.8*	*752*			0.011	4.446	0.0002	0.1096	0.00002	0.02616
12:15	2674.6	26.6	209.8	197.0	*10.0*	*4.8*	*748*			0.011	4.451	0.0002	0.1097	0.00002	0.02617
12:45	2675.1	27.1	218.1	188.7	*10.0*	*4.6*	*1,190*			0.011	4.457	0.0002	0.1098	0.00002	0.02618
13:15	2675.6	27.6	185.2	221.6	*10.0*	*5.4*	*1,208*			0.012	4.463	0.0003	0.1100	0.00002	0.02619
13:45	2676.1	28.1	185.1	221.7	*10.0*	*5.4*	**580**	**13**	**1.2**	0.042	4.484	0.0009	0.1104	0.00009	0.02624
14:30	2676.8	28.8	183.0	223.8	*10.0*	*5.5*	*1,179*			0.043	4.514	0.0009	0.1110	0.00009	0.02630
11/17/2004 7:00	2693.4	45.4	188.0	218.8	5.1	2.8	*28,950*			0.021	4.869	0.0004	0.1182	0.00005	0.02705
7:15	2693.7	45.7	189.5	217.3	7.3	3.9	**1,600**	**26**	**4.1**	0.083	4.894	0.0012	0.1186	0.00022	0.02712
7:30	2694.0	46.0	188.5	218.3	7.2	3.9	*21,340*			0.083	4.919	0.0012	0.1189	0.00022	0.02718
MW-9 DPE Test															
11/17/2004 8:40	2694.1	0.0	NM	NA	NM	NA	NM			NA	0.0000	NA	0.000000	NA	0.000000
9:30	2694.9	0.8	32.8	374.0	*5.0*	*4.6*	*34*			0.0014	0.0011	0.000046	0.000037	0.000004	0.000004
9:45	2695.1	1.0	33.1	373.7	*5.0*	*4.6*	*23*			0.0014	0.0014	0.000046	0.000046	0.000004	0.000004
10:00	2695.3	1.2	65.2	341.6	*5.0*	*4.2*	*21*			0.0013	0.0017	0.000042	0.000054	0.000004	0.000005
10:15	2695.6	1.5	100.3	306.5	*5.0*	*3.8*	*44*			0.0012	0.0020	0.000037	0.000065	0.000004	0.000006
10:25	2695.8	1.7	172.4	234.4	*5.0*	*2.9*	**23**	**0.82**	**<0.14**	0.0009	0.0022	0.000029	0.000071	0.000003	0.000007
11:00	2696.4	2.3	170.2	236.6	1.1	0.6	*28*			0.0002	0.0023	0.000006	0.000075	0.000001	0.000007
11:45	2697.2	3.1	188.8	218.0	2.0	1.1	*33*			0.0003	0.0026	0.000011	0.000083	0.000001	0.000008
12:15	2697.7	3.6	189.2	217.6	*5.0*	*1.1*	*31*			0.0003	0.0027	0.000011	0.000089	0.000001	0.000009
12:45	2698.2	4.1	190.5	216.3	2.2	1.2	*42*			0.0004	0.0029	0.000011	0.000094	0.000001	0.000009
13:30	2698.9	4.8	191.7	215.1	4.3	2.3	*29*			0.0007	0.0034	0.000023	0.000110	0.000002	0.000011
14:00	2699.4	5.3	191.3	215.5	10.2	5.4	*38*			0.0017	0.0042	0.000054	0.000137	0.000005	0.000013
14:30	2699.9	5.8	190.8	216.0	4.5	2.4	**24**	**0.44**	**<0.14**	0.0008	0.0046	0.000013	0.000143	0.000002	0.000014

Table 2. Dual-phase Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

										TPHg		Benzene		MTBE	
	Hour	Cumulative	Well Head				Hydrocarbon Concentrations			Removal	Cumulative	Removal	Cumulative	Removal	Cumulative
	Meter	Operation	Vacuum		Flow Rate		TPHg	Benzene	MTBE	Rate	Removed	Rate	Removed	Rate	Removed
Date/Time	(hours)	(hours)	Gauge(in WC)	Abs(in WC)	(ACFM)	(SCFM)	(Concentrations in ppmv)			(#/hour)	(#)	(#/hour)	(#)	(#/hour)	(#)
15:00	2700.4	6.3	191.5	215.3	3.2	1.7	*52*			0.0005	0.0049	0.000009	0.000148	0.000002	0.000015
11/18/2004 7:30	2717.0	22.9	*200.0*	*206.8*	1.2	*0.6*	*7*			0.0002	0.0082	0.000003	0.000202	0.000001	0.000025
8:00	2717.5	23.4	*200.0*	*206.8*	2.8	*1.4*	*4*			0.0005	0.0084	0.000008	0.000206	0.000001	0.000026
8:30	2718.0	23.9	*200.0*	*206.8*	1.8	*0.9*	*8*			0.0003	0.0085	0.000005	0.000209	0.000001	0.000026
9:00	2718.5	24.4	*200.0*	*206.8*	5.4	*2.8*	*5*			0.0009	0.0090	0.000015	0.000216	0.000003	0.000027
9:30	2719.0	24.9	*200.0*	*206.8*	2.2	*1.1*	**<14**	**<0.31**	**<0.14**	0.0001	0.0090	0.000002	0.000217	0.000001	0.000028
10:00	2719.5	25.4	*200.0*	*206.8*	*4.4*	*2.2*	*3*			0.0002	0.0091	0.000004	0.000219	0.000002	0.000029
MW-1 DPE Test															
11/18/2004 10:30	2720.0	0.0	198.2	208.6	2.8	1.4	*137*			0.050	0.000	0.0004	0.0000	0.00005	0.00000
10:45	2720.3	0.3	199.1	207.7	3.0	1.5	*411*			0.053	0.016	0.0004	0.0001	0.00006	0.00002
11:00	2720.5	0.5	198.8	208.0	1.4	0.7	*563*			0.025	0.021	0.0002	0.0002	0.00003	0.00002
11:15	2720.7	0.7	175.2	231.6	2.1	1.2	**2,600**	**24**	**2.7**	0.042	0.029	0.0003	0.0002	0.00004	0.00003
11:30	2721.0	1.0	105.4	301.4	0.5	0.4	*4,930*			0.013	0.033	0.0001	0.0003	0.00001	0.00004
11:45	2721.3	1.3	78.0	328.8	*5.0*	*4.0*	*4,950*			0.140	0.075	0.0012	0.0006	0.00015	0.00008
12:00	2721.5	1.5	108.6	298.2	*5.0*	*3.7*	*4,140*			0.127	0.101	0.0011	0.0008	0.00014	0.00011
12:30	2722.0	2.0	130.1	276.7	8.7	5.9	*3,480*			0.206	0.204	0.0017	0.0017	0.00022	0.00022
13:00	2722.5	2.5	128.2	278.6	*5.0*	*3.4*	*3,108*			0.119	0.263	0.0010	0.0022	0.00013	0.00028
13:30	2723.0	3.0	131.4	275.4	*5.0*	*3.4*	*3,359*			0.118	0.322	0.0010	0.0027	0.00013	0.00034
14:00	2723.5	3.5	116.3	290.5	*5.0*	*3.6*	*3,230*			0.124	0.384	0.0010	0.0032	0.00013	0.00041
14:30	2724.0	4.0	129.3	277.5	*5.0*	*3.4*	*3,140*			0.119	0.443	0.0010	0.0037	0.00013	0.00047
15:00	2724.5	4.5	118.9	287.9	3.8	2.7	**1,000**	**19**	**<1.4**	0.036	0.461	0.0006	0.0040	0.00003	0.00048
15:30	2725.0	5.0	121.4	285.4	*5.0*	*3.5*	*4,010*			0.047	0.485	0.0008	0.0044	0.00003	0.00050
11/19/2004 8:00	2741.5	21.5	167.4	239.4	25.8	15.2	*296*			0.203	3.834	0.0035	0.0621	0.00015	0.00290
8:30	2742.0	22.0	26.5	380.3	8.4	7.9	*903*			0.105	3.886	0.0018	0.0630	0.00008	0.00294
8:40	2742.2	22.2	102.5	304.3	*5.0*	*3.7*	*1,221*			0.050	3.896	0.0009	0.0632	0.00004	0.00294
9:00	2742.5	22.5	145.2	261.6	8.4	5.4	**1,100**	**9.7**	**1.5**	0.079	3.920	0.0006	0.0634	0.00011	0.00298
9:30	2743.0	23.0	137.8	269.0	*5.0*	*3.3*	*2,030*			0.049	3.944	0.0004	0.0636	0.00007	0.00301
10:50	2744.4	24.4	137.2	269.6	39.3	26.0	**900**	**9.3**	**1.5**	0.313	4.383	0.0029	0.0677	0.00053	0.00376
MW-10 DPE Test															
11/19/2004 12:00	2744.8	0.0	NM	NA	NM	NA	NM			NA	0.000	NA	0.000	NA	0.000
12:30	2745.3	0.5	118.0	288.8	8.4	5.9	*5,240*			0.207	0.103	0.003	0.002	0.001	0.001
12:45	2745.5	0.7	112.0	294.8	10.2	7.4	**2,600**	**47**	**17**	0.257	0.155	0.004	0.003	0.002	0.001
13:00	2745.8	1.0	113.5	293.3	10.5	7.6	*5,270*			0.263	0.234	0.004	0.004	0.002	0.002
14:15	2747.1	2.3	139.5	267.3	8.1	5.3	*6,780*			0.185	0.475	0.003	0.008	0.001	0.003
11/22/2004 7:30	2812.5	67.7	129.8	277.0	15.3	10.4	*23,870*			0.362	24.156	0.006	0.396	0.002	0.162
7:35	2812.6	67.8	130.9	275.9	14.7	10.0	*22,980*			0.347	24.191	0.006	0.397	0.002	0.162
7:45	2812.8	68.0	132.4	274.4	16.1	10.9	**8,100**	**110**	**22**	1.176	24.426	0.014	0.400	0.003	0.163
11/23/2004 7:30	2836.6	91.8	156.0	250.8	13.1	8.1	*19,990*			0.876	45.271	0.011	0.656	0.002	0.220
8:00	2837.1	92.3	156.0	250.8	12.9	7.9	*18,470*			0.860	45.701	0.011	0.662	0.002	0.222
8:30	2837.6	92.8	156.0	250.8	14.5	9.0	**30,000**	**460**	**100**	3.590	47.496	0.050	0.687	0.012	0.228
9:00	2838.1	93.3	156.0	250.8	13.6	8.4	*19,660*			3.365	49.179	0.047	0.710	0.011	0.233
9:30	2838.6	93.8	156.0	250.8	11.9	7.3	*24,010*			2.945	50.651	0.041	0.730	0.010	0.239
10:15	2839.3	94.5	156.0	250.8	10.5	6.5	*22,030*			2.591	52.465	0.036	0.756	0.009	0.245
10:45	2839.8	95.0	156.0	250.8	11.5	7.1	*21,240*			2.848	53.889	0.040	0.775	0.010	0.250

Table 2. Dual-phase Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995749, 285 Hegenberger Road, Oakland, California

										TPHg		Benzene		MTBE	
	Hour	Cumulative	Well Head				Hydrocarbon Concentrations			Removal	Cumulative	Removal	Cumulative	Removal	Cumulative
	Meter	Operation	Vacuum		Flow Rate		TPHg	Benzene	MTBE	Rate	Removed	Rate	Removed	Rate	Removed
Date/Time	(hours)	(hours)	Gauge(in WC)	Abs(in WC)	(ACFM)	(SCFM)	(Concentrations in ppmv)			(#/hour)	(#)	(#/hour)	(#)	(#/hour)	(#)
11:30	2840.6	95.8	156.0	250.8	9.2	5.7	*20,190*			2.272	55.707	0.032	0.801	0.008	0.256
12:00	2841.1	96.3	156.0	250.8	8.6	5.3	*19,970*			2.124	56.769	0.030	0.815	0.007	0.259
12:30	2841.6	96.8	156.0	250.8	10.1	6.2	*20,580*			2.502	58.020	0.035	0.833	0.009	0.264
13:00	2842.1	97.3	156.0	250.8	10.5	6.5	*19,840*			2.604	59.322	0.036	0.851	0.009	0.268
13:30	2842.6	97.8	156.0	250.8	9.9	6.1	**26,000**	**400**	**82**	2.119	60.381	0.030	0.866	0.007	0.272
14:00	2843.1	98.3	156.0	250.8	8.5	5.2	*21,420*			1.813	61.288	0.025	0.878	0.006	0.274
14:30	2843.6	98.8	156.0	250.8	9.0	5.5	*20,590*			1.922	62.249	0.027	0.892	0.006	0.278
15:00	2844.1	99.3	156.0	250.8	8.5	5.3	*18,560*			1.830	63.164	0.026	0.905	0.006	0.280
11/24/2004 8:00	2856.0	111.2	160.0	246.8	5.7	3.5	*18,690*			1.200	77.441	0.017	1.104	0.004	0.327
8:30	2856.5	111.7	160.0	246.8	8.4	5.1	*19,980*			1.778	78.330	0.025	1.116	0.006	0.329
9:00	2857.0	112.2	160.0	246.8	10.7	6.5	**21,000**	**350**	**74**	1.814	79.237	0.027	1.130	0.007	0.333
9:30	2857.5	112.7	160.0	246.8	8.1	4.9	*17,250*			1.386	79.930	0.021	1.140	0.005	0.335
10:00	2858.0	113.2	160.0	246.8	8.7	5.3	*20,490*			1.477	80.669	0.022	1.152	0.005	0.338
10:30	2858.5	113.7	160.0	246.8	8.5	5.2	*19,420*			1.454	81.396	0.022	1.163	0.005	0.340
11:00	2859.0	114.2	160.0	246.8	8.2	5.0	*22,490*			1.398	82.095	0.021	1.173	0.005	0.343
11:30	2859.5	114.7	160.0	246.8	*8.5*	*5.2*	*22,200*			1.448	82.819	0.022	1.184	0.005	0.346
12:00	2860.0	115.2	160.0	246.8	8.9	5.4	*20,860*			1.517	83.577	0.023	1.196	0.005	0.348
12:30	2860.5	115.7	160.0	246.8	6.9	4.2	*24,630*			1.173	84.164	0.018	1.204	0.004	0.350
13:00	2861.0	116.2	160.0	246.8	7.2	4.3	*21,590*			1.218	84.773	0.018	1.214	0.004	0.353
13:30	2861.5	116.7	160.0	246.8	7.0	4.2	**59,000**	**660**	**140**	3.326	86.436	0.034	1.230	0.008	0.357
14:00	2862.0	117.2	160.0	246.8	9.5	5.7	*20,960*			4.527	88.699	0.046	1.253	0.011	0.362
Total Pounds Removed:										**TPHg =**	**98.0**	**Benzene =**	**1.44**	**MTBE =**	**0.393**

Abbreviations and Notes:

in WC = inches of water column

ACFM = Actual cubic feet per minute

SCFM = Standard cubic feet per minute.

SCFM = (ACFM) (Applied Absolute Vacuum / Atmospheric Absolute Vacuum)

ppmv = Parts per million by volume # = Pounds

O/R = Over range of instrument

NM = Not measured

NA = Not available

H2O = Measurement not available because the air was too wet.

TPHG, Benzene, and MTBE analyzed by EPA Method 8260 respectively from 1 liter tedlar bag samples

(Rate = Laboratory analytical concentration (ppmv) x wellhead flow rate (scfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

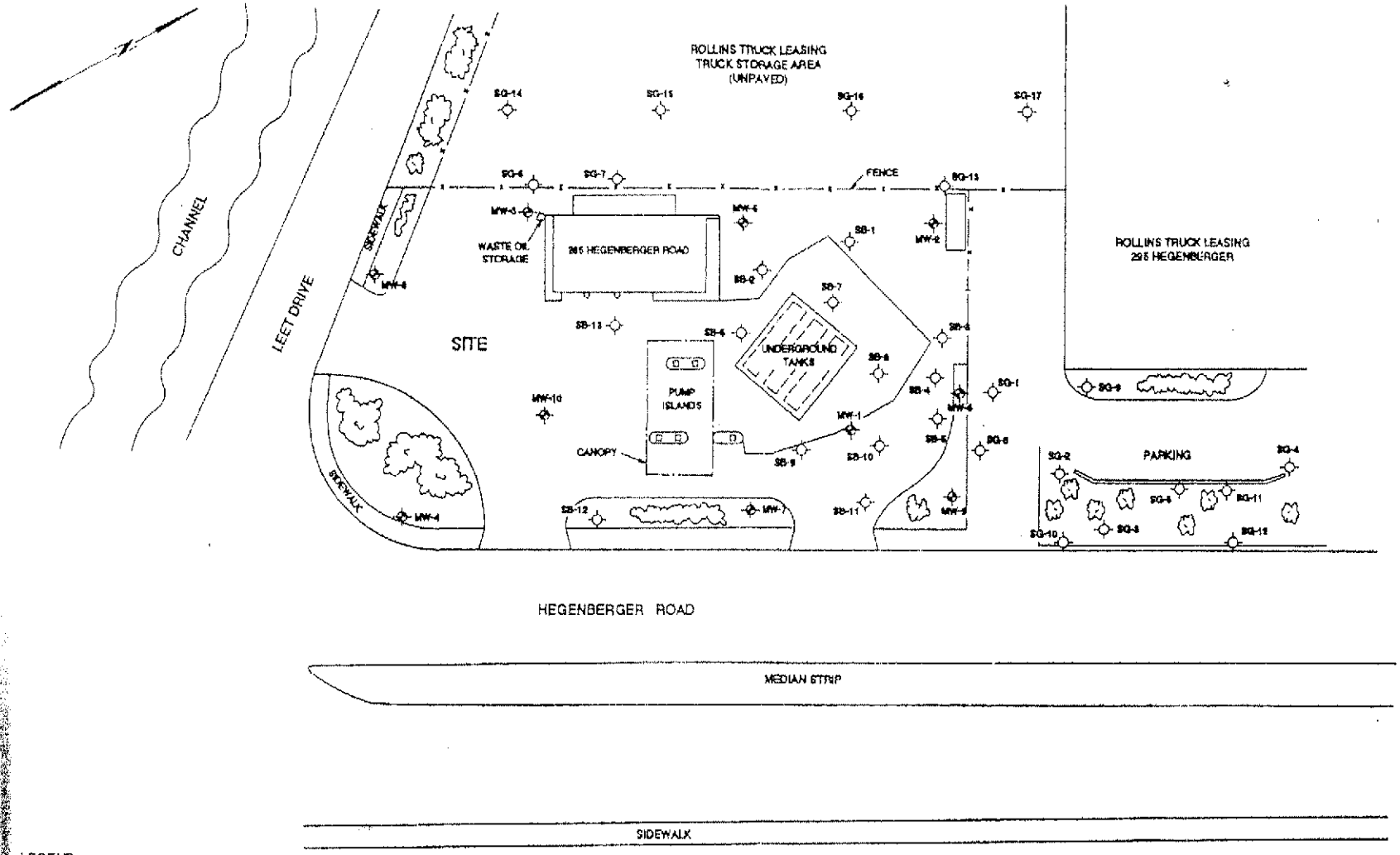
When consituents are not detected by laboratory analysis, half the detection limit is used in subsequent calculations

Italicized TPHg Concentrations are field measured values.

Italicized Vacuum and Flow Rate data is estimated. Readings were either not measured or not measurable with available monitoring eqiupment under set operating conditions.

ATTACHMENT A

Available Boring Logs



LEGEND

SB-1 SOIL BORING (locations approximate)

SG-1 OFF SITE SOIL BORING (locations approximate)

MW-1 GROUNDWATER MONITORING WELL

0 40 80

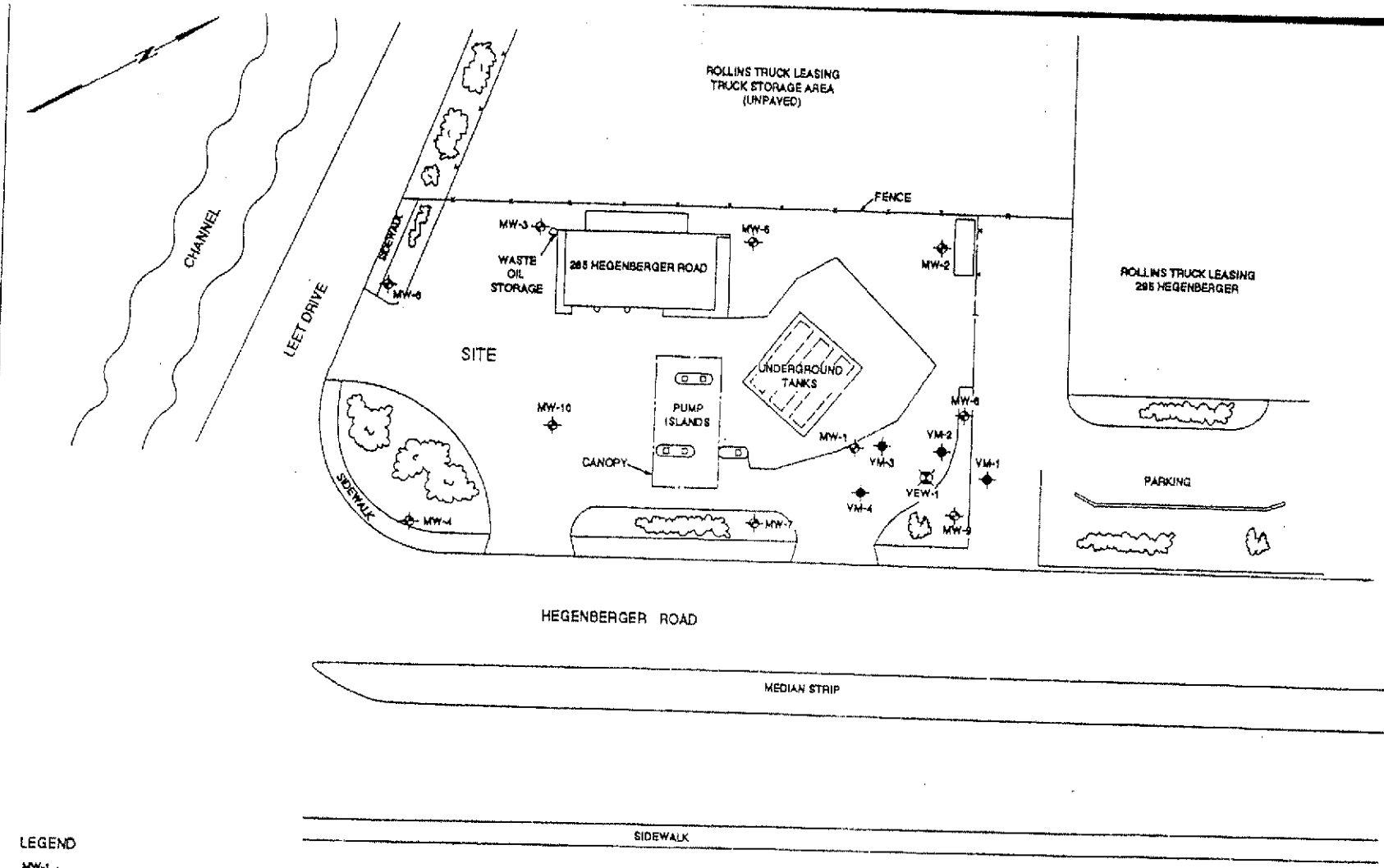
APPROXIMATE SCALE IN FEET

PLOT PLAN

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Converse Environmental West

Scale	AS SHOWN
Project No.	89-44-359-20
Prepared by	DEN
Date	9/24/90
Checked by	
Drawing No.	2
Approved by	CRC



LEGEND

MW-1 GROUNDWATER MONITORING WELL

VM-3 VAPOR MONITORING POINT

VEW-1 VAPOR EXTRACTION WELL

0 40 80

APPROXIMATE SCALE IN FEET

VAPOR EXTRACTION WELL & MONITORING POINT LOCATIONS

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Converse Environmental West

Scale	AS SHOWN
Prepared by	TNW
Checked by	JFK
Approved by	PAF
Project No.	89-44-359-20
Date	1/29/92
Drawing No.	2

LOG OF BORING NO. 1

DATE DRILLED: 2/13/89	ELEVATION:	WL TAKEN: None	EQUIPMENT: Hand Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FT.	DRY WEIGHT %	DRY DENSITY lb/ft³	TESTS
							0-2" ASPHALT, 2-6" BASE ROCK SP				
				damp moist	firm	brown	CLAY (Fill) CL Some sand and gravel				
	D			damp	firm to soft	black dark gray	SILTY CLAY CL/GP Some gravel				
				damp			SILTY SAND AND GRAVEL SP/	23			
5	D			wet			Fine SAND SW/GW	8			
							Bottom of Boring at 6.5 FT. Water seeping into hole				
10											
15											
20											

REGISTERED PROFESSIONAL GEOLOGIST
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No. 4110
STATE OF CALIFORNIA

SHELL OIL COMPANY
258 Heganberger Road
Oakland, California

Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-1

LOG OF BORING NO.2

DATE DRILLED: *2/13/89* | ELEVATION: | WL TAKEN: *None* | EQUIPMENT: *Hand Auger*

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FT.	DRY WEIGHT %	DRY DENSITY lb/ft³	TESTS
					hard		0-2" ASPHALT, 2-12" BASE ROCK				
				slightly damp	firm	gray	SILTY AND SANDY CLAY (Fill) CL/CH Some gravel				
5	D			moist	firm	gray	CLAYEY SAND SP/GP Some gravel. Odor of gasoline	27			
							Bottom of Boring at 6 ft. Water in hole at 6 ft.				
10											
15											
20											

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Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-2

LOG OF BORING NO. MW-1

DATE DRILLED: 2/14/89 | ELEVATION: | WL TAKEN: 2-14-89 | EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS mg/kg	TESTS
					hard		0-2" ASPHALT, 2"-12" BASE ROCK				
				dry	firm	brown to black	SANDY SILT	ML			
							CLAYEY SAND and GRAVEL (Fill)	SP/GP			
5	D			wet	loose	gray-black	CLAYEY fine SAND (Bay Mud) Some gasoline odor	SW			
								SP			
10	D			moist	soft to medium	gray-black	CLAY (Bay Mud) No gasoline odor	CH			
15	D			slightly damp	medium dense	gray-black	SANDY CLAY Trace of gravel	CH/CL			
							Bottom of Hole at 16.5 ft.				
20											

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SHELL OIL COMPANY
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Oakland, California

Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-3

LOG OF BORING NO. MW-2

DATE DRILLED: 2/15/89 | ELEVATION: | WL TAKEN: 2-15-89 | EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS mg/kg	TESTS
					hard		0-2" ASPHALT; 2-6" BASEROCK				
				dry	medium dense	brown	SILTY SAND and GRAVEL (Fill)	SM/GM			
				slightly damp	soft to medium	gray	SANDY CLAY (Fill)	CL			
5	D	▼		wet	soft	dark gray	CLAYEY SAND (Bay Mud) Trace of gravel	SP/CL			
							SANDY CLAY (Bay Mud)	CL			
10	D			moist	soft, firmer with depth	gray	CLAY (Bay Mud)	CH			
15	D						SANDY CLAY				
							Bottom of Hole at 16.5 ft.				
20											

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SHELL OIL COMPANY
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Project No.
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Converse Environmental Consultants California

Drawing No.
A-4

LOG OF BORING NO. MW-3

DATE DRILLED: 2/14/89 | ELEVATION: | WL TAKEN: 2-14-89 | EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	TOTAL PETROLEUM HYDROCARBONS Mg/Kg	TESTS
					hard		0-2" ASPHALT; 2-12" BASE ROCK				
				moist	medium dense	brown to black	CLAYEY SAND and GRAVEL (Fill)	SP/GP			
								CH			
5	D			moist	soft	brown	SILTY SAND and GRAVEL (Fill)	SM/GP			
				wet	soft	black	CLAYEY SAND (Fill)	CL			
							SILTY CLAY (Bay Mud) Some fine sand				
10	D			sat.	soft, firmer with depth		CLAY (Bay Mud)	CH			
15	D			moist	medium to firm	gray-black					
20							Bottom of Hole at 16.5 ft.				

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SHELL OIL COMPANY
258 Hegenberger Road
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Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-5

LOG OF BORING NO. MW-4

DATE DRILLED: 4/28/89	ELEVATION:	WL TAKEN: 4-28-89	EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				moist	medium	brown	Import Top Soil				
				moist	medium	brown	CLAYEY SAND and rock fragment (Fill) SC				
5	D			moist	medium	brown-gray	Mix SILTS and SANDS Trace dry Bay Mud ML-SM		7		
	D			very moist			Lenses and pockets silts, sand, clayey silt, trace organics		12		
	D			wet	loose		Lenses and layers of silts, fine sands		3		
	D			very moist							
10	D				soft	light gray	BAY MUD CH		1		
	D				medium	dark gray	Calcareous, trace vertical organics		8		
	D				stiff				20		
						gray	Calcareous SILTY CLAY CL				
15							Bottom of Hole at 14 ft.				
20											

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Oakland, California

Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-1

LOG OF BORING NO. MW-5

DATE DRILLED: 4/27/89	ELEVATION: N/A	WL TAKEN: 4-27-89	EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				slightly moist			ASPHALT: 1-1/2", base: 6"				
					medium dense	light brown to yellow-brown	CLAYEY SAND SC Little rock fragments				
				slightly moist	stiff	gray	SILTY CLAY CL Pocket of bay mud				
5	D			slightly moist	medium dense	brown	Fine to coarse SAND SP Layer coarse sand to pea gravels		23		
	D			wet			Lenses fine to medium sand		8		
	D	▼		very moist	soft	gray	CLAYEY SILT ML Sand lens CLAYEY SILT Fine sandy silt		7		
10	D			wet			SILTY CLAY (Bay Mud) CH		1		
	D					dark gray	Trace vertical organics		4		
	D						Trace of calcareous SILTY CLAY		10		
15							Bottom of Hole at 14 ft.				
20											

REGISTERED PROFESSIONAL GEOLOGIST
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SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-2

LOG OF BORING NO. MW-6

DATE DRILLED: 4/28/89	ELEVATION: N/A	WL TAKEN: 4-28-89	EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				moist	loose	brown	Import Top Soil				
				moist	loose	yellow-brown	CLAYEY SAND SC and rock fragments Trace cobble size fragments				
							Sandy clay, trace rock fragments				
5	D	▽		very moist	soft	grey	CLAYEY SILTS ML		23		
	D						Layer pea gravel possible floating product				
							Fine to medium sand		8		
							Layer coarse sand, pea gravel				
							Fine to medium SAND SP-ML		7		
10	D			wet			Clayey silt, trace fine sands		1		
	D						Fine sandy silts				
							Bay Mud, trace organics CH		4		
15							Bottom of Hole at 12 ft.		10		
20											

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Project No.
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Drawing No.
A-3

LOG OF BORING NO. MW-7

DATE DRILLED: 4/27/89	ELEVATION: N/A	WL TAKEN: 4-27-89	EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				very moist	stiff	brown	SILTY CLAY (Fill)	CL				
				wet	stiff		Zone of coarse size rock fragment	GP				
				very moist	stiff	black	SILTY CLAY Mix with sandy clays	CL				
	D					gray-brown						
5	D			very moist	soft to medium	gray	SILT & SAND, SILTY CLAY Strong odor	ML-CL		5		
	D			wet			Fine SANDY SILT	ML		9		
				v. moist			Fine SANDY SILT to fine SAND Trace silt					
	D			wet		dark gray	CLAYEY SILT	ML				
				very moist to wet		brown	Bay Mud, some peat. Grades to Bay Mud	CH		2		
10	D					dark gray						
	D					gray	Calcareous SILTY CLAY Trace vertical organics	CL		10		
	D									12		
15							Bottom of Hole at 14 ft.					
20												

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Drawing No.
A-4

LOG OF BORING NO. MW-8

DATE DRILLED: 4/28/89	ELEVATION:	WL TAKEN: 4-28-89	EQUIPMENT: Hollow Stem Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	T.P.H Mg/Kg	TESTS
				moist	medium	brown	Import Top Soil Silt and Clay with fine Sand CL				
				moist	medium dense	yellow-brown	CLAYEY SAND With rock fragments (Fill) SC				
						brown	SANDY CLAY With rock fragments (Fill)				
5	D			moist	medium dense	grey	CLAYEY SILT ML Pockets and lenses of silts, fine sands, and clayey silts		11		
	D	▼		wet	loose	dk.gray	SILTY Fine SAND SM				
10	D			wet	soft	gray	BAY MUD Trace organics CH		5		
	D					dark gray			5		
							Bottom of Hole at 12 ft.				
15											
20											

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SHELL OIL COMPANY
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Drawing No.
A-5

LOG OF BORING NO. SB-A

DATE DRILLED: 5/24/89	ELEVATION:	ML TAKEN: 5/24/89	EQUIPMENT:

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft³	TESTS
	D			slightly moist	loose	tan	SANDY GRAVEL (Fill)	12			
				moist	medium	black	SILTY CLAY CL				
	D			very moist	loose	gray	SANDY GRAVEL GM Strong odor	16			
5		▼		wet	loose	black	SILTY CLAY and SAND CL				
							Bottom of Hole at 6 ft.				
10											
15											
20											

SHELL OIL COMPANY
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Project No.
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Drawing No.
A-6

LOG OF BORING NO. SB-B

DATE DRILLED: 5/24/89	ELEVATION:	ML TAKEN: N/A	EQUIPMENT:

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft³	TESTS
				moist	loose	brown	SANDY GRAVEL (Fill)				
	D				medium	black	SILTY CLAY and fine SAND CL	9			
							Odor				
	D			very moist			Gravelly clay and sand	5			
5							Bottom of Hole at 4 ft.				
10											
15											
20											

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Project No.
88-44-359-02

Converse Environmental Consultants California

Drawing No.
A-7

LOG OF BORING NO. SB-C

DATE DRILLED: 5/24/89	ELEVATION:	WL TAKEN: 5/24/89	EQUIPMENT:

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FT.	MOISTURE CONTENT	DRY DENSITY lb/ft³	TESTS
				very moist		black	SILTY CLAY and SAND CL				
	D					gray	SILTY fine SAND SM	13			
						black	SILTY CLAY and SAND CL Strong odor				
5		▼		wet							
	D							4			
							Bottom of Hole at 6 ft.				
10											
15											
20											

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285 Hagenberger Road
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Project No.
88-44-359-02

Converse Environmental Consultants California

Drawing No.
A-8

LOG OF BORING NO. SB-6

DATE DRILLED: 7-13-89	ELEVATION:	WL TAKEN: 7-13-89	EQUIPMENT: 3-1/4"x 6" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft³	TESTS
							ASPHALT 3" CONC. SLAB. 6"				
				dry	loose	gray	GRAVEL backfill				
5							Filter fabric				
	1	▼		wet	medium	light gray	Lenses-layers SILT and fine SAND ML Odor	9			
							Bottom of Hole at 7 ft.				
10											
15											
20											

REGISTERED PROFESSIONAL GEOLOGIST
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SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-1

LOG OF BORING NO. SB-7

DATE DRILLED: 7-13-89	ELEVATION:	WL TAKEN: 7-13-89	EQUIPMENT: 3-1/4"x 6" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft³	TESTS
							ASPHALT 4" BASE 6"				
							GRAVEL backfill				
5		▼		wet			No odor				
							Bottom of Hole at 7 ft.				
10											
15											
20											

REGISTERED PROFESSIONAL ENGINEER
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285 Hegenberger Road
Oakland, California

Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-2

LOG OF BORING NO. SB-8

DATE DRILLED: 7-13-89	ELEVATION:	WL TAKEN: 7-13-89	EQUIPMENT: 3-1/4"x 6" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft³	TESTS
							ASPHALT 2" BASE 6"				
							Mix Bay Mud, SAND SP Odor				
	1			moist	loose	gray	Silty fine SAND trace SM shells fragments Strong odor	5	260		
5				v. moist							
	2	▼		wet	loose			5	260		
							Bottom of Hole at 6.5 ft.				
10											
15											
20											

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SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-3

LOG OF BORING NO. SB-9

DATE DRILLED: 7-13-89	ELEVATION:	WL TAKEN: 7-13-89	EQUIPMENT: 3-1/4"x 6" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft³	TESTS
					medium dense	black brown	ASPHALT 2" BASE 6"					
				moist	medium	dark gray	Silty CLAY Odor	CL				
5	1			moist	loose	gray	Fine Sandy SILT Odor	ML	6	280		
	2	▼		V. moist	firm to stiff		Silty CLAY Bay Mud Slight odor Clayey SILT rootlets	CH	8	15		
				wet								
10							Bottom of Hole at 7 ft.					
15												
20												

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SHELL OIL COMPANY
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Project No.
88-44-359-01

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Drawing No.
A-4

LOG OF BORING NO. SB-10

DATE DRILLED: 7-13-89	ELEVATION:	WL TAKEN: 7-13-89	EQUIPMENT: 3-1/4"x 6" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft³	TESTS
							ASPHALT 2" BASE 6"				
						gray	Silty CLAY CL Odor		50		
						light gray	Fine SAND trace SILT SP/SM		80		
						dark gray	Silty CLAY and Clayey SILT. Strong odor ML/CL		500		
5	1	▽		wet			Coarse SAND and pea GRAVEL SP/GP	7		--	
	2							11			
							Bottom of Hole at 6.5 ft.				
10											
15											
20											

SHELL OIL COMPANY
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Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-5

LOG OF BORING NO. SB-11

DATE DRILLED: 7-13-89	ELEVATION:	ML TAKEN: 7-13-89	EQUIPMENT: 3-1/4"x 6" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION		BLOWS/FT.	O.V.M. (ppm)	DRY DENSITY lb/ft³	TESTS
							ASPHALT 2" BASE 6"					
				moist	stiff	gray	Pavement badly cracked in this area. Surface infiltrati	CL/CH		60		
							Silty CLAY trace concrete rubble	CL/CH				
							Silty CLAY increase moisture			30		
5	1			very moist	medium		Clayey SILT trace fine SAND Odor	ML	6	280		
	2	▼				black	Saturated fine SAND	SP	9	30		
						gray	SILT trace fine SAND	ML				
							Bottom of Hole at 7 ft.					
10												
15												
20												

SHELL OIL COMPANY
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Oakland, California

Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-6

LOG OF BORING NO. MW-9

DATE DRILLED: 7-13-89	ELEVATION:	WL TAKEN: 7-13-89	EQUIPMENT: 6-1/4"x 10" Hollow Auger

DEPTH (ft)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	CONSISTENCY	COLOR	DESCRIPTION	WELL CONSTRUCTION	BLOWS/FT.	O.V.M. (ppm)	T.P.H. (ppm)
							Crush ROCK 2" Plastic, (topsoil)				
				slightly moist to moist	medium	brown	Silty CLAY Clayey SILT ML/CL (topsoil)				
				moist	stiff	gray	Silty CLAY CL				
5	1			s. moist	medium	light gray	Clayey SILT ML Strong odor		7	320	
	2			moist					8	460	
				wet		gray	Fine Sandy SILT ML				
							Silty SAND				
	3			wet		mottled gray	Bay Mud (tidial zone) CH/OH		6	112	
10	4						Trace calcareous with depth		5	40	
							Bottom of Hole at 10.5 ft.				
15											
20											

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Project No.
88-44-359-01

Converse Environmental Consultants California

Drawing No.
A-7

LOG OF BORING NO. SG-1

DATE DRILLED : 8/6/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION		BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
				dry		dark brown tan	Top soil. Gravelly Silts and fine Sands with abundant roots and other organic material					
				moist		gray	Sandy Gravelly Clay	GC/CL				
5							Fine to coarse Sand	SP				
				wet		black	Silty Clay (last 2")	CL				
							Total Depth of Boring at 6 ft - B.G.S.					
10												
15												
20												

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Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-2

LOG OF BORING NO. SG-2

DATE DRILLED : 8/6/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
							Top soil. Gravelly Silts and fine Sands				
				moist		tan gray	Very fine Sand grading into Silty Clay — SM/CL				
5				moist			Silty Clay — CL				
							Silty Clay grading to Silty very fine Sand — SM				
							Total Depth of Boring at 5.5 ft - B.G.S.				
10											
15											
20											

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Project No.
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Converse Environmental West

Drawing No.
A-3

LOG OF BORING NO. SG-3

DATE DRILLED : 6/6/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
							Planter, top soil				
				dry to moist		tan	Clayey Sand SC				
5				wet		dark gray	Silty Clay CL				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

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Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-4

LOG OF BORING NO. SG-4

DATE DRILLED : 8/6/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb / ft³)	TEST
							Top soil, Sandy Gravel				
				dry		red brown	Fine Sands, trace Clay SM				
5				moist		black	Fine Sandy Silts SM				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

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Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-5

LOG OF BORING NO. SG-5

DATE DRILLED : 8/6/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb / ft³)	TEST
							Top soil - Gravel				
				dry		brown	Gravelly Clay GC/CL				
5				moist		gray black	Silty Clay SM/CL				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

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Project No.
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Converse Environmental West

Drawing No.
A-6

LOG OF BORING NO. SG-6

DATE DRILLED: 8/6/90	ELEVATION:	W.L. TAKEN:	EQUIPMENT: Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS/FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
				dry		brown	Top soil Sandy Gravel GP				
5				very moist		gray	Coarse Gravel some Sand (cuttings) Coarse Sand (angular) SP				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

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Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-7

LOG OF BORING NO. SG-7

DATE DRILLED: 8/7/90 | ELEVATION: | W.L. TAKEN: | EQUIPMENT: Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
				dry			Top soil - Gravelly Sand				
	X			moist		dark gray	Gravelly Silt some Sand and Clay SM/GM				
5	X			moist		black	Clay Silty Sand, trace Gravel SM/SC				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

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285 Hegenberger Road
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Project No.
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Drawing No.
A-8

LOG OF BORING NO. SG-8

DATE DRILLED : 8/7/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
				dry		brown	Top soil - Sandy Gravel				
	X			slightly moist		brown	Sandy Silts some Clay SM				
5	X			moist		black	Silty Sands trace Clay SP				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

Shell Oil Company
285 Hegenberger Road
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Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-9

LOG OF BORING NO. SG-9

DATE DRILLED : 8/7/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb / ft^3)	TEST
						brown	Top soil - fine Sand				
	X			slightly moist		dark brown	Gravelly Sand some Silt trace Clay SP/SM		28		
5	X			moist		dark gray	Silty Sand some Clay SC		10		
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

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Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-10

LOG OF BORING NO. SG-10

DATE DRILLED : 8/7/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb / ft³)	TEST
				dry		brown	Top soil - Sandy Gravel				
	X			moist		brown	Fine Sand. Chunk of wood SP				
5	X			moist		black	Clayey Silt trace Sand SC				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

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Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-11

LOG OF BORING NO. SG-11

DATE DRILLED : 8/7/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb / ft³)	TEST
							Fill - Sandy Gravel				
				dry		brown	Fine Sands trace Silt some Gravel SP				
5				moist		black	Clayey Silt SM				
							Total Depth of Boring at 6 ft - B.G.S.				

10

15

20

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Project No.
88-44-359-20

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Drawing No.
A-12

LOG OF BORING NO. SG-12

DATE DRILLED : 8/7/90 | ELEVATION : | W.L. TAKEN : | EQUIPMENT : Hand Auger/Slide Hammer

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb / ft³)	TEST
							Top soil - Sandy Gravel				
	X			dry		tan	Silty Sand SP/SM				
5	X			moist		black	Clayey Silt trace Sand SM				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

CERTIFIED ENGINEERING GEOLOGIST
CHARLES B. COMSTOCK
No. 1010
STATE OF CALIFORNIA

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-13

LOG OF BORING NO. SG-13

DATE DRILLED: 8/7/90	ELEVATION:	W.L. TAKEN:	EQUIPMENT: Hand Auger/Slide Hammer Sampler

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / FOOT	O.V.M. (ppm)	DRY DENSITY (lb/ft^3)	TEST
							Top soil - Silty Sand				
				moist		dark gray	Clayey Silt SM				
5				very moist		black	Sandy Silt SM				
							Total Depth of Boring at 6 ft - B.G.S.				
10											
15											
20											

CERTIFIED ENGINEERING GEOLOGIST
CHARLES R. COMSTOCK
No. 1010
STATE OF CALIFORNIA

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-14

LOG OF BORING NO. SG-14

DATE DRILLED: 9/13/90 | ELEVATION: | W.L. TAKEN: | EQUIPMENT: Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / 6"	O.V.M. (ppm)	DRY DENSITY (lb / ft³)	TEST
						tan	Sandy Gravel base 6"				
				moist	loose	brown	Coarse Gravel GP				
							Sandy Gravel/Gravelly Sand SP/GP				
	1							5			
								8			
5							Silty Clay CH				
	2			wet	soft	black	Sandy Silt (last 2") ML	3			
								4			
							Total Depth of Boring at 6 ft				
10											
15											
20											

REGISTERED PROFESSIONAL GEOLOGIST
JAY A. ACH
No. 4595
STATE OF CALIFORNIA

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-15

LOG OF BORING NO. SG-15

DATE DRILLED : 9/13/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / 6"	O.V.M. (ppm)	DRY DENSITY (lb / ft³)	TEST
							Sandy Gravel base GP				
	1			slightly moist	medium dense	brown	Fine to coarse Sand SP	8 9			
5	2			moist	soft	black	Silty Clay CH				
					medium	black	Silty Sand SM	4 4			
							Total Depth of Boring at 6 ft				
10											
15											
20											

REGISTERED PROFESSIONAL GEOLOGIST
JAY A. ACH
No. 4595
STATE OF CALIFORNIA

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-16

LOG OF BORING NO. SG-16

DATE DRILLED: 9/13/90 | ELEVATION: | W.L. TAKEN: | EQUIPMENT: Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / 6"	O.V.M. (ppm)	DRY DENSITY (lb/ft³)	TEST
							Sandy Gravel base GP				
	1			moist	soft	brown black	Clayey Silt mixed with fine Sand ML/SP	4 3			
5	2			v. moist		black	Silty Sand ML	4 3			
							Total Depth of Boring at 6 ft				
10											
15											
20											

REGISTERED PROFESSIONAL GEOLOGIST
JAY A. ACH
No. 4595
STATE OF CALIFORNIA

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-17

LOG OF BORING NO. SG-1

DATE DRILLED : 9/13/90	ELEVATION :	W.L. TAKEN :	EQUIPMENT : Hand Auger

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	MOISTURE	PLASTICITY	COLOR	DESCRIPTION	BLOWS / 6"	O.V.M. (ppm)	DRY DENSITY (lb / ft^3)	TEST
							Concrete 6"				
	1			moist	loose	black	Sandy Silt, trace Gravel ML	3 3			
5	2			v. moist to wet	loose	black	Silty Sand, some Gravel SM	3 1			
							Total Depth of Boring at 6 ft				
10											
15											
20											

REGISTERED PROFESSIONAL GEOLOGIST
JAY A. ACH
No. 4595
STATE OF CALIFORNIA

Shell Oil Company
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-18

LOG OF BORING NO. VEW

Start: *11/21/91*	Geologist: *P. A. Fuller*	Driller/Helper:
Completion: *11/21/91*	Assistant Geol.: *N/A*	Drilling Method: *Hand Auger*
Water Measure: *N/A*	Drilling Co.: *Kvilhaug*	Auger/Bit Dia.:

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION		MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
					Asphalt and Base						
					Silty Clay	CL	slightly moist		gray/black		
					Sandy Clay	CL	moist		gray/black		
5					Clayey pebbly Sand	SC	very moist		black		
					Total Depth of Boring: 7 ft.						
					Casing: Blank 4" ID Sch. 40 PVC Screen: Slotted 4" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand						
10											
15											
20											

REGISTERED GEOLOGIST
GERARD L. SLATTERY
No. 5039
STATE OF CALIFORNIA

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

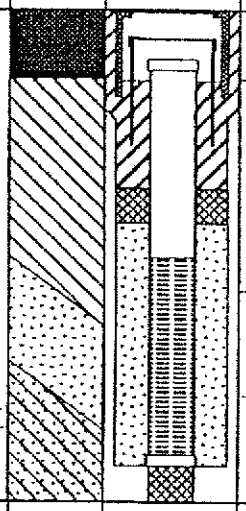
Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-2

LOG OF BORING NO. VM-^

Start: *11/21/91* Completion: *11/21/91* Water Measure: *N/A*	Geologist: *P. A. Fuller* Assistant Geol.: *N/A* Drilling Co.: *Kvilhaug*	Driller/Helper: Drilling Method: *Hand Auger* Auger/Bit Dia.:



DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION		MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
					Asphalt and Base						
					Silty Clay	CL	slightly moist		gray/black		
					Medium Sand	SP	very moist		gray/black		
5					Clayey fine Sand	SC	very moist		black		
					Total Depth of Boring: 7 ft.						
					Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand						
10											
15											
20											

REGISTERED GEOLOGIST
GERARD L. SLATTERY
No. 5038
STATE OF CALIFORNIA

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-3

LOG OF BORING NO. VM-?

Start: *11/21/91* Completion: *11/21/91* Water Measure: *N/A*	Geologist: *P. A. Fuller* Assistant Geol.: *N/A* Drilling Co.: *Kvilhaug*	Driller/Helper: Drilling Method: *Hand Auger* Auger/Bit Dia.:

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION		MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
					Asphalt and Base						
					Silty Clay	CL	slightly moist		gray green		
5					Fine Sand	SW			black		
		▽			Clayey fine Sand	SC	very moist		gray		
					Total Depth of Boring: 7 ft. Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand						
10											
15											
20											

REGISTERED GEOLOGIST
GERARD L. SLATTERY
No. 5038
STATE OF CALIFORNIA

SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-4

LOG OF BORING NO. VM-4

Start: *11/21/91* Completion: *11/21/91* Water Measure: *N/A*	Geologist: *P. A. Fuller* Assistant Geol.: *N/A* Drilling Co.: *Kvilhaug*	Driller/Helper: Drilling Method: *Hand Auger* Auger/Bit Dia.:

DEPTH (FT)	SAMPLE	WATER LEVEL	SYMBOL	WELL CONSTRUCT.	DESCRIPTION		MOISTURE	SOIL CONSISTENCY OR ROCK HARDNESS	COLOR	BLOWS / 6"	PERCENT RECOVERY
					Asphalt and Base						
					Silty Clay, some organics	CL	slightly moist		black		
5					Clay with organics	CL	moist		black		
					Sandy Clay	CL	very moist		black		
					Total Depth of Boring: 7 ft. Casing: Blank 1" ID Sch. 40 PVC Screen: Slotted 1" ID Sch. 40 PVC, 0.020" slots Filter Pack: 2/12 sand						
10											
15											
20											

REGISTERED GEOLOGIST
GERARD L. SLATTERY
No. 5038
STATE OF CALIFORNIA

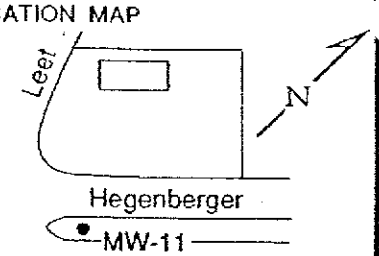
SHELL OIL COMPANY
285 Hegenberger Road
Oakland, California

Project No.
88-44-359-20

Converse Environmental West

Drawing No.
A-5

LOCATION MAP



NORTHING 847.72 | EASTING 998.93 | ELEVATION 10.56TOC

ACIFIC ENVIRONMENTAL GROU INC.

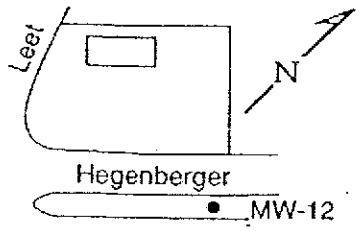
WELL NO. MW-11
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-8-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 15.5'
WELL DIAMETER: 4"
WELL DEPTH: 14'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				1–3	SM / GM	SILTY SAND / SANDY GRAVEL - FILL: strong brown; angular large chunks of brick and rock; some rusted metal.
BENTONITE	Mst	2	13	4	SM	SILTY SAND: dark brown; 25-30% silt; fine to medium sand; no product odor.
			25	5	SC	CLAYEY SAND: dark brown; 20-25% clay; fine sand.
				6	CH	CLAY: black; high plasticity; mottled with grey patches; very stiff; no product odor.
SAND	Sat	2	2	10		@10': grey to black; high plasticity; large 3-5 mm open rootholes and cracks filled with water; iron oxide stain along fractures; reeds and roots; firm; no product odor.
			5			
	Sat	0	3	14		@14': dark grey; high plasticity; water filled rootholes; roots; stiff; no product odor.
			11			
				15		BOTTOM OF BORING AT 15.5'

LOCATION MAP



NORTHING 995.66 | EASTING 1088.10 | ELEVATION 9.56TOC

PACIFIC ENVIRONMENTAL GROUP, INC.

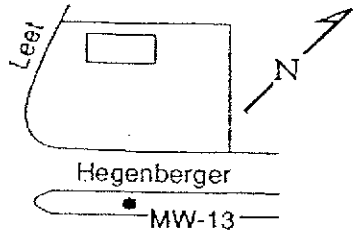
WELL NO. MW-12
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-8-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 15.5'
WELL DIAMETER: 4"
WELL DEPTH: 15'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				1–3	SM	SILTY SAND
	Dp			1–3	GM	SANDY GRAVEL - FILL: large angular chuncks of iron oxide stained chert.
	Mst	3	P	4–5	ML	CLAYEY SILT: sandy; dark greyish brown; 20-25% clay; 15-20% very fine sand; iron oxide staining along tiny roots; no product odor.
BENTONITE				6–8	CH	CLAY: black; high plasticity; roots; rootholes; rootholes filled with water; soft; no product odor.
SAND	Sat	4	3 2	9–10		
	Sat	0	9 10	12.5–15		@12.5': greenish grey; high plasticity; 0-5% silt; calcite nodules; roots and water filled rootholes; stiff; no product odor.
						BOTTOM OF BORING AT 15.5'

LOCATION MAP



NORTHING 914.88 | EASTING 1039.19 | ELEVATION 10.10TOC

ACIFIC ENVIRONMENTAL GROU , INC.

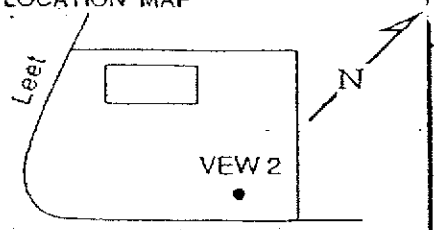
WELL NO. MW-13
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-10-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 15.5'
WELL DIAMETER: 4"
WELL DEPTH: 15'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				1			SM	SILTY SAND
				2			GW	SANDY GRAVEL - FILL: large angular chuncks of iron oxide stained chert; no product odor.
				3				
				4			SC	CLAYEY SAND: silty; olive brown; 30-35% clay; 20-25% silt; very fine sand; roots; loose; no product odor.
	Mst	0	8	5				
			4	6				
BENTONITE				7				
				8				
SAND				9			CL	CLAY: dark greyish brown; moderate plasticity; 10-15% silt; iron oxide stain along roots; no product odor.
	Mst	0	3	10			CH	CLAY: black; high plasticity; roots; odor of decaying organics; firm; no product odor.
			3	11				
				12				
				13				
				14				
	Mst	0	8	15				CLAY: dark greenish grey; high plasticity; calcite nodules and caliche; roots; stiff; no product odor.
			6	16				BOTTOM OF BORING AT 15.5'
				17				
				18				
				19				
				20				
				21				
				22				

LOCATION MAP



NORTHING EASTING ELEVATION

CIFIC ENVIRONMENTAL GROU NC.

WELL NO. VEW 2
PAGE 1 OF 1

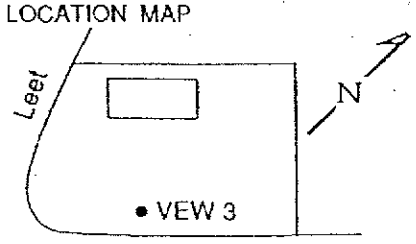
PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-9-93
LOCATION: 285 Hegenberger Rd
HOLE DIAMETER: 10"
HOLE DEPTH: 8.5'
WELL DIAMETER: 2"
WELL DEPTH: 8.5' and 6.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT	Dp			1			SC	ASPHALT 2" CLAYEY SAND - FILL: gravelly; strong brown; 20-25% clay; fine to coarse sand; 15-20% angular gravel.
				2			CL	CLAY: dark greenish grey to black; moderate plasticity; moderate product odor becoming strong product odor at 3 feet; roots.
	Mst			3				
SAND	Wet	100	5 4	4			SM	SILTY SAND: dark grey; 30-35% silt; very fine sand; roots; loose; strong product odor.
	Mst			5				
				6			CH	CLAY: black; high plasticity; roots; strong product odor.
				7			ML	CLAYEY SILT: with sand lenses; dark grey to black; moderate plasticity; horizontal laminae; roots; sand lenses of fine to medium sand up to 2 inches thick; soft; strong product odor.
	Sat	80	1 4	8				
SAND				9			CL	CLAY: dark grey; moderate plasticity; moderate product odor.
BENTONITE				10				
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				
				21				
				22				

BOTTOM OF BORING AT 8.5'

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GRO , INC.

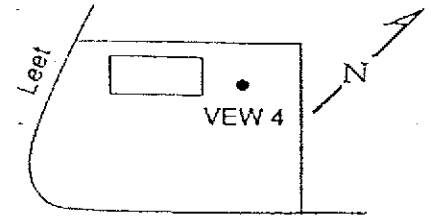
WELL NO. VEW 3
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-10-93
LOCATION: 285 Hegenberger Road
HOLE DIAMETER: 10"
HOLE DEPTH: 10'
WELL DIAMETER: 2"
WELL DEPTH: 8.5' and 6'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				1			GW	ASPHALT 2" SANDY GRAVEL - FILL: strong brown.
	Mst			2			CL	SILTY CLAY: black; moderate plasticity; 20-25% silt; roots; no product odor.
				3				
SAND				4			CH	CLAY: black; high plasticity; roots; stiff; strong product odor.
	Mst	120	8 6	5				
				6				
				7			SM	SILTY SAND: dark blue grey; 5-10% clay; 15-20% silt; very fine sand; roots; separate phase hydrocarbon sheen along roots; soft; strong product odor.
	Sat	80	2 2	8				
SAND	Mst	15	3 2	9			CH	CLAY: dark greenish grey to black; high plasticity; abundant roots; at 9.5'; 3-4" thick peat horizon; soft; moderate product odor.
BENTONITE				10				BOTTOM OF BORING AT 10'
				11				
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				
				21				
				22				

LOCATION MAP



NORTHING EASTING ELEVATION

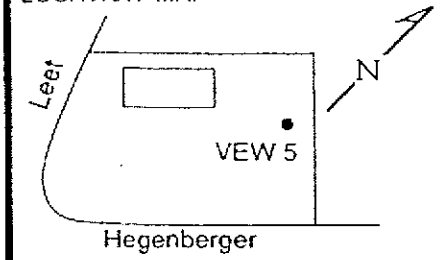
ACIFIC ENVIRONMENTAL GROU INC.

WELL NO. VEW 4
PAGE 1 OF 1

PROJECT NO. 305-79.01	CLIENT: SHELL
LOGGED BY: CM	DATE DRILLED: 6-9-93
DRILLER: GREGG	LOCATION: 285 Hegenberger Rd.
DRILLING METHOD: HSA	HOLE DIAMETER: 10"
SAMPLING METHOD: CAL MOD	HOLE DEPTH: 9.5'
CASING TYPE: Sch 40 PVC	WELL DIAMETER: 2"
SLOT SIZE: 0.020"	WELL DEPTH: 9' and 6.5'
GRAVEL PACK: 2X12	CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				1			SC	ASPHALT 2" CLAYEY SAND - FILL: gravelly; strong brown; 25-30% clay; fine to medium sand; 15-20% gravel; no product odor.
				2				
				3			CL	CLAY: dark grey to black; moderate plasticity; faint product odor.
SAND	Wet	14	12	4			CL/ SW	SILTY SAND with CLAY: (interbedded); silty sand: dark grey; 15-20% silt; fine to medium sand; faint product odor; clay: dark grey; moderate plasticity; some rootlets; very stiff; faint product odor.
			12	5				
				6				
	Sat	7	7	7				@7.5': firm; faint product odor.
			4	8				
	Sat	0	8	9			SM	SILTY SAND: dark grey; 15-20% silt; very fine sand; faint to no product odor.
			4				ML	CLAYEY SILT: dark grey; 25-30% clay; 10-15% very fine sand; firm; faint to no product odor.
SAND				10				
BENTONITE				11				BOTTOM OF BORING AT 9.5'
				12				
				13				
				14				
				15				
				16				
				17				
				18				
				19				
				20				
				21				
				22				

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. VEW 5
PAGE 1 OF 1

PROJECT NO. 305-79.01
LOGGED BY: CM
DRILLER: GREGG
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 2X12

CLIENT: SHELL
DATE DRILLED: 6-9-93
LOCATION: 285 Hegenberger Rd.
HOLE DIAMETER: 10"
HOLE DEPTH: 9'
WELL DIAMETER: 2"
WELL DEPTH: 8.5' and 6.5'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	SOIL TYPE	LITHOLOGY / REMARKS
					Note: 1st hole had 2 1" pipes and 1.5'. Broke one line but it appears abandoned.
GROUT				SW	ASPHALT 2" GRAVELLY SAND - FILL: clayey; strong brown; 20-25% clay; 25-30% large angular rocks; no product odor.
				CL	CLAY: mottled grey and brown; moderate plasticity; 5-10% fine to medium sand; staining (grey) and moderate to strong product odor begins at 3.5'.
SAND	Sat	150	9 8	CH/ SW	CLAY and SAND: (interbedded); clay: dark greenish grey; high plasticity; strong product odor; sand: dark greenish grey; 5-10% silt; fine to medium sand; stiff; strong product odor.
	Sat	30	2 2	CH	CLAY: soft; moderate to faint product odor.
SAND / BENTONITE					BOTTOM OF BORING AT 9'

DEPTH (FEET): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

RECOVERY / SAMPLE INTERVAL / GRAPHIC

Cambria Environmental ...nology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-1
JOB/SITE NAME	Oakland 285	**DRILLING STARTED**	18-Mar-99
LOCATION	285 Hegenberger Road, Oakland, California	**DRILLING COMPLETED**	18-Mar-99
PROJECT NUMBER	241-0734	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	M. Paves	**DEPTH TO WATER (First Encountered)**	6.0 ft (18-Mar-99) ▽
REVIEWED BY		**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand augered to 9.5' bgs.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	BORING BACKFILL
					SC		Gravelly Clayey SAND; (SC); brown; 20% clay, 10% silt, 50% sand, 20% gravel; low plasticity; high estimated permeability.		
		SB-1 -5.5'		5			@ 5' - wet. ▽	7.0	Portland Type I/II
					CL		Sandy CLAY; (CL); green to brown; wet; 50% clay, 10% silt, 30% sand, 10% gravel; medium plasticity; low estimated permeability.		
		SB-1 -10.0'		10				11.5	Bottom of Boring @ 11.5 ft

BOR LOG (TPH-G) G:\OAKLAND\285.GPJ DEFAULT.GDT 4/26/00

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-2
JOB/SITE NAME	Oakland 285	DRILLING STARTED	18-Mar-99
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	18-Mar-99
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	M. Paves	DEPTH TO WATER (First Encountered)	5.0 ft (18-Mar-99)
REVIEWED BY		DEPTH TO WATER (Static)	6.50 ft
REMARKS	Hand augered to 6' bgs.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	BORING BACKFILL
							ASPHALT.	0.5	
							SAND; (FILL); brown.		
							@ 1' - Silty SAND (FILL).	3.0	
					SP		Gravelly SAND; (SP); greenish brown; moist; 10% clay, 10% silt, 50% sand, 30% gravel; low plasticity; high estimated permeability.	3.5	
					CL		Gravelly Sandy CLAY; (CL); greenish brown; moist; 50% clay, 10% silt, 20% sand, 20% gravel; medium plasticity; moderate estimated permeability.	5.0	
		SB-2 -6.0'		5	SP		Gravelly Silty SAND; (SP); dark brown; wet; 10% clay, 20% silt, 50% sand, 20% gravel; low plasticity; high estimated permeability.	7.5	Portland Type I/II
		SB-2 -7.5'			SP		Gravelly SAND; (SP); light brown; wet; 10% clay, 10% silt; 50% sand, 30% gravel; low plasticity; high estimated permeability.	9.5	
		SB-2 -10.0'		10	CH		Silty CLAY; (CH); gray; moist; 60% clay, 30% silt, 10% sand; high plasticity; low estimated permeability.	12.0	
		SB-2 -11.5'					No Recovery.		
				15				15.0	Bottom of Boring @ 15 ft

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Oakland, CA 94608
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-3
JOB/SITE NAME	Oakland 285	DRILLING STARTED	18-Mar-99
LOCATION	285 Hegenberger Road, Oakland, California	DRILLING COMPLETED	18-Mar-99
PROJECT NUMBER	241-0734	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	M. Paves	DEPTH TO WATER (First Encountered)	6.0 ft (18-Mar-99) ▽
REVIEWED BY		DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand augered to 5' bgs.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	BORING BACKFILL
							ASPHALT.	0.4	
							Sandy FILL; (FILL); dry; light brown.		
							@ 2' - green; 10% clay, 10% silt, 50% sand, 30% gravel; low plasticity; high estimated permeability.	3.5	
					GP		Sandy GRAVEL; (GP); dry; 10% silt, 30% sand, 60% gravel; low plasticity; high estimated permeability.	5.0	
				5			No recovery. ▽	6.0	
					SP		Gravelly SAND; (GP); green; wet; 5% clay, 10% silt, 50% sand, 35% gravel; low plasticity; high estimated permeability.	7.3	
		SB-3 -7.0'			CL		Sandy Gravelly CLAY; (CL); greenish gray; wet; 50% clay, 10% silt, 20% sand, 20% gravel; medium plasticity; moderate estimated permeability.	8.8	◄ Portland Type I/II
		SB-3 -8.5'			SP		Gravelly SAND; (SP); wet.	10.3	
		SB-3 -10.0'		10	CL		Silty Sandy CLAY; (CL); greenish gray; wet; 50% clay, 20% silt, 20% sand, 10% gravel; medium plasticity; moderate estimated permeability.	11.0	
		SB-3 -11.0'			CH		Silty CLAY; (CL); gray; stiff; moist; 60% clay, 30% silt, 10% sand; high plasticity; low estimated permeability.	14.0	
		SB-3 -14.5'		15	CL		Gravelly Sandy CLAY; (CL); brownish gray; moist; 50% clay, 30% sand, 20% gravel; low plasticity; low to moderate estimated permeability.	16.0	
		SB-3 -16.5'			CH		Silty CLAY; (CH); green brown; moist; 60% clay, 30% silt, 10% sand; high plasticity; low estimated permeability.	17.0	Bottom of Boring @ 17 ft

BOR LOG (TPH-G) G:\OA191C-HGINTOK\LND285.GPJ DEFAULT.GDT 4/26/00

ATTACHMENT B

Historical Groundwater Monitoring Data

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

February 11, 2005

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

First Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Monitoring performed on January 10, 2005

Groundwater Monitoring Report **050110-MD-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: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	02/16/1989	99,000	NA	NA	20,000	23,000	5,700	2,300	NA	NA	NA	NA	NA	NA	6.64	3.83	2.81	NA
MW-1	05/23/1989	48,000	11,000	NA	4,200	5,200	1,200	7,700	NA	NA	NA	NA	NA	NA	6.64	3.59	3.05	NA
MW-1	08/03/1989	63,000	11,000	NA	5,500	5,500	3,200	9,500	NA	NA	NA	NA	NA	NA	6.64	4.04	2.60	NA
MW-1	12/15/1989	30,000	11,000	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	6.64	4.22	2.42	NA
MW-1	02/07/1990	93,000	10,000	NA	13,000	9,600	2,400	14,000	NA	NA	NA	NA	NA	NA	6.64	4.60	2.04	NA
MW-1	04/18/1990	55,000	8,700	NA	14,000	8,400	3,200	13,000	NA	NA	NA	NA	NA	NA	6.64	4.02	2.62	NA
MW-1	07/23/1990	73,000	3,600	NA	16,000	7,400	2,800	15,000	NA	NA	NA	NA	NA	NA	6.64	4.17	2.47	NA
MW-1	09/27/1990	45,000	1,700	NA	8,000	4,300	2,000	11,000	NA	NA	NA	NA	NA	NA	6.64	4.60	2.04	NA
MW-1	01/03/1991	43,000	3,100	NA	10,000	3,400	1,900	11,000	NA	NA	NA	NA	NA	NA	6.64	4.88	1.76	NA
MW-1	04/10/1991	67,000	1,800	NA	20,000	9,600	3,500	16,000	NA	NA	NA	NA	NA	NA	6.64	3.55	3.09	NA
MW-1	07/12/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.64	3.97	2.67	NA
MW-1	10/08/1991	55,000	7,400	NA	18,000	3,500	2,300	8,600	NA	NA	NA	NA	NA	NA	6.64	4.26	2.38	NA
MW-1	02/06/1992	48,000	15,000 a	NA	12,000	2,800	1,900	7,400	NA	NA	NA	NA	NA	NA	6.64	4.94	1.70	NA
MW-1	05/04/1992	71,000	10,000 a	NA	16,000	6,000	3,100	14,000	NA	NA	NA	NA	NA	NA	6.64	3.58	3.06	NA
MW-1	07/28/1992	68,000	18,000 a	NA	21,000	5,500	3,400	15,000	NA	NA	NA	NA	NA	NA	6.64	3.91	2.73	NA
MW-1 (D)	07/28/1992	70,000	19,000 a	NA	17,000	5,000	2,700	13,000	NA	NA	NA	NA	NA	NA	6.64	3.91	2.73	NA
MW-1	10/27/1992	53,000	1,300	NA	18,000	3,700	3,400	11,000	NA	NA	NA	NA	NA	NA	6.64	4.79	1.85	NA
MW-1 (D)	10/27/1992	48,000	2,500 a	NA	17,000	3,600	3,100	9,900	NA	NA	NA	NA	NA	NA	6.64	4.79	1.85	NA
MW-1	01/14/1993	84,000	2,200 a	NA	17,000	5,400	3,000	13,000	NA	NA	NA	NA	NA	NA	6.64	3.39	3.25	NA
MW-1	04/23/1993	100,000	2,300 a	NA	18,000	7,800	4,700	20,000	NA	NA	NA	NA	NA	NA	6.64	2.67	3.97	NA
MW-1	07/20/1993	41a	3,100 a	NA	12,000	870	1,500	4,400	NA	NA	NA	NA	NA	NA	9.50	3.48	6.02	NA
MW-1	10/18/1993	33,000	8,100 a	NA	14,000	1,200	2,000	4,900	NA	NA	NA	NA	NA	NA	9.50	4.20	5.30	NA
MW-1 (D)	10/18/1993	44,000	3,700 a	NA	14,000	1,200	2,000	4,900	NA	NA	NA	NA	NA	NA	9.50	4.20	5.30	NA
MW-1	01/06/1994	71,000	9,000 a	NA	9,000	870	1,600	5,100	NA	NA	NA	NA	NA	NA	9.50	4.13	5.37	NA
MW-1	04/12/1994	42,000	5,900	NA	6,600	170	2,300	4,700	NA	NA	NA	NA	NA	NA	9.50	2.42	7.08	NA
MW-1 (D)	04/12/1994	40,000	4,700	NA	6,300	180	2,000	4,400	NA	NA	NA	NA	NA	NA	9.50	2.42	7.08	NA
MW-1	07/25/1994	13,000	7,000 a	NA	4,400	110	460	1,400	NA	NA	NA	NA	NA	NA	9.50	3.37	6.13	NA
MW-1	10/25/1994	19,000	3,900	NA	5,500	210	880	2,000	NA	NA	NA	NA	NA	NA	9.50	4.07	5.43	NA
MW-1	01/09/1995	37,000	8,600 a	NA	6,700	800	2,800	8,900	NA	NA	NA	NA	NA	NA	9.50	2.65	6.85	NA
MW-1	04/11/1995	26,000	5,500	NA	4,700	270	1,800	3,400	NA	NA	NA	NA	NA	NA	9.50	2.38	7.12	NA
MW-1	07/18/1995	57,000	7,000	NA	7,500	880	4,100	11,000	NA	NA	NA	NA	NA	NA	9.50	3.49	6.01	NA
MW-1 (D)	07/19/1995	46,000	6,600	NA	6,000	670	3,200	7,500	NA	NA	NA	NA	NA	NA	9.50	3.49	6.01	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	10/18/1995b	37,000	3,200	NA	5,400	450	2,600	7,400	10,000	NA	NA	NA	NA	NA	9.50	NA	NA	NA
MW-1	01/09/1996	32,000	NA	NA	3,000	240	1,900	3,500	6,100	NA	NA	NA	NA	NA	9.50	2.95	6.55	NA
MW-1	04/02/1996	30,000	NA	NA	3,100	260	2.0	3,900	8.0	NA	NA	NA	NA	NA	9.50	2.00	7.50	NA
MW-1	10/03/1996	18,000	2,800	NA	3,000	120	1,200	1,700	7,500	NA	NA	NA	NA	NA	9.50	3.21	6.29	2.2
MW-1	04/03/1997	29,000	3,000	NA	2,300	170	2,300	2,900	4,300	NA	NA	NA	NA	NA	9.50	2.84	6.66	2.2
MW-1	10/08/1997	22,000	3,600	NA	920	71	2,400	2,200	820	NA	NA	NA	NA	NA	9.50	2.58	6.92	1.5
MW-1	06/10/1998	13,000	2,900	NA	860	<100	1,300	500	29,000	32,000	NA	NA	NA	NA	9.50	2.67	6.83	0.5/0.5
MW-1 (D)	06/10/1998	9,400	2,100	NA	870	<50	1,300	520	28,000	NA	NA	NA	NA	NA	9.50	2.67	6.83	0.5/0.5
MW-1	12/30/1998	6,930	1,540	NA	714	52.7	243	<25.0	9,000	NA	NA	NA	NA	NA	9.50	4.68	4.82	1.6/1.4
MW-1 *	06/25/1999	12,600	NA	NA	1,110	44.7	1,340	710	6,080	NA	NA	NA	NA	NA	9.50	2.86	6.64	1.2/2.1
MW-1	12/28/1999	3,260	1,170	NA	527	14.0	50.7	40.3	5,430	7,060b	NA	NA	NA	NA	9.50	3.23	6.27	1.4/1.8
MW-1	05/31/2000	6,820	2,050	NA	1,620	<50.0	116	<50.0	6,070	4,710	NA	NA	NA	NA	9.50	2.39	7.11	0.98/2.27
MW-1	10/17/2000	2,530	995 a	NA	388	<10.0	16.4	22.1	917	NA	NA	NA	NA	NA	9.50	2.05	7.45	4.0/3.1
MW-1	05/01/2001	12,300	1,510	NA	1,480	19.5	205	111	4,160	NA	NA	NA	NA	NA	9.50	3.55	5.95	1.6/1.3
MW-1	11/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.85 e	4.43	5.42	0.4
MW-1	11/07/2001	3,000	<1,000	NA	290	6.0	11	15	NA	870	NA	NA	NA	NA	9.85	4.00	5.85	2.1/1.4
MW-1	05/01/2002	11,000	<2,000	NA	2,100	29	180	68	NA	1,500	NA	NA	NA	NA	9.85	3.14	6.71	3.4/2.3
MW-1	07/16/2002	7,400	<1,500	NA	1,200	22	37	24	NA	1,900	NA	NA	NA	NA	9.85	3.69	6.16	0.9/0.8
MW-1	10/17/2002	4,600	<2,000	NA	810	16	68	31	NA	1,600	NA	NA	NA	NA	9.44	4.76	4.68	0.8/1.2
MW-1	01/21/2003	11,000	<7,000	NA	1,100	28	210	53	NA	1,100	NA	NA	NA	NA	9.44	3.50	5.94	0.3/0.7
MW-1	05/01/2003	13,000	4,900 a	NA	1,500	33	260	68	NA	1,700	NA	NA	NA	NA	9.44	3.04	6.40	NA
MW-1	07/17/2003	10,000	3,200 a,f	NA	2,400	<50	250	<100	NA	3,100	NA	NA	NA	NA	9.44	3.92	5.52	NA
MW-1	10/02/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.44	NA	NA	NA
MW-1	10/16/2003	8,500	3,700 a	NA	1,100	26	140	41	NA	1,700	NA	NA	NA	NA	9.44	4.65	4.79	NA
MW-1	01/05/2004	11,000	4,300 a	NA	1,600	29	200	45	NA	1,400	NA	NA	NA	NA	9.44	2.39	7.05	NA
MW-1	04/01/2004	10,000	3,700 a	NA	1,500	28	330	59	NA	630	NA	NA	NA	NA	9.44	3.06	6.38	NA
MW-1	08/02/2004	9,100	4,600 a	<1,000	1,700	17	200	24	NA	1,700	<40	<40	<40	2,900	9.44	4.50	4.94	NA
MW-1	11/02/2004	9,100	3,100 g	<500	2,100	50	140	70	NA	680	NA	NA	NA	NA	9.44	3.08	6.36	NA
MW-1	**01/10/2005**	**21,000**	**3,600 g**	**<500**	**2,700**	**31**	**1,000**	**880**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**9.44**	**2.43**	**7.01**	**NA**
MW-2	02/16/1989	20,000	NA	NA	200	900	2,700	9,600	NA	NA	NA	NA	NA	NA	7.68	5.33	2.35	NA
MW-2	05/23/1989	1,500	1,600	NA	4.3	2.9	11	150	NA	NA	NA	NA	NA	NA	7.68	5.23	2.45	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	08/03/1989	15,000	7,400	NA	75	120	850	2,200	NA	NA	NA	NA	NA	NA	7.68	6.03	1.65	NA
MW-2	12/15/1989	5,000	2,600	NA	52	13	4.1	290	NA	NA	NA	NA	NA	NA	7.68	6.43	1.25	NA
MW-2	02/07/1990	13,000	4,800	NA	32	34	230	640	NA	NA	NA	NA	NA	NA	7.68	5.82	1.86	NA
MW-2	04/18/1990	9,800	3,200	NA	33	19	460	1,700	NA	NA	NA	NA	NA	NA	7.68	5.88	1.80	NA
MW-2	07/23/1990	9,600	2,700	NA	41	27	540	940	NA	NA	NA	NA	NA	NA	7.68	6.05	1.63	NA
MW-2	10/01/1990	390	1,600	NA	3.4	15	8.5	25	NA	NA	NA	NA	NA	NA	7.68	NA	NA	NA
MW-2	01/03/1991	1,800	830	NA	56	4.4	4.8	92	NA	NA	NA	NA	NA	NA	7.68	6.82	0.86	NA
MW-2	04/10/1991	1,900	280	NA	ND	28	140	490	NA	NA	NA	NA	NA	NA	7.68	4.80	2.88	NA
MW-2	07/12/1991	8,100	1,100	NA	89	66	350	930	NA	NA	NA	NA	NA	NA	7.68	5.70	1.98	NA
MW-2	10/08/1991	1,400	2,600	NA	5.1	1.5	36	270	NA	NA	NA	NA	NA	NA	7.68	6.40	1.28	NA
MW-2	02/06/1992	2,000	5,400 a	NA	7.8	2.5	130	210	NA	NA	NA	NA	NA	NA	7.68	6.40	1.28	NA
MW-2	05/04/1992	21	1,000	NA	ND	ND	300	960	NA	NA	NA	NA	NA	NA	7.68	4.68	3.00	NA
MW-2	07/28/1992	2,100	830 a	NA	7.7	3.3	130	310	NA	NA	NA	NA	NA	NA	7.68	5.86	1.82	NA
MW-2	10/27/1992	1,100	530	NA	16	3.1	4.5	25	NA	NA	NA	NA	NA	NA	7.68	6.96	0.72	NA
MW-2	01/14/1993	290	170 a	NA	5.2	3.1	8.4	21	NA	NA	NA	NA	NA	NA	7.68	4.12	3.56	NA
MW-2	04/23/1993	2,400	1,200 a	NA	ND	ND	210	610	NA	NA	NA	NA	NA	NA	7.68	3.84	3.84	NA
MW-2	07/20/1993	440	130	NA	1.7	1.7	15	38	NA	NA	NA	NA	NA	NA	10.55	5.17	5.38	NA
MW-2	10/18/1993	2,100	1,600 a	NA	ND	ND	90	110	NA	NA	NA	NA	NA	NA	10.55	6.20	4.35	NA
MW-2	01/06/1994	1.9a	130	NA	ND	6.7	7.1	12	NA	NA	NA	NA	NA	NA	10.55	5.39	5.16	NA
MW-2	04/12/1994	120	130	NA	ND	ND	3.4	4.3	NA	NA	NA	NA	NA	NA	10.55	4.72	5.83	NA
MW-2	07/25/1994	0.18a	280 a	NA	5.3	ND	6.2	8.2	NA	NA	NA	NA	NA	NA	10.55	5.44	5.11	NA
MW-2	10/25/1994	170	400	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.55	6.73	3.82	NA
MW-2	01/09/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.55	4.34	6.21	NA
MW-2	04/11/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.55	3.72	6.83	NA
MW-2	07/18/1995	250	160	NA	2.8	0.5	12	13	NA	NA	NA	NA	NA	NA	10.55	4.91	5.64	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	5.88	4.67	NA
MW-2	01/09/1996	790	130	NA	5.1	1.5	2.4	4.6	1,400	NA	NA	NA	NA	NA	10.55	4.75	5.80	NA
MW-2	04/02/1996	260	NA	NA	<2	<2	13	6.9	540	NA	NA	NA	NA	NA	10.55	3.25	7.30	NA
MW-2	10/03/1996	<2,000	620	NA	<20	<20	<20	<20	13,000	NA	NA	NA	NA	NA	10.55	5.27	5.28	2.3
MW-2	04/03/1997	<1,000	190	NA	<10	<10	<10	<10	2,800	NA	NA	NA	NA	NA	10.55	3.99	6.56	2.2
MW-2	10/08/1997	<5,000	1,100	NA	<50	<50	<50	<50	d	NA	NA	NA	NA	NA	10.55	5.03	5.52	1.6
MW-2	06/10/1998	120	310	NA	1.7	<1.0	<1.0	<1.0	3,800	NA	NA	NA	NA	NA	10.55	4.11	6.44	0.7/0.6

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	12/30/1998	<5,000	1,050	NA	<50.0	<50.0	<50.0	<50.0	12,100	15,300	NA	NA	NA	NA	10.55	4.76	5.79	1.3/1.2
MW-2 *	06/25/1999	<1,000	NA	NA	<10.0	<10.0	<10.0	<10.0	7,570	NA	NA	NA	NA	NA	10.55	4.63	5.92	2.3/2.5
MW-2	12/28/1999	228	446	NA	4.54	<0.500	<0.500	<0.500	4,260	NA	NA	NA	NA	NA	10.55	4.95	5.60	2.1/2.4
MW-2	05/31/2000	597	187	NA	19.3	<0.500	0.860	<0.500	2,480	NA	NA	NA	NA	NA	10.55	4.06	6.49	1.8/2.7
MW-2	10/17/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	NA	NA
MW-2	05/01/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	NA	NA
MW-2	11/05/2001	<500	610	NA	<5.0	<5.0	<5.0	<5.0	NA	1,800	NA	NA	NA	NA	10.55	6.12	4.43	0.6/1.1
MW-2	05/01/2002	440	<50	NA	<2.5	<2.5	<2.5	<2.5	NA	1,300	NA	NA	NA	NA	10.55	3.85	6.70	6.2/0.9
MW-2	07/16/2002	<500	250	NA	<5.0	<5.0	<5.0	<5.0	NA	2,100	NA	NA	NA	NA	10.55	4.56	5.99	0.9/1.3
MW-2	10/17/2002	280	240	NA	<1.0	<1.0	<1.0	<1.0	NA	270	NA	NA	NA	NA	10.10	5.90	4.20	0.6/2.2
MW-2	01/21/2003	160	72	NA	<0.50	<0.50	<0.50	<0.50	NA	380	NA	NA	NA	NA	10.10	4.11	5.99	0.5/1.0
MW-2	05/01/2003	350	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	110	NA	NA	NA	NA	10.10	4.18	5.92	NA
MW-2	07/17/2003	120	61 a,f	NA	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	NA	10.10	4.72	5.38	NA
MW-2	10/02/2003	190	200 a	NA	1.6	<0.50	<0.50	<1.0	NA	17	NA	NA	NA	NA	10.10	5.76	4.34	NA
MW-2	01/05/2004	77	<50	NA	<0.50	0.86	<0.50	<1.0	NA	1.3	NA	NA	NA	NA	10.10	3.28	6.82	NA
MW-2	04/01/2004	450 a	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	1.6	NA	NA	NA	NA	10.10	3.71	6.39	NA
MW-2	08/02/2004	110	130 a	<500	<0.50	<0.50	<0.50	<1.0	NA	3.9	<2.0	<2.0	<2.0	150	10.10	5.50	4.60	NA
MW-2	11/02/2004	130	55 a	<500	<0.50	<0.50	<0.50	<1.0	NA	1.7	NA	NA	NA	NA	10.10	4.37	5.73	NA
MW-2	**01/10/2005**	**81**	**<50**	**<500**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**0.65**	**NA**	**NA**	**NA**	**NA**	**10.10**	**3.70**	**6.40**	**NA**
MW-3	02/16/1989	60,000	NA	NA	5,500	ND	3,200	5,200	NA	NA	NA	NA	NA	NA	7.81	5.17	2.64	NA
MW-3	05/23/1989	ND	1,500	NA	ND	200	ND	ND	NA	NA	NA	NA	NA	NA	7.81	5.09	2.72	NA
MW-3	08/03/1989	2,000	1,200	NA	120	ND	ND	86	NA	NA	NA	NA	NA	NA	7.81	5.34	2.47	NA
MW-3	12/15/1989	5,200	1,700	NA	380	12	17	410	NA	NA	NA	NA	NA	NA	7.81	6.02	1.79	NA
MW-3	02/07/1990	260	230	NA	17	47	5.4	2.5	NA	NA	NA	NA	NA	NA	7.81	4.95	2.86	NA
MW-3	04/18/1990	260	ND	NA	ND	ND	ND	9.4	NA	NA	NA	NA	NA	NA	7.81	5.55	2.26	NA
MW-3	07/23/1990	510	210	NA	46	ND	ND	9.3	NA	NA	NA	NA	NA	NA	7.81	5.81	2.00	NA
MW-3	09/27/1990	460	350	NA	6.3	1.2	ND	15	NA	NA	NA	NA	NA	NA	7.81	6.86	0.95	NA
MW-3	01/03/1991	4,800	630	NA	920	1.7	ND	190	NA	NA	NA	NA	NA	NA	7.81	6.84	0.97	NA
MW-3	04/10/1991	120	60	NA	1.2	8.8	3.5	21	NA	NA	NA	NA	NA	NA	7.81	4.93	2.88	NA
MW-3	07/12/1991	430	ND	NA	12	0.8	ND	7.7	NA	NA	NA	NA	NA	NA	7.81	5.56	2.25	NA
MW-3	10/08/1991	770	560	NA	140	ND	ND	53	NA	NA	NA	NA	NA	NA	7.81	6.62	1.19	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	02/06/1992	500	340 a	NA	74	0.7	5.2	5.3	NA	NA	NA	NA	NA	NA	7.81	6.28	1.53	NA
MW-3	05/04/1992	310	290 a	NA	47	0.9	17	16	NA	NA	NA	NA	NA	NA	7.81	4.65	3.16	NA
MW-3	07/28/1992	780	100 a	NA	130	ND	13	4.2	NA	NA	NA	NA	NA	NA	7.81	5.56	2.25	NA
MW-3	10/27/1992	740	69a	NA	92	ND	7.8	9.6	NA	NA	NA	NA	NA	NA	7.81	6.65	1.16	NA
MW-3	01/14/1993	ND	ND	NA	2.4	2.8	ND	ND	NA	NA	NA	NA	NA	NA	7.81	3.88	3.93	NA
MW-3	04/23/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.81	NA	NA	NA
MW-3	07/20/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	NA	NA	NA
MW-3	10/18/1993b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	NA	NA	NA
MW-3	01/06/1994	130	64	NA	1.7	ND	ND	0.93	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.54	NA	NA
MW-3	04/12/1994	ND	75	NA	0.82	ND	ND	0.7	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.82	NA	NA
MW-3	07/25/1994	0.06a	ND	NA	2.8	ND	ND	0.7	NA	NA	NA	NA	NA	NA	11.25 (TOB)	6.03 (TOB)	5.22	NA
MW-3	10/25/1994	70	100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	6.48	NA	NA
MW-3	01/09/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.86 (TOB)	6.39	NA
MW-3	04/11/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	4.22 (TOB)	7.03	NA
MW-3	07/18/1995	ND	90	NA	2.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.44 (TOB)	5.81	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.72	NA	NA
MW-3	01/09/1996	90	90	NA	1.7	ND	<0.5	<0.5	61	NA	NA	NA	NA	NA	11.25 (TOB)	4.96	NA	NA
MW-3	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	24	NA	NA	NA	NA	NA	11.25 (TOB)	3.43	NA	NA
MW-3	10/03/1996	<500	180	NA	<5	<5	<5	<5	1,200	NA	NA	NA	NA	NA	11.25 (TOB)	5.39	NA	2.4
MW-3	04/03/1997	150	83	NA	3.2	<0.50	<0.50	0.81	280	NA	NA	NA	NA	NA	11.25 (TOB)	4.20	NA	2.0
MW-3	10/08/1997	180	120	NA	7.3	0.68	0.54	3.9	1,700	NA	NA	NA	NA	NA	11.25 (TOB)	5.51(TOB)	5.74	2.1
MW-3	06/10/1998	130	120	NA	12	0.85	<0.50	2.1	600	NA	NA	NA	NA	NA	11.25 (TOB)	3.91(TOB)	7.34	0.8/0.9
MW-3	12/30/1998	<250	108	NA	<2.50	<2.50	<2.50	<2.50	1,010	NA	NA	NA	NA	NA	11.25 (TOB)	5.76 (TOB)	5.49	1.3/1.4
MW-3 *	06/25/1999	269	NA	NA	4.24	<2.50	<2.50	<2.50	1,180	NA	NA	NA	NA	NA	11.25 (TOB)	4.73	NA	1.4/1.9
MW-3	12/28/1999	333	122	NA	41.4	6.48	6.57	21.3	2,680	NA	NA	NA	NA	NA	11.25 (TOB)	5.75 (TOB)	5.50	1.3/1.5
MW-3	05/31/2000	1,180	89.2	NA	19.1	1.92	3.26	<1.00	2,130	NA	NA	NA	NA	NA	11.25 (TOB)	4.96 (TOB)	6.29	1.2/2.2
MW-3	10/17/2000	156	183 a	NA	5.22	0.819	<0.500	1.53	2,250	NA	NA	NA	NA	NA	11.25 (TOB)	5.70 (TOB)	5.55	2.0/2.1
MW-3	05/01/2001	286	95.9	NA	<2.50	<2.50	<2.50	<2.50	1,470	NA	NA	NA	NA	NA	11.25 (TOB)	4.88 (TOB)	6.37	1.9/2.7
MW-3	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.25 (TOB)	6.00	3.0/1.9
MW-3	11/05/2001	<500	<50	NA	<5.0	<5.0	<5.0	<5.0	NA	2,100	NA	NA	NA	NA	11.25 (TOB)	6.25 (TOB)	5.00	0.5/1.9
MW-3	05/01/2002	<100	80	NA	<1.0	<1.0	<1.0	<1.0	NA	430	NA	NA	NA	NA	11.25 (TOB)	4.77 (TOB)	6.48	4.1/0.7
MW-3	07/16/2002	410	340	NA	12	2.0	<2.0	3.5	NA	530	NA	NA	NA	NA	11.25 (TOB)	5.44 (TOB)	5.81	0.3/1.7

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	10/17/2002	220	82	NA	2.5	<2.0	<2.0	2.3	NA	25	NA	NA	NA	NA	10.58	6.03	4.55	0.8/2.4
MW-3	01/21/2003	<50	150	NA	<0.50	<0.50	<0.50	<0.50	NA	28	NA	NA	NA	NA	10.58	4.30	6.28	1.2/1.0
MW-3	05/01/2003	60	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	10.58	4.30	6.28	NA
MW-3	07/17/2003	120	<50	NA	1.2	<0.50	<0.50	<1.0	NA	11	NA	NA	NA	NA	10.58	5.36	5.22	NA
MW-3	10/02/2003	160	56 a	NA	3.1	1.1	<0.50	2.1	NA	8.2	NA	NA	NA	NA	10.58	6.00	4.58	NA
MW-3	01/05/2004	54	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	10.58	4.44	6.14	NA
MW-3	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	4.2	NA	NA	NA	NA	10.58	4.29	6.29	NA
MW-3	08/02/2004	300	<50	<500	<2.5	<2.5	<2.5	<5.0	NA	17	<10	<10	<10	1,900	10.58	5.80	4.78	NA
MW-3	11/02/2004	72	<50	<500	0.51	<0.50	<0.50	<1.0	NA	3.0	NA	NA	NA	NA	10.58	5.00	5.58	NA
MW-3	**01/10/2005**	**<50**	**<50**	**<500**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**NA**	**NA**	**NA**	**NA**	**10.58**	**3.01**	**7.57**	**NA**
MW-4	05/23/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.60	1.78	NA
MW-4	08/03/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.37	1.01	NA
MW-4	12/15/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.91	0.47	NA
MW-4	03/08/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.06	1.32	NA
MW-4	04/18/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	5.84	1.54	NA
MW-4	07/23/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.92	0.46	NA
MW-4	09/27/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	8.03	0.65	NA
MW-4	01/03/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.38	7.54	-0.16	NA
MW-4	04/10/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.06	2.32	NA
MW-4	07/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.86	0.52	NA
MW-4	10/08/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.44	-0.06	NA
MW-4	02/06/1992	120	2,500 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.29	0.09	NA
MW-4	05/04/1992	ND	53	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	5.33	2.05	NA
MW-4	07/28/1992	ND	60	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	6.95	0.43	NA
MW-4	10/27/1992	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	7.65	-0.27	NA
MW-4	01/14/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	4.84	2.54	NA
MW-4	04/23/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.38	4.84	2.54	NA
MW-4	07/20/1993	ND	ND	NA	2.2	ND	1.1	7.7	NA	NA	NA	NA	NA	NA	10.28	6.47	3.81	NA
MW-4	10/18/1993	ND	ND	NA	ND	1.2	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.35	2.93	NA
MW-4	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.64	2.64	NA
MW-4	04/12/1994	ND	76	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	6.39	3.89	NA

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MW-4	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.00	3.28	NA
MW-4	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	7.53	2.75	NA
MW-4	01/09/1995	ND	70 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.28	4.90	5.38	NA
MW-4	04/11/1995	ND	140	NA	1.5	ND	0.6	3.4	NA	NA	NA	NA	NA	NA	10.28	5.04	5.24	NA
MW-4	07/18/1995	ND	160	NA	13	3.4	ND	ND	NA	NA	NA	NA	NA	NA	10.28	6.18	4.10	NA
MW-4	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	6.63	3.65	NA
MW-4	01/09/1996	<50	ND	NA	<0.5	ND	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.28	3.82	6.46	NA
MW-4	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.28	3.97	6.31	NA
MW-4	10/03/1996	<50	81	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.28	3.74	6.54	NA
MW-4	04/03/1997	<50	69	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.28	3.74	6.54	1.8
MW-4	10/08/1997	<50	75	NA	<0.50	<0.50	<0.50	<0.50	13	NA	NA	NA	NA	NA	10.28	4.89	5.39	2.0
MW-4 (D)	10/08/1997	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.28	4.89	5.39	2.0
MW-4	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.39	5.89	NA
MW-4	12/30/1998	<50.0	94.1	NA	<0.500	<0.500	<0.500	0.580	7.33	NA	NA	NA	NA	NA	10.28	5.58	4.70	1.7/1.6
MW-4	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.17	6.11	NA
MW-4	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.28	4.54	5.74	1.4/1.5
MW-4	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	3.85	6.43	NA
MW-4	10/17/2000	<50.0	274a	NA	<0.500	<0.500	<0.500	<0.500	9.40	NA	NA	NA	NA	NA	10.28	3.50	6.78	3.8/4.0
MW-4	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.10	6.18	NA
MW-4	11/05/2001	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	8.4	NA	NA	NA	NA	10.28	5.21	5.07	1.3/1.5
MW-4	05/01/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.28	4.28	6.00	2.6/1.1
MW-4	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	3.87	6.41	NA
MW-4	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	9.83	4.66	5.17	1.4/2.4
MW-4	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	3.87	5.96	NA
MW-4	05/01/2003	<50	57 a	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	9.83	4.49	5.34	NA
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	5.46	4.37	NA
MW-4	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	5.9	NA	NA	NA	NA	9.83	5.51	4.32	NA
MW-4	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	3.83	6.00	NA
MW-4	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	3.0	NA	NA	NA	NA	9.83	4.43	5.40	NA
MW-4	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	5.05	4.78	NA
MW-4	11/02/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	3.8	NA	NA	NA	NA	9.83	4.31	5.52	NA
MW-4	**01/10/2005**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**9.83**	**3.51**	**6.32**	**NA**

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-5	05/23/1989	26,000	7,000	NA	1,500	280	ND	8,100	NA	NA	NA	NA	NA	NA	8.18	5.47	2.71	NA
MW-5	08/03/1989	12,000	8,700	NA	860	94	ND	2,600	NA	NA	NA	NA	NA	NA	8.18	5.94	2.24	NA
MW-5	12/15/1989	1,000	710	NA	22	35	18	44	NA	NA	NA	NA	NA	NA	8.18	6.75	1.43	NA
MW-5	02/07/1990	ND	620	NA	0.8	ND	ND	ND	NA	NA	NA	NA	NA	NA	8.18	6.03	2.15	NA
MW-5	04/18/1990	19,000	5,000	NA	4,500	850	97	8,000	NA	NA	NA	NA	NA	NA	8.18	5.80	2.38	NA
MW-5	07/23/1990	23,000	2,700	NA	3,600	400	160	6,500	NA	NA	NA	NA	NA	NA	8.18	6.00	2.18	NA
MW-5	09/23/1990	5,400	550	NA	1,400	26	13	1,300	NA	NA	NA	NA	NA	NA	8.18	7.18	1.00	NA
MW-5	01/03/1991	860	560	NA	280	2.8	0.8	45	NA	NA	NA	NA	NA	NA	8.18	7.17	1.01	NA
MW-5	04/10/1991	12,000	1,800	NA	710	130	500	2,400	NA	NA	NA	NA	NA	NA	8.18	5.25	2.93	NA
MW-5	07/12/1991	24,000	1,700	NA	2,200	280	430	5,700	NA	NA	NA	NA	NA	NA	8.18	5.70	2.48	NA
MW-5	10/08/1991	2,800	1,400	NA	860	13	ND	580	NA	NA	NA	NA	NA	NA	8.18	6.50	1.68	NA
MW-5	02/06/1992	1,000	1,200	NA	300	ND	14	62	NA	NA	NA	NA	NA	NA	8.18	6.35	1.83	NA
MW-5	05/04/1992	10,000	4,100 a	NA	1,500	350	710	2,300	NA	NA	NA	NA	NA	NA	8.18	4.87	3.31	NA
MW-5	07/28/1992	12,000	3,800 a	NA	2,200	63	1,400	3,500	NA	NA	NA	NA	NA	NA	8.18	5.73	2.45	NA
MW-5	10/27/1992	7,500	480 a	NA	1,100	59	230	900	NA	NA	NA	NA	NA	NA	8.18	6.98	1.20	NA
MW-5	01/14/1993	7,700	1,100 a	NA	420	49	570	840	NA	NA	NA	NA	NA	NA	8.18	4.70	3.48	NA
MW-5	04/23/1993	110,000	1,600 a	NA	2,900	2,500	3,400	12,000	NA	NA	NA	NA	NA	NA	8.18	4.19	3.99	NA
MW-5	07/20/1993	18a	1,200 a	NA	1,400	84	1,500	3,200	NA	NA	NA	NA	NA	NA	10.87	5.10	5.77	NA
MW-5	10/18/1993	14,000	5,800 a	NA	2,000	100	2,300	5,100	NA	NA	NA	NA	NA	NA	10.87	5.79	5.08	NA
MW-5	01/06/1994	81,000	1,100 a	NA	11,000	9,300	3,600	12,000	NA	NA	NA	NA	NA	NA	10.87	5.56	5.31	NA
MW-5	04/12/1994	17,000	4,100	NA	2,900	380	430	1,300	NA	NA	NA	NA	NA	NA	10.87	4.90	5.97	NA
MW-5	07/25/1994	5,900	5,400 a	NA	1,500	42	34	170	NA	NA	NA	NA	NA	NA	10.87	5.38	5.49	NA
MW-5	10/25/1994	2,300	1,900 a	NA	35	3	ND	8	NA	NA	NA	NA	NA	NA	10.87	6.16	4.71	NA
MW-5	01/09/1995	8,300	3,700 a	NA	1,500	95	330	1,900	NA	NA	NA	NA	NA	NA	10.87	4.60	6.27	NA
MW-5	04/11/1995	7,300	9,800	NA	1,200	230	600	550	NA	NA	NA	NA	NA	NA	10.87	3.74	7.13	NA
MW-5	07/18/1995	17,000	5,100	NA	2,300	730	770	2,500	NA	NA	NA	NA	NA	NA	10.87	4.97	5.90	NA
MW-5	10/18/1995	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.67	5.20	NA
MW-6	05/23/1989	22,000	7,000	NA	16	6.5	7	3,400	NA	NA	NA	NA	NA	NA	8.21	5.47	2.74	NA
MW-6	08/03/1989	28,000	8,800	NA	1,200	130	2,100	2,800	NA	NA	NA	NA	NA	NA	8.21	5.91	2.30	NA
MW-6	12/15/1989	16,000	5,500	NA	370	92	200	180	NA	NA	NA	NA	NA	NA	8.21	5.98	2.23	NA

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MW-6	02/07/1990	22,000	2,600	NA	520	85	630	770	NA	NA	NA	NA	NA	NA	8.21	5.47	2.74	NA
MW-6	04/18/1990	21,000	5,700	NA	900	77	2,700	2,700	NA	NA	NA	NA	NA	NA	8.21	5.80	2.41	NA
MW-6	07/23/1990	24,000	3,000	NA	1,000	94	3,400	2,700	NA	NA	NA	NA	NA	NA	8.21	5.85	2.36	NA
MW-6	09/27/1990	22,000	ND	NA	700	93	2,500	2,400	NA	NA	NA	NA	NA	NA	8.21	6.42	1.79	NA
MW-6	01/03/1991	25,000	960	NA	1,000	88	2,600	3,700	NA	NA	NA	NA	NA	NA	8.21	6.73	1.48	NA
MW-6	04/10/1991	18,000	920	NA	560	190	480	830	NA	NA	NA	NA	NA	NA	8.21	5.24	2.97	NA
MW-6	07/12/1991	9,500	1,900	NA	670	51	1,100	920	NA	NA	NA	NA	NA	NA	8.21	5.78	2.43	NA
MW-6	10/08/1991	11,000	5,100	NA	1,000	43	ND	ND	NA	NA	NA	NA	NA	NA	8.21	6.36	1.85	NA
MW-6	02/06/1992	7,200	1,500 a	NA	560	8	720	160	NA	NA	NA	NA	NA	NA	8.21	6.15	2.06	NA
MW-6	05/04/1992	7,900	2,900 a	NA	610	ND	1,500	240	NA	NA	NA	NA	NA	NA	8.21	5.07	3.14	NA
MW-6	07/28/1992	17,000	3,200 a	NA	1,200	ND	3,000	610	NA	NA	NA	NA	NA	NA	8.21	5.85	2.36	NA
MW-6	10/27/1992	15,000	1,300 a	NA	1,300	130	1,700	490	NA	NA	NA	NA	NA	NA	8.21	6.69	1.52	NA
MW-6	01/14/1993	4,900	1,600 a	NA	80	31	330	37	NA	NA	NA	NA	NA	NA	8.21	4.52	3.69	NA
MW-6	04/23/1993	4,800	1,800 a	NA	120	ND	780	73	NA	NA	NA	NA	NA	NA	8.21	4.32	3.89	NA
MW-6	07/20/1993	19a	910 a	NA	570	18	1,100	130	NA	NA	NA	NA	NA	NA	11.04	5.39	5.65	NA
MW-6	10/18/1993	24,000	2,500 a	NA	770	440	1,600	830	NA	NA	NA	NA	NA	NA	11.04	6.67	4.37	NA
MW-6	01/06/1994	20 a	2,300 a	NA	450	30	530	52	NA	NA	NA	NA	NA	NA	11.04	5.66	5.38	NA
MW-6	04/12/1994	3,600	1,600	NA	150	ND	340	21	NA	NA	NA	NA	NA	NA	11.04	4.91	6.13	NA
MW-6	07/25/1994	1,600	2,200 a	NA	160	ND	ND	10	NA	NA	NA	NA	NA	NA	11.04	5.55	5.49	NA
MW-6 (D)	07/25/1994	1,000	2,400 a	NA	160	ND	ND	18	NA	NA	NA	NA	NA	NA	11.04	5.55	5.49	NA
MW-6	10/25/1994	9,800	3,000 a	NA	390	22	300	57	NA	NA	NA	NA	NA	NA	11.04	6.24	4.80	NA
MW-6	01/09/1995	2,200	800 a	NA	74	12	400	39	NA	NA	NA	NA	NA	NA	11.04	4.58	6.46	NA
MW-6	04/11/1995	5,000	7,700	NA	330	15	760	85	NA	NA	NA	NA	NA	NA	11.04	4.04	7.00	NA
MW-6	07/18/1995	4,200	1,700	NA	320	11	490	22	NA	NA	NA	NA	NA	NA	11.04	5.01	6.03	NA
MW-6	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	5.86	5.18	NA
MW-6	01/09/1996	5,600	790	NA	59	<5	180	12	14,000	NA	NA	NA	NA	NA	11.04	4.75	6.29	NA
MW-6	04/02/1996	1,500	NA	NA	12	<5	170	9	1,900	NA	NA	NA	NA	NA	11.04	3.82	7.22	NA
MW-6	10/03/1996	2,600	1,800	NA	110	<25	<25	<25	11,000	NA	NA	NA	NA	NA	11.04	5.27	5.77	2.2
MW-6	04/03/1997	<2,500	650	NA	30	<25	32	<25	10,000	NA	NA	NA	NA	NA	11.04	4.42	6.62	2.0
MW-6	10/08/1997	1,900	1,100	NA	31	<5.0	6.1	<5.0	2,600	NA	NA	NA	NA	NA	11.04	4.70	6.34	1.0
MW-6	06/10/1998	<1,000	1,500	NA	17	12	14	88	14,000	NA	NA	NA	NA	NA	11.04	4.36	6.68	0.4/0.4
MW-6	12/30/1998	260	528	NA	<2.50	<2.50	<2.50	<2.50	909	NA	NA	NA	NA	NA	11.04	4.98	6.06	2.1/1.6

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MW-6 *	06/25/1999	<2,500	NA	NA	<25.0	<25.0	<25.0	<25.0	8,850	7,630	NA	NA	NA	NA	11.04	4.81	6.23	1.4/3.6
MW-6	12/28/1999	526	416	NA	7.60	<1.00	<1.00	<1.00	1,510	NA	NA	NA	NA	NA	11.04	5.17	5.87	1.8/2.0
MW-6	05/31/2000	2,870	998	NA	45.7	4.70	8.61	<2.50	3,760	NA	NA	NA	NA	NA	11.04	4.58	6.46	0.92/2.30
MW-6	10/17/2000	2,370	944a	NA	49.8	5.36	<5.00	<5.00	746	NA	NA	NA	NA	NA	11.04	4.80	6.24	2.5/2.1
MW-6	05/01/2001	3,000	706	NA	2.72	<2.50	4.46	<2.50	473	NA	NA	NA	NA	NA	11.04	4.75	6.29	2.2/1.6
MW-6	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	4.86	6.18	2.0/1.3
MW-6	11/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.04	5.73	5.31	0.6
MW-6	11/07/2001	1,700	180	NA	1.3	1.2	1.3	1.1	NA	430	NA	NA	NA	NA	11.04	5.75	5.29	2.4/1.8
MW-6	05/01/2002	1,400	<300	NA	2.0	0.61	4.3	0.68	NA	220	NA	NA	NA	NA	11.04	4.47	6.57	2.5/2.0
MW-6	07/16/2002	3,500	<600	NA	31	1.5	5.7	1.2	NA	220	NA	NA	NA	NA	11.04	5.05	5.99	0.6/0.6
MW-6	10/17/2002	3,000	<700	NA	27	1.7	2.9	1.8	NA	340	NA	NA	NA	NA	10.59	5.80	4.79	1.2/1.1
MW-6	01/21/2003	900	<200	NA	1.5	<0.50	1.4	<0.50	NA	73	NA	NA	NA	NA	10.59	4.39	6.20	0.8/0.6
MW-6	05/01/2003	700 a	160 a	NA	0.58	<0.50	0.82	<1.0	NA	71	NA	NA	NA	NA	10.59	4.19	6.40	NA
MW-6	07/17/2003	<1,200	220 a,f	NA	<12	<12	<12	<25	NA	840	NA	NA	NA	NA	10.59	5.22	5.37	NA
MW-6	10/02/2003	<1,000	300 a	NA	<10	<10	<10	<20	NA	1,500	NA	NA	NA	NA	10.59	5.86	4.73	NA
MW-6	01/05/2004	520	140 a	NA	<0.50	0.72	<0.50	<1.0	NA	30	NA	NA	NA	NA	10.59	3.79	6.80	NA
MW-6	04/01/2004	650	220 a	NA	<0.50	<0.50	0.54	<1.0	NA	130	NA	NA	NA	NA	10.59	4.28	6.31	NA
MW-6	08/02/2004	1,600	500 a	<500	<2.5	<2.5	<2.5	<5.0	NA	480	<10	<10	<10	900	10.59	5.78	4.81	NA
MW-6	11/02/2004	580	150 g	<500	<0.50	<0.50	<0.50	<1.0	NA	55	NA	NA	NA	NA	10.59	4.73	5.86	NA
MW-6	**01/10/2005**	**620**	**230 g**	**<500**	**<0.50**	**<0.50**	**0.50**	**<1.0**	**NA**	**17**	**NA**	**NA**	**NA**	**NA**	**10.59**	**3.70**	**6.89**	**NA**
MW-7	05/23/1989	47,000	11,000	NA	3,500	5,000	1,500	7,800	NA	NA	NA	NA	NA	NA	7.44	5.48	1.96	NA
MW-7	08/03/1989	68,000	22,000	NA	6,200	6,600	3,600	8,800	NA	NA	NA	NA	NA	NA	7.44	4.22	3.22	NA
MW-7	12/15/1989	100,000	12,000	NA	4,500	5,300	1,300	5,300	NA	NA	NA	NA	NA	NA	7.44	4.58	2.86	NA
MW-7	02/07/1990	96,000	8,100	NA	15,000	15,000	2,500	14,000	NA	NA	NA	NA	NA	NA	7.44	5.34	2.10	NA
MW-7	04/18/1990	94,000	10,000	NA	25,000	13,000	3,300	13,000	NA	NA	NA	NA	NA	NA	7.44	4.92	2.52	NA
MW-7	07/23/1990	84,000	12,000	NA	3,800	26,000	13,000	3,000	NA	NA	NA	NA	NA	NA	7.44	4.99	2.45	NA
MW-7	09/27/1990	43,000	ND	NA	25,000	6,100	2,400	9,000	NA	NA	NA	NA	NA	NA	7.44	6.16	1.28	NA
MW-7	01/03/1991	78,000	3,100	NA	26,000	16,000	3,000	14,000	NA	NA	NA	NA	NA	NA	7.44	4.96	2.48	NA
MW-7	04/10/1991	140,000	1,800	NA	26,000	16,000	2,200	14,000	NA	NA	NA	NA	NA	NA	7.44	4.13	3.31	NA
MW-7	07/12/1991	79,000	1,100	NA	7,700	7,200	2,300	10,000	NA	NA	NA	NA	NA	NA	7.44	4.98	2.46	NA
MW-7	10/08/1991	55,000	390 a	NA	29,000	7,500	1,800	9,300	NA	NA	NA	NA	NA	NA	7.44	5.48	1.96	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-7	02/06/1992	63,000	9,600 a	NA	16,000	8,700	1,600	7,400	NA	NA	NA	NA	NA	NA	7.44	5.05	2.39	NA
MW-7	05/04/1992	67,000	9,800 a	NA	22,000	13,000	1,800	9,400	NA	NA	NA	NA	NA	NA	7.44	4.43	3.01	NA
MW-7	07/28/1992	85,000	13,000 a	NA	26,000	17,000	2,900	15,000	NA	NA	NA	NA	NA	NA	7.44	4.88	2.56	NA
MW-7	10/27/1992	63,000	1,900 a	NA	21,000	11,000	3,000	11,000	NA	NA	NA	NA	NA	NA	7.44	5.39	2.05	NA
MW-7	01/14/1993	120,000	2,300 a	NA	28,000	21,000	1,600	15,000	NA	NA	NA	NA	NA	NA	7.44	4.26	3.18	NA
MW-7	04/23/1993	60,000	12,000 a	NA	17,000	3,700	2,200	11,000	NA	NA	NA	NA	NA	NA	7.44	4.04	3.40	NA
MW-7 (D)	04/23/1993	50,000	14,000 a	NA	17,000	4,200	2,200	11,000	NA	NA	NA	NA	NA	NA	7.44	4.04	3.40	NA
MW-7	07/20/1993	47,000	13,000	NA	23,000	9,900	2,200	12,000	NA	NA	NA	NA	NA	NA	10.28	4.36	5.92	NA
MW-7	10/18/1993	44,000	10,000 a	NA	22,000	3,800	2,600	10,000	NA	NA	NA	NA	NA	NA	10.28	5.14	5.14	NA
MW-7	01/06/1994	65,000	5,200 a	NA	16,000	4,900	1,900	8,500	NA	NA	NA	NA	NA	NA	10.28	4.83	5.45	NA
MW-7	04/12/1994	68,000	3,400	NA	12,000	2,000	580	6,400	NA	NA	NA	NA	NA	NA	10.28	4.24	6.04	NA
MW-7	07/25/1994	63,000	4,200 a	NA	16,000	5,800	300	8,300	NA	NA	NA	NA	NA	NA	10.28	4.58	5.70	NA
MW-7	10/25/1994	46,000	3,800 a	NA	16,000	3,700	1,200	7,300	NA	NA	NA	NA	NA	NA	10.28	5.07	5.21	NA
MW-7	01/09/1995	62,000	3,300 a	NA	24,000	8,500	1,100	9,400	NA	NA	NA	NA	NA	NA	10.28	3.38	6.90	NA
MW-7 (D)	01/11/1995	57,000	3,200 a	NA	9,500	7,900	620	8,000	NA	NA	NA	NA	NA	NA	10.28	3.38	6.90	NA
MW-7	04/11/1995	53,000	7,000	NA	13,000	4,200	1,500	7,700	NA	NA	NA	NA	NA	NA	10.28	3.52	6.76	NA
MW-7 (D)	04/12/1995	55,000	7,600	NA	11,000	3,700	1,300	6,400	NA	NA	NA	NA	NA	NA	10.28	3.52	6.76	NA
MW-7	07/18/1995	95,000	2,700	NA	24,000	8,000	2,100	12,000	NA	NA	NA	NA	NA	NA	10.28	4.70	5.58	NA
MW-7	10/18/1995	Well abandoned		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.28	5.25	5.03	NA
MW-8	05/23/1989	ND	100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	08/03/1989	ND	75	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	12/15/1989	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.71	1.08	NA
MW-8	03/08/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	4.95	2.84	NA
MW-8	04/18/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.79	6.40	1.89	NA
MW-8	07/23/1990	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.62	1.17	NA
MW-8	09/27/1990	ND	1,100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.98	0.81	NA
MW-8	01/03/1991	ND	ND	NA	1.3	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.03	0.76	NA
MW-8	04/10/1991	50	ND	NA	0.7	1.1	0.8	1	NA	NA	NA	NA	NA	NA	7.79	4.40	3.39	NA
MW-8	07/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.80	0.99	NA
MW-8	10/08/1991	ND	ND	NA	1.4	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.56	0.23	NA
MW-8	02/06/1992	ND	60 a	NA	ND	0.7	ND	ND	NA	NA	NA	NA	NA	NA	7.79	6.94	0.85	NA

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MW-8	05/04/1992	ND	210 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	5.86	1.93	NA
MW-8	07/28/1992	51	ND	NA	ND	ND	1	0.6	NA	NA	NA	NA	NA	NA	7.79	6.94	0.85	NA
MW-8	10/27/1992	ND	ND	NA	ND	6.6	ND	ND	NA	NA	NA	NA	NA	NA	7.79	7.83	-0.04	NA
MW-8	01/14/1993	ND	64a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	3.60	4.19	NA
MW-8 (D)	01/14/1993	ND	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	3.60	4.19	NA
MW-8	04/23/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.79	4.12	3.67	NA
MW-8	07/20/1993	ND	ND	NA	0.7	0.7	0.8	4.1	NA	NA	NA	NA	NA	NA	10.61	6.38	4.23	NA
MW-8	10/18/1993	ND	ND	NA	ND	800	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.47	3.14	NA
MW-8	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.20	3.41	NA
MW-8	04/12/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	6.16	4.45	NA
MW-8	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	6.94	3.67	NA
MW-8	10/25/1994	ND	ND	NA	ND	1	ND	ND	NA	NA	NA	NA	NA	NA	10.61	7.43	3.18	NA
MW-8	01/09/1995	ND	70 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	3.98	6.63	NA
MW-8	04/11/1995	ND	78	NA	0.63	1.3	ND	0.75	NA	NA	NA	NA	NA	NA	10.61	4.12	6.49	NA
MW-8	07/18/1995	ND	130	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	5.21	5.40	NA
MW-8	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.58	5.03	NA
MW-8	01/09/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.61	5.09	5.52	NA
MW-8	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.61	3.42	7.19	NA
MW-8	10/03/1996	<50	<69	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.61	4.30	6.31	NA
MW-8	04/03/1997	<50	62	NA	<0.50	<0.50	<0.50	0.91	<2.5	NA	NA	NA	NA	NA	10.61	4.58	6.03	2.6
MW-8	10/08/1997	<50	57	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.61	3.00	7.61	3.6
MW-8	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	2.88	7.73	NA
MW-8	12/30/1998	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	10.61	5.38	5.23	0.8/0.9
MW-8	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.53	6.08	NA
MW-8	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.61	4.93	5.68	1.0/0.9
MW-8	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.02	6.59	NA
MW-8	10/17/2000	<50.0	143a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	10.61	3.10	7.51	4.0/4.1
MW-8	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	4.12	6.49	NA
MW-8	11/05/2001	<50	<50	NA	<0.50	0.99	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.61	5.00	5.61	0.6/1.3
MW-8	05/01/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.61	3.25	7.36	0.6/3.6
MW-8	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	3.64	6.97	NA
MW-8	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.18	4.53	5.65	3.3/2.2

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MW-8	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	3.98	6.20	NA
MW-8	05/01/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	10.18	4.00	6.18	NA
MW-8	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	4.37	5.81	NA
MW-8	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	4.56	5.62	NA
MW-8	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	2.90	7.28	NA
MW-8	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	3.83	6.35	NA
MW-8	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.18	5.35	4.83	NA
MW-8	11/02/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	10.18	4.28	5.90	NA
MW-8	**01/10/2005**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**10.18**	**2.44**	**7.74**	**NA**
MW-9	08/03/1989	47,000	12,000	NA	5,600	6,600	1,500	8,500	NA	NA	NA	NA	NA	NA	7.63	5.78	1.85	NA
MW-9	12/15/1989	88,000	9,200	NA	4,300	5,400	140	5,600	NA	NA	NA	NA	NA	NA	7.63	5.24	2.39	NA
MW-9	02/07/1990	50,000	7,400	NA	1,800	1,400	3,200	1,800	NA	NA	NA	NA	NA	NA	7.63	5.23	2.40	NA
MW-9	04/18/1990	50,000	7,500	NA	14,000	11,000	730	10,000	NA	NA	NA	NA	NA	NA	7.63	5.34	2.29	NA
MW-9	07/23/1990	62,000	3,200	NA	19,000	16,000	950	15,000	NA	NA	NA	NA	NA	NA	7.63	5.65	1.98	NA
MW-9	09/27/1990	30,000	2,700	NA	16,000	6,500	980	11,000	NA	NA	NA	NA	NA	NA	7.63	5.96	1.67	NA
MW-9	01/03/1991	34,000	2,500	NA	9,200	3,200	770	7,000	NA	NA	NA	NA	NA	NA	7.63	6.23	1.40	NA
MW-9	04/10/1991	66,000	2,200	NA	17,000	13,000	1,400	14,000	NA	NA	NA	NA	NA	NA	7.63	4.65	2.98	NA
MW-9	07/12/1991	40,000	2,000	NA	7,700	3,200	1,100	9,400	NA	NA	NA	NA	NA	NA	7.63	5.65	1.98	NA
MW-9	10/08/1991	20,000	4,700 a	NA	11,000	640	240	6,000	NA	NA	NA	NA	NA	NA	7.63	6.08	1.55	NA
MW-9	02/06/1992	36,000	6,600 a	NA	11,000	490	1,100	6,700	NA	NA	NA	NA	NA	NA	7.63	5.92	1.71	NA
MW-9	05/04/1992	31,000	5,800 a	NA	11,000	1,700	1,200	8,700	NA	NA	NA	NA	NA	NA	7.63	4.80	2.83	NA
MW-9	07/28/1992	50,000	14,000	NA	17,000	1,200	1,500	12,000	NA	NA	NA	NA	NA	NA	7.63	5.61	2.02	NA
MW-9	10/27/1992	43,000	880 a	NA	15,000	680	1,700	8,100	NA	NA	NA	NA	NA	NA	7.63	6.24	1.39	NA
MW-9	01/14/1993	52,000	730 a	NA	9,600	1,100	1,100	7,000	NA	NA	NA	NA	NA	NA	7.63	4.95	2.68	NA
MW-9	04/23/1993	45,000	8,000 a	NA	11,000	1,400	1,500	10,000	NA	NA	NA	NA	NA	NA	7.63	4.54	3.09	NA
MW-9	07/20/1993	25,000	5,100	NA	10,000	320	1,100	7,100	NA	NA	NA	NA	NA	NA	10.48	5.25	5.23	NA
MW-9	10/18/1993	32,000	4,900 a	NA	14,000	530	2,000	10,000	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9	01/06/1994	41,000	7,700 a	NA	15,000	810	1,400	9,000	NA	NA	NA	NA	NA	NA	10.48	5.62	4.86	NA
MW-9 (D)	01/06/1994	43,000	8,300 a	NA	15,000	920	1,300	8,000	NA	NA	NA	NA	NA	NA	10.48	5.62	4.86	NA
MW-9	04/12/1994	39,000	2,000	NA	8,300	ND	ND	4,000	NA	NA	NA	NA	NA	NA	10.48	4.31	6.17	NA
MW-9	07/25/1994	22,000	3,600 a	NA	7,500	150	ND	4,100	NA	NA	NA	NA	NA	NA	10.48	5.43	5.05	NA

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MW-9	10/25/1994	31,000	3,200 a	NA	13,000	240	1,000	8,500	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9 (D)	10/26/1994	31,000	3,500 a	NA	13,000	220	1,100	8,300	NA	NA	NA	NA	NA	NA	10.48	6.00	4.48	NA
MW-9	01/09/1995	4,800	2,300 a	NA	1,200	510	42	1,400	NA	NA	NA	NA	NA	NA	10.48	4.26	6.22	NA
MW-9	04/11/1995	20,000	3,400	NA	5,100	460	400	3,400	NA	NA	NA	NA	NA	NA	10.48	4.08	6.40	NA
MW-9	07/18/1995	43,000	2,900	NA	12,000	1,800	960	9,100	NA	NA	NA	NA	NA	NA	10.48	5.07	5.41	NA
MW-9	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	5.82	4.66	NA
MW-9	01/09/1996	64,000	2,800	NA	12,000	5,400	1,800	10,000	2100	NA	NA	NA	NA	NA	10.48	4.36	6.12	NA
MW-9	04/02/1996	39,000	NA	NA	10,000	100	520	4,100	<500	NA	NA	NA	NA	NA	10.48	3.86	6.62	NA
MW-9	10/03/1996	46,000	3,100	NA	12,000	180	1,400	6,700	2,300	NA	NA	NA	NA	NA	10.48	4.90	5.58	1.4
MW-9	04/03/1997	36,000	2,300	NA	9,700	140	580	3,900	<500	NA	NA	NA	NA	NA	10.48	3.98	6.50	1.8
MW-9	10/08/1997	34,000	3,500	NA	6,900	<100	830	4,500	<125	NA	NA	NA	NA	NA	10.48	4.17	6.31	0.8
MW-9	06/10/1998	20,000	2,500	NA	9,900	250	3,100	170	460	NA	NA	NA	NA	NA	10.48	3.84	6.64	0.3/0.4
MW-9	12/30/1998	30,100	1,900	NA	8,500	166	603	3,340	<100	NA	NA	NA	NA	NA	10.48	4.72	5.76	1.1/1.2
MW-9 *	06/25/1999	26,300	NA	NA	8,090	73.5	409	2,730	<100	NA	NA	NA	NA	NA	10.48	4.47	6.01	1.2/2.4
MW-9	12/28/1999	4,130	839	NA	1,260	57.9	103	213	1,470	NA	NA	NA	NA	NA	10.48	4.82	5.66	1.0/1.1
MW-9	05/31/2000	8,210	1,300	NA	9,290	62.3	141	908	565	NA	NA	NA	NA	NA	10.48	3.87	6.61	2.8/c
MW-9	10/17/2000	19,000	1,510 a	NA	5,420	54.5	479	2,680	<250	NA	NA	NA	NA	NA	10.48	3.87	6.61	3.0/3.5
MW-9	05/01/2001	24,300	976	NA	11,200	52.9	159	1,610	<250	NA	NA	NA	NA	NA	10.48	4.44	6.04	1.6/1.0
MW-9	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	3.99	6.49	1.9/1.5
MW-9	11/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.48	5.41	5.07	0.7
MW-9	11/07/2001	25,000	<1,000	NA	7,300	85	630	4,100	NA	<250	NA	NA	NA	NA	10.48	5.60	4.88	1.4/1.1
MW-9	05/01/2002	27,000	<700	NA	11,000	79	260	1,300	NA	<500	NA	NA	NA	NA	10.48	3.38	7.10	2.9/1.1
MW-9	07/16/2002	29,000	<700	NA	12,000	<50	74	810	NA	<500	NA	NA	NA	NA	10.48	4.04	6.44	0.7/0.4
MW-9	10/17/2002	15,000	<800	NA	10,000	31	36	490	NA	53	NA	NA	NA	NA	10.07	4.92	5.15	1.0/1.2
MW-9	01/21/2003	8,500	<400	NA	3,100	39	190	590	NA	<200	NA	NA	NA	NA	10.07	4.52	5.55	0.4/0.8
MW-9	05/01/2003	16,000 a	1,600 a	NA	4,900	<100	<100	1,500	NA	<1,000	NA	NA	NA	NA	10.07	4.05	6.02	NA
MW-9	07/17/2003	14,000	1,300 a,f	NA	9,900	130	<120	2,300	NA	<120	NA	NA	NA	NA	10.07	4.82	5.25	NA
MW-9	10/02/2003	13,000	3,100 a	NA	8,500	190	770	5,100	NA	<100	NA	NA	NA	NA	10.07	5.17	4.90	NA
MW-9	01/05/2004	37,000	1,500 a	NA	15,000	250	750	3,800	NA	<100	NA	NA	NA	NA	10.07	3.94	6.13	NA
MW-9	04/01/2004	14,000	1,800 a	NA	6,800	80	230	1,800	NA	<50	NA	NA	NA	NA	10.07	4.24	5.83	NA
MW-9	08/02/2004	12,000	710 g	<500	8,200	<50	66	650	NA	<50	<200	<200	<200	<500	10.07	5.10	4.97	NA
MW-9	11/02/2004	15,000	1,500 g	<500	9,300	73	240	1,400	NA	70	NA	NA	NA	NA	10.07	4.21	5.86	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-9	**01/10/2005**	**28,000**	**1,700 g**	**<500**	**7,400**	**1,100**	**1,400**	**5,400**	**NA**	**<50**	**NA**	**NA**	**NA**	**NA**	**10.07**	**3.45**	**6.62**	**NA**
MW-10	12/15/1989	ND	3,100	NA	1,500	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.45	6.33	0.82	NA
MW-10	03/08/1990	25,000	1,800	NA	17,000	330	2,100	1,400	NA	NA	NA	NA	NA	NA	7.45	5.41	2.00	NA
MW-10	04/18/1990	23,000	3,600	NA	15,000	1,200	190	3,300	NA	NA	NA	NA	NA	NA	7.45	5.60	1.85	NA
MW-10	07/23/1990	18,000	1,900	NA	12,000	380	ND	1,400	NA	NA	NA	NA	NA	NA	7.45	5.81	1.64	NA
MW-10	09/27/1990	9,500	430	NA	13,000	100	1,800	230	NA	NA	NA	NA	NA	NA	7.45	6.64	0.81	NA
MW-10	01/03/1991	4,300	630	NA	3,700	10	ND	110	NA	NA	NA	NA	NA	NA	7.45	6.96	0.49	NA
MW-10	04/10/1991	45,000	1,400	NA	16,000	4,600	3,000	6,900	NA	NA	NA	NA	NA	NA	7.45	4.70	2.75	NA
MW-10	07/12/1991	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.45	5.90	1.55	NA
MW-10	10/08/1991	3,800	1,500 a	NA	13,000	82	9	500	NA	NA	NA	NA	NA	NA	7.45	6.68	0.77	NA
MW-10	02/06/1992	22,000	1,600 a	NA	12,000	ND	600	170	NA	NA	NA	NA	NA	NA	7.45	7.04	0.41	NA
MW-10	05/04/1992	39,000	8,000 a	NA	14,000	5,000	1,800	5,000	NA	NA	NA	NA	NA	NA	7.45	4.69	2.76	NA
MW-10	07/28/1992	38,000	8,700 a	NA	17,000	2,800	1,500	4,000	NA	NA	NA	NA	NA	NA	7.45	6.00	1.45	NA
MW-10	10/27/1992b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.45	NA	NA	NA
MW-10	01/14/1993	26,000	950 a	NA	10,000	ND	ND	160	NA	NA	NA	NA	NA	NA	7.45	6.07	1.38	NA
MW-10	04/23/1993	80,000	1,900 a	NA	21,000	13,000	3,400	12,000	NA	NA	NA	NA	NA	NA	7.45	4.14	3.31	NA
MW-10	07/20/1993	31,000	4,800	NA	14,000	4,200	1,700	5,500	NA	NA	NA	NA	NA	NA	10.61	5.62	4.99	NA
MW-10	10/18/1993	13,000	1,200 a	NA	8,600	220	ND	450	NA	NA	NA	NA	NA	NA	10.61	6.43	4.18	NA
MW-10	01/06/1994	16,000	670 a	NA	9,700	<125	<125	210	NA	NA	NA	NA	NA	NA	10.61	6.74	3.87	NA
MW-10	04/12/1994	16,000	860	NA	5,600	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.61	5.98	4.63	NA
MW-10	07/25/1994	2,300	2,100 a	NA	1,400	26	25	51	NA	NA	NA	NA	NA	NA	10.61	6.31	4.30	NA
MW-10	10/25/1994	1,400	1,000 a	NA	290	5	2	38	NA	NA	NA	NA	NA	NA	10.61	6.64	3.97	NA
MW-10	01/09/1995	16,000	2,300 a	NA	7,500	1,400	230	1,500	NA	NA	NA	NA	NA	NA	10.61	5.70	4.91	NA
MW-10	04/11/1995	54,000	5,000	NA	13,000	4,500	1,500	4,500	NA	NA	NA	NA	NA	NA	10.61	5.82	4.79	NA
MW-10	07/18/1995	72,000	2,600	NA	20,000	7,200	2,800	9,000	NA	NA	NA	NA	NA	NA	10.61	6.79	3.82	NA
MW-10	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.31	5.30	NA
MW-10	01/09/1996	32,000	2,100	NA	8,000	1,600	880	3,200	12,000	NA	NA	NA	NA	NA	10.61	5.92	4.69	NA
MW-10	04/02/1996	68,000	NA	NA	9,100	2,300	1,100	3,700	3,300	NA	NA	NA	NA	NA	10.61	5.43	5.18	NA
MW-10	10/03/1996	33,000	2,900	NA	11,000	1,300	830	2,400	7,300	NA	NA	NA	NA	NA	10.61	6.07	4.54	1.7
MW-10 (D)	10/03/1996	40,000	3,300	NA	12,000	1,700	1,100	3,100	6,500	NA	NA	NA	NA	NA	10.61	6.07	4.54	1.7
MW-10	04/03/1997	36,000	3,400	NA	12,000	2,300	1,400	4,500	2,300	NA	NA	NA	NA	NA	10.61	3.45	7.16	1.8

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MW-10 (D)	04/03/1997	52,000	3,000	NA	12,000	2,300	1,400	4,500	2,100	NA	NA	NA	NA	NA	10.61	3.45	7.16	1.8
MW-10	10/08/1997	20,000	3,100	NA	7,500	420	470	1,300	1,500	NA	NA	NA	NA	NA	10.61	3.72	6.89	1.2
MW-10	06/10/1998	48,000	2,500	NA	14,000	2,600	1,500	4,800	1,800	NA	NA	NA	NA	NA	10.61	4.00	6.61	0.7/0.5
MW-10	12/30/1998	17,800	2,820	NA	6,000	136	344	639	1,250	NA	NA	NA	NA	NA	10.61	5.26	5.35	1.0/0.7
MW-10 *	06/25/1999	17,600	NA	NA	6,150	212	287	687	1,740	NA	NA	NA	NA	NA	10.61	4.49	6.12	0.9/2.5
MW-10	12/28/1999	10,800	1,400	NA	3,370	155	321	626	3,740	NA	NA	NA	NA	NA	10.61	4.87	5.74	1.2/1.4
MW-10	05/31/2000	3,020	2,270	NA	1,080	34.3	118	251	775	NA	NA	NA	NA	NA	10.61	3.48	7.13	2.8/3.9
MW-10	10/17/2000	15,500	1,750 a	NA	7,450	54.7	387	308	3,840	4,300	NA	NA	NA	NA	10.61	4.25	6.36	2.3/3.0
MW-10	05/01/2001	27,900	2,260	NA	9,920	1,050	1,020	2,370	2,180	NA	NA	NA	NA	NA	10.61	5.40	5.21	2.0/1.1
MW-10	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	3.74	6.87	3.70/1.8
MW-10	11/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.61	6.08	4.53	0.6
MW-10	11/07/2001	14,000	360	NA	5,300	260	430	810	NA	1,700	NA	NA	NA	NA	10.61	5.45	5.16	1.8/1.0
MW-10	05/01/2002	79,000	<1,500	NA	16,000	4,400	3,300	8,800	NA	890	NA	NA	NA	NA	10.61	4.62	5.99	4.0/0.5
MW-10	07/16/2002	21,000	<1,000	NA	6,500	350	460	1,000	NA	1,200	NA	NA	NA	NA	10.61	5.80	4.81	0.5/1.5
MW-10	10/17/2002	17,000	<1,800	NA	5,800	290	520	1,100	NA	980	NA	NA	NA	NA	9.81	5.27	4.54	0.8/1.2
MW-10	01/21/2003	52,000	<2,000	NA	13,000	2,000	2,100	4,800	NA	<1,000	NA	NA	NA	NA	9.81	5.72	4.09	0.3/0.6
MW-10	05/01/2003	40,000	3,800 a	NA	13,000	1,700	2,200	5,000	NA	2,900	NA	NA	NA	NA	9.81	4.29	5.52	NA
MW-10	07/17/2003	13,000	1,700 a,f	NA	7,200	250	740	1,500	NA	2,400	NA	NA	NA	NA	9.81	5.05	4.76	NA
MW-10	10/02/2003	<5,000	1,400 a	NA	2,700	<50	56	<100	NA	2,800	NA	NA	NA	NA	9.81	5.46	4.35	NA
MW-10	01/05/2004	77,000	2,300 a	NA	21,000	4,200	3,900	8,500	NA	1,900	NA	NA	NA	NA	9.81	3.52	6.29	NA
MW-10	04/01/2004	33,000	3,100 a	NA	11,000	1,000	1,600	3,600	NA	5,200	NA	NA	NA	NA	9.81	4.12	5.69	NA
MW-10	08/02/2004	9,900	1,100 a	570	4,100	140	500	700	NA	3,800	<100	<100	<100	710	9.81	5.35	4.46	NA
MW-10	11/02/2004	48,000	3,500 g	<500	16,000	1,400	3,100	6,000	NA	3,100	NA	NA	NA	NA	9.81	5.06	4.75	NA
MW-10	**01/10/2005**	**120,000**	**4,200 g**	**<500**	**21,000**	**20,000**	**5,400**	**22,000**	**NA**	**16,000**	**NA**	**NA**	**NA**	**NA**	**9.81**	**3.14**	**6.67**	**NA**
MW-11	07/20/1993	50	ND	NA	2.5	1.9	3.9	18	NA	NA	NA	NA	NA	NA	10.56	8.08	2.48	NA
MW-11	10/18/1993	ND	65	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.24	2.32	NA
MW-11	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.47	2.09	NA
MW-11	04/12/1994	ND	ND	NA	1.1	0.87	ND	1.5	NA	NA	NA	NA	NA	NA	10.56	8.44	2.12	NA
MW-11	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.20	2.36	NA
MW-11	10/25/1994	ND	100	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	8.67	1.89	NA
MW-11	01/09/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	7.63	2.93	NA

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MW-11	04/11/1995	ND	140	NA	ND	0.7	ND	0.5	NA	NA	NA	NA	NA	NA	10.56	8.06	2.50	NA
MW-11	07/18/1995	ND	50	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.56	9.31	1.25	NA
MW-11	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.34	2.22	NA
MW-11	01/09/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.56	8.22	2.34	NA
MW-11	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.56	7.97	2.59	NA
MW-11	10/03/1996	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.56	8.37	2.19	3.6
MW-11	04/03/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.56	8.31	2.25	2.2
MW-11	10/08/1997	<50	54	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.56	8.56	2.00	1.2
MW-11	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.85	2.71	NA
MW-11	12/30/1998	<50.0	66.2	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	10.56	8.51	2.05	0.7/0.6
MW-11	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.01	2.55	NA
MW-11	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.56	8.39	2.17	0.8/1.0
MW-11	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.38	3.18	NA
MW-11	10/17/2000	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	10.56	8.35	2.21	4.1/4.0
MW-11	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.15	2.41	NA
MW-11	11/05/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	NA	NA	NA
MW-11	05/01/2002	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	NA	NA	NA
MW-11	05/08/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.56	7.82	2.74	1.0/1.1
MW-11	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.64	2.92	NA
MW-11	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	7.95	NA	1.3/1.0
MW-11	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.57	NA	NA
MW-11	05/01/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	7.62	NA	NA
MW-11	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.93	NA	NA
MW-11	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.56	NA	NA
MW-11	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.03	NA	NA
MW-11	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.55	NA	NA
MW-11	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.50	NA	NA
MW-11	11/02/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	7.41	NA	NA
MW-11	**01/10/2005**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**6.45**	**NA**	**NA**
MW-12	07/20/1993	ND	1,500	NA	2.8	1.9	3.2	ND	NA	NA	NA	NA	NA	NA	9.56	6.76	2.80	NA
MW-12	10/18/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	7.12	2.44	NA

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MW-12	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	7.15	2.41	NA
MW-12	04/12/1994	ND	ND	NA	0.61	ND	ND	1.1	NA	NA	NA	NA	NA	NA	9.56	6.68	2.88	NA
MW-12	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	6.83	2.73	NA
MW-12	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	7.34	2.22	NA
MW-12	01/09/1995	ND	80 a	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	5.02	4.54	NA
MW-12	04/11/1995	ND	200	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	7.38	2.18	NA
MW-12	07/18/1995	ND	90	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	9.56	8.50	1.06	NA
MW-12	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	6.63	2.93	NA
MW-12	01/09/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	9.56	6.32	3.24	NA
MW-12	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	9.56	5.60	3.96	NA
MW-12	10/03/1996	<50	72	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	9.56	3.30	6.26	2.5
MW-12	04/03/1997	<50	74	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	9.56	6.13	3.43	2.2
MW-12	10/08/1997	<50	73	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	9.56	6.49	3.07	3.0
MW-12	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	5.85	3.71	NA
MW-12	12/30/1998	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	9.56	8.42	1.14	1.3/0.9
MW-12	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	7.89	1.67	NA
MW-12	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	9.56	8.26	1.30	1.0/1.2
MW-12	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	7.21	2.35	NA
MW-12	10/17/2000	<50.0	82.9 a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	9.56	6.80	2.76	5.1/3.0
MW-12	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	5.95	3.61	NA
MW-12	11/05/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	NA	NA	NA
MW-12	05/01/2002	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	NA	NA	NA
MW-12	05/08/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	9.56	4.75	4.81	1.2/0.9
MW-12	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56	4.88	4.68	NA
MW-12	10/17/2002	<50	81	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	5.11	NA	1.8/1.5
MW-12	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.76	NA	NA
MW-12	05/01/2003	<50	95 a	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	5.00	NA	NA
MW-12	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.85	NA	NA
MW-12	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	5.02	NA	NA
MW-12	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.95	NA	NA
MW-12	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	5.04	NA	NA
MW-12	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.42	NA	NA

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Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-12	11/02/2004	<50	150 h	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	4.55	NA	NA
MW-12	**01/10/2005**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**5.81**	**NA**	**NA**
MW-13	07/20/1993	ND	1,500	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.32	1.78	NA
MW-13 (D)	07/21/1993	ND	1,000	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.32	1.78	NA
MW-13	10/18/1993	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.66	1.44	NA
MW-13	01/06/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.70	1.40	NA
MW-13	04/12/1994	ND	100	NA	1.7	1.2	0.59	2.4	NA	NA	NA	NA	NA	NA	10.10	8.20	1.90	NA
MW-13	07/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.39	1.71	NA
MW-13	10/25/1994	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	8.70	1.40	NA
MW-13	01/09/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	7.35	2.75	NA
MW-13	04/11/1995	ND	320	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	5.50	4.60	NA
MW-13	07/18/1995	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	10.10	6.63	3.47	NA
MW-13	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.12	1.98	NA
MW-13	01/09/1996	<50	ND	NA	<0.5	<0.5	<0.5	<0.5	ND	NA	NA	NA	NA	NA	10.10	7.74	2.36	NA
MW-13	04/02/1996	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.10	6.30	3.80	NA
MW-13	10/03/1996	<50	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	10.10	6.50	3.60	3.0
MW-13	04/03/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.10	7.58	2.52	2.0
MW-13	10/08/1997	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	10.10	8.17	1.93	1.0
MW-13	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	7.54	2.56	NA
MW-13	12/30/1998	<50.0	69.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	NA	NA	NA	NA	10.10	6.91	3.19	1.1/0.8
MW-13	06/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	6.31	3.79	NA
MW-13	12/28/1999	<50.0	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	10.10	6.65	3.45	0.8/1.0
MW-13	05/31/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	5.94	4.16	NA
MW-13	10/17/2000	<50.0	121 a	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	10.10	8.38	1.72	2.5/2.8
MW-13	05/01/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	7.65	2.45	NA
MW-13	11/05/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	NA	NA	NA
MW-13	05/01/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	10.10	6.80	3.30	3.5/3.5
MW-13	07/16/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.10	6.84	3.26	NA
MW-13	10/17/2002	<50	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	9.64	6.73	2.91	1.4/0.9
MW-13	01/21/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	6.99	2.65	NA
MW-13	05/01/2003	<50	<50	NA	3.4	0.75	1.1	2.7	NA	<5.0	NA	NA	NA	NA	9.64	6.62	3.02	NA

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MW-13	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.99	3.65	NA
MW-13	10/02/2003	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	9.64	6.81	2.83	NA
MW-13	01/05/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.98	3.66	NA
MW-13	04/01/2004	<50	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	9.64	5.09	4.55	NA
MW-13	08/02/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.64	5.49	4.15	NA
MW-13	11/02/2004	<50	<50	<500	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	9.64	5.99	3.65	NA
MW-13	**01/10/2005**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**9.64**	**5.63**	**4.01**	**NA**
VEW-5	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.91	NA	NA
VEW-5	10/17/2000	74,800	4,180 a	NA	9,090	14,600	2,630	14,500	632	NA	NA	NA	NA	NA	NA	2.65	NA	3.0/3.1
VEW-5	05/01/2001	94,800	5,350	NA	11,300	12,900	4,520	22,200	419	NA	NA	NA	NA	NA	NA	2.86	NA	0.4/0.6
VEW-5	11/05/2001	82,000	<1,600	NA	14,000	7,400	2,900	15,000	NA	740	NA	NA	NA	NA	NA	4.11	NA	0.6/c
VEW-5	05/01/2002	16,000	<3,000	NA	610	320	7.9	3,600	NA	310	NA	NA	NA	NA	NA	2.63	NA	4.7/2.9
VEW-5	07/16/2002	45,000	<3,000	NA	7,900	2,700	1,000	4,600	NA	920	NA	NA	NA	NA	NA	2.96	NA	0.4/0.3
VEW-5	10/17/2002	<50	200	NA	<0.50	<0.50	<0.50	<0.50	NA	46	NA	NA	NA	NA	8.81	3.55	5.26	1.1/1.0
VEW-5	01/21/2003	740	1,200	NA	53	22	17	70	NA	17	NA	NA	NA	NA	8.81	2.06	6.75	1.6/0.5
VEW-5	05/01/2003	1,500	1,000 a	NA	140	92	120	290	NA	11	NA	NA	NA	NA	8.81	2.34	6.47	NA
VEW-5	07/17/2003	4,200	1,400 a,f	NA	630	1,300	360	1,400	NA	38	NA	NA	NA	NA	8.81	3.36	5.45	NA
VEW-5	10/02/2003	10,000	3,500 a	NA	690	1,200	420	1,800	NA	54	NA	NA	NA	NA	8.81	3.65	5.16	NA
VEW-5	01/05/2004	180	530 a	NA	5.0	0.73	6.5	11	NA	1.9	NA	NA	NA	NA	8.81	2.02	6.79	NA
VEW-5	04/01/2004	2,800	2,500 a	NA	520	23	260	290	NA	55	NA	NA	NA	NA	8.81	2.77	6.04	NA
VEW-5	08/02/2004	8,900	3,800 a	550	790	74	600	1,600	NA	62	<40	<40	<40	<100	8.81	3.55	5.26	NA
VEW-5	11/02/2004	1,200	830 g	<500	72	5.8	83	100	NA	11	NA	NA	NA	NA	8.81	2.89	5.92	NA
VEW-5	**01/10/2005**	**<50**	**320 a**	**700**	**<0.50**	**<0.50**	**<0.50**	**2.0**	**NA**	**0.56**	**NA**	**NA**	**NA**	**NA**	**8.81**	**1.14**	**7.67**	**NA**
VEW-6	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.94	NA	NA
VEW-6	10/17/2000	63,800	4,820 a	NA	6,940	2,750	2,760	18,700	3,700	NA	NA	NA	NA	NA	NA	3.13	NA	2.0/2.1
VEW-6	05/01/2001	57,000	3,460	NA	6,280	697	2,640	15,800	6,240	NA	NA	NA	NA	NA	NA	3.25	NA	0.8/1.2
VEW-6	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.17	NA	3.0/1.7
VEW-6	11/05/2001	39,000	<1,300	NA	6,800	380	1,900	7,900	NA	8,800	NA	NA	NA	NA	NA	4.35	NA	0.8/1.3
VEW-6	05/01/2002	24,000	<4,500	NA	1,800	270	470	3,700	NA	3,100	NA	NA	NA	NA	NA	2.73	NA	0.2/0.4
VEW-6	07/16/2002	19,000	<2,700	NA	1,900	250	140	3,500	NA	2,900	NA	NA	NA	NA	NA	3.59	NA	0.3/0.2

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VEW-6	10/17/2002	<50	110	NA	<0.50	<0.50	<0.50	<0.50	NA	13	NA	NA	NA	NA	9.33	4.33	5.00	0.9/1.3
VEW-6	01/21/2003	900	<500	NA	30	1.1	20	61	NA	110	NA	NA	NA	NA	9.33	3.08	6.25	4.6/5.6
VEW-6	05/01/2003	1,100 a	290 a	NA	41	<5.0	58	66	NA	89	NA	NA	NA	NA	9.33	2.79	6.54	NA
VEW-6	07/17/2003	3,100	1,400 a,f	NA	400	30	280	820	NA	1,400	NA	NA	NA	NA	9.33	3.80	5.53	NA
VEW-6	10/02/2003	2,100	1,200 a	NA	310	37	200	420	NA	1,500	NA	NA	NA	NA	9.33	4.10	5.23	NA
VEW-6	01/05/2004	320	170 a	NA	4.9	0.54	3.3	18	NA	68	NA	NA	NA	NA	9.33	2.31	7.02	NA
VEW-6	04/01/2004	450	270 a	NA	44	1.6	23	24	NA	180	NA	NA	NA	NA	9.33	2.87	6.46	NA
VEW-6	08/02/2004	Well Inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.33	NA	NA	NA
VEW-6	11/02/2004	910	210 g	<500	35	1.4	39	79	NA	74	NA	NA	NA	NA	9.33	3.26	6.07	NA
VEW-6	**01/10/2005**	**110**	**150 a**	**<500**	**1.3**	**<0.50**	**1.3**	**3.3**	**NA**	**4.7**	**NA**	**NA**	**NA**	**NA**	**9.33**	**2.01**	**7.32**	**NA**
VEW-7	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.59	NA	NA
VEW-7	10/17/2000	74,300	3,990 a	NA	11,900	12,500	1,640	15,500	36,600	NA	NA	NA	NA	NA	NA	3.72	NA	3.5/4.1
VEW-7	05/01/2001	46,000	1,930	NA	7,250	5,300	1,960	9,820	15,600	16,900	NA	NA	NA	NA	NA	3.40	NA	0.8/0.8
VEW-7	05/29/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.54	NA	2.5/1.4
VEW-7	11/05/2001	38,000	<900	NA	9,300	610	1,700	6,000	NA	21,000	NA	NA	NA	NA	NA	4.85	NA	3.52/c
VEW-7	05/01/2002	590	<600	NA	6.3	7.2	<2.5	81	NA	1,100	NA	NA	NA	NA	NA	2.62	NA	2.9/3.3
VEW-7	07/16/2002	95	54	NA	1.5	<0.50	1.5	6.1	NA	100	NA	NA	NA	NA	NA	3.84	NA	3.6/2.5
VEW-7	10/17/2002	<50	110	NA	1.4	<0.50	<0.50	<0.50	NA	34	NA	NA	NA	NA	9.49	4.93	4.56	3.0/1.9
VEW-7	01/21/2003	<50	180	NA	0.88	<0.50	<0.50	4.2	NA	19	NA	NA	NA	NA	9.49	3.27	6.22	0.3/0.8
VEW-7	05/01/2003	2,200	1,000 a	NA	62	8.0	230	80	NA	360	NA	NA	NA	NA	9.49	2.95	6.54	NA
VEW-7	07/17/2003	<1,200	590 a,f	NA	97	19	150	110	NA	830	NA	NA	NA	NA	9.49	3.94	5.55	NA
VEW-7	10/02/2003	800	1,300 a	NA	78	11	170	49	NA	1,200	NA	NA	NA	NA	9.49	5.00	4.49	NA
VEW-7	01/05/2004	2,500	970 a	NA	120	13	86	300	NA	660	NA	NA	NA	NA	9.49	2.82	6.67	NA
VEW-7	04/01/2004	4,700	1,500 a	NA	100	42	240	680	NA	830	NA	NA	NA	NA	9.49	2.99	6.50	NA
VEW-7	08/02/2004	1,100	830 a	<500	60	6.5	30	120	NA	920	<20	<20	<20	430	9.49	4.45	5.04	NA
VEW-7	11/02/2004	Well Inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.49	NA	NA	NA
VEW-7	11/04/2004	7,900	2,700 g	<500	410	26	280	1,100	NA	2,100	NA	NA	NA	NA	9.49	3.57	5.92	NA
VEW-7	**01/10/2005**	**1,200**	**690 g**	**<500**	**110**	**<5.0**	**49**	**73**	**NA**	**530**	**NA**	**NA**	**NA**	**NA**	**9.49**	**2.26**	**7.23**	**NA**
AS-1	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.67	NA	NA
AS-1	10/17/2000	13,400	3,280 a	NA	1,600	82.8	<20.0	2,600	498	NA	NA	NA	NA	NA	NA	5.50	NA	2.0/2.5

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AS-1	05/01/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-1	11/05/2001	5,300	<900	NA	85	26	46	120	NA	190	NA	NA	NA	NA	NA	6.11	NA	0.4/0.5
AS-1	05/01/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.73	NA	NA
AS-1	07/16/2002	210	<150	NA	8.2	<0.50	7.9	3.5	NA	25	NA	NA	NA	NA	NA	5.59	NA	4.6/2.8
AS-1	10/17/2002	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.23	NA	NA	NA
AS-1	01/21/2003	<50	220	NA	0.62	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	8.23	9.51	-1.28	2.2/2.5
AS-1	05/01/2003	79	96 a	NA	2.2	0.99	5.1	4.8	NA	<5.0	NA	NA	NA	NA	8.23	5.75	2.48	NA
AS-1	07/17/2003	<50	79 a,f	NA	1.2	0.60	0.95	1.7	NA	3.6	NA	NA	NA	NA	8.23	5.90	2.33	NA
AS-1	10/02/2003	440	99 a	NA	12	49	22	94	NA	3.5	NA	NA	NA	NA	8.23	5.90	2.33	NA
AS-1	01/05/2004	<50	76 a	NA	0.75	<0.50	0.70	<1.0	NA	2.4	NA	NA	NA	NA	8.23	5.64	2.59	NA
AS-1	04/01/2004	<50	<50	NA	0.79	<0.50	<0.50	<1.0	NA	3.2	NA	NA	NA	NA	8.23	5.86	2.37	NA
AS-2	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.38	NA	NA
AS-2	10/17/2000	4,380	1,380 a	NA	167	<10.0	225	680	315	NA	NA	NA	NA	NA	NA	5.50	NA	3.1/3.0
AS-2	05/01/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-2	11/05/2001	2,200	<300	NA	100	0.99	91	21	NA	220	NA	NA	NA	NA	NA	5.99	NA	0.8/0.6
AS-2	05/01/2002	880	<300	NA	19	<0.50	31	22	NA	57	NA	NA	NA	NA	NA	5.25	NA	1.0/0.8
AS-2	07/16/2002	910	<200	NA	40	4.1	39	43	NA	78	NA	NA	NA	NA	NA	5.53	NA	0.7/0.9
AS-2	10/17/2002	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.65	NA	NA	NA
AS-2	01/21/2003	<50	140	NA	1.4	<0.50	2.0	0.94	NA	19	NA	NA	NA	NA	8.65	9.32	-0.67	1.4/1.6
AS-2	05/01/2003	56	120 a	NA	2.1	<0.50	4.7	<1.0	NA	12	NA	NA	NA	NA	8.65	6.74	1.91	NA
AS-2	07/17/2003	180	80 a,f	NA	11	0.56	34	13	NA	23	NA	NA	NA	NA	8.65	6.40	2.25	NA
AS-2	10/02/2003	320	190 a	NA	8.5	6.3	24	25	NA	21	NA	NA	NA	NA	8.65	6.20	2.45	NA
AS-2	01/05/2004	210	160 a	NA	1.4	<0.50	21	1.6	NA	15	NA	NA	NA	NA	8.65	6.32	2.33	NA
AS-2	04/01/2004	200	130 a	NA	0.87	<0.50	17	<1.0	NA	18	NA	NA	NA	NA	8.65	6.15	2.50	NA
AS-3	09/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.75	NA	NA
AS-3	10/17/2000	3,520	942 a	NA	588	521	41.2	566	1,740	NA	NA	NA	NA	NA	NA	6.18	NA	3.1/3.0
AS-3	05/01/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AS-3	11/05/2001	1,600	110	NA	41	4.9	8.2	30	NA	240	NA	NA	NA	NA	NA	6.41	NA	1.1/3.2
AS-3	05/01/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.90	NA	NA
AS-3	07/16/2002	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
AS-3	10/17/2002	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.84	14.78	-5.94	NA
AS-3	01/21/2003	<50	320	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	8.84	11.59	-2.75	2.2/1.1
AS-3	05/01/2003	57	150 a	NA	0.53	<0.50	4.7	2.7	NA	<5.0	NA	NA	NA	NA	8.84	6.44	2.40	NA
AS-3	07/17/2003	<50	110 a,f	NA	0.83	2.1	2.4	5.4	NA	2.5	NA	NA	NA	NA	8.84	6.55	2.29	NA
AS-3	10/02/2003	<50	96 a	NA	2.9	3.9	8.4	15	NA	8.1	NA	NA	NA	NA	8.84	6.55	2.29	NA
AS-3	01/05/2004	<50	120 a	NA	<0.50	<0.50	<0.50	<1.0	NA	1.5	NA	NA	NA	NA	8.84	6.47	2.37	NA
AS-3	04/01/2004	<50	110 a	NA	<0.50	<0.50	<0.50	<1.0	NA	2.8	NA	NA	NA	NA	8.84	6.32	2.52	NA

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8015.
TEPH = Total petroleum hydrocarbons ananlyzed by EPA Method 8015M.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to November 5, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
TOB = Top of Wellbox
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
n/n = Dissolved oxygen reading; pre-purge/post-purge.
NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH as Diesel (ug/L)	TEPH as Motor Oil (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

b = Sample was analyzed outside of EPA recommended holding time.

c = Post-purge DO reading not taken.

d = Lab did not record detected result.

e = Change in casing elevation due to wellhead maintenance.

f = TEPH with Silica Gel Cleanup.

g = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's standard.

h = Hydrocarbon reported is in the late Diesel range and does not match the laboratory's standard.

* All Diesel and motor oil samples for this event were lost in laboratory fire.

Site surveyed, except wells MW-11 and MW-12, on March 18, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

ATTACHMENT C

Field Data Sheets

CAMBRIA

DAILY FIELD REPORT

Name: 285	Cambria Mgr:	Field Person: MARK
ct Number: 246-0734-007	Date: 11/15/04	Site Address: 285 Hegenberger OAKLAND
eral Tasks: D.V E, SVE		

me	Activity/Comments	Codes	Hours
:05	ARRIVE @ 150TH SAN LEANDRO PICK UP SOLUTED SVE UNIT.		
:30	ARRIVE ON SITE 285 Hegenberger.		
	CHECK IN W/ STATION ATTENDANT. SURVEY SITE.		
:45	BAKER ARRIVES ON SITE, CALL [illegible] TROY FOR S.O.W.		
	TROY CALLED START ON MW-10, SCREENS 5-20' TO 20'.		
	PLACE BAKER TANK & GENERATOR IN BEST AVAILABLE SPOT.		
	SECURE AREA W/ CONES		
:30	SET UP & START GENERATOR		
	8:00 START SOLUTED & WARM UP.		
	SET UP DISCHARGE HOSE TO BAKER TANK		
:10	MEASURE DTW'S; MW-10 - 5.21' @ TOC		
	MW-4 4.54'		
	MW-8 4.10'		
	(MW-3) 5.00' - BEHIND BAKER TANK		
	(MW-1) 3.29' @ EXIT TO CAR WASH		
	MW-2 4.61'		
:15	START TO DEWATER MW-10 - CALIBRATE HORIBA		
:55	START STEP TEST. NARD TIME TO ACHIEVE 25" H20		
	ON INITIAL HEAD VACUUM JUMPS - LOT OF WATER IN SUCTION LINE		
	CONC. JUMPING FROM 28 PPM TO 7000 PPM IN BETWEEN		
	SLUGS OF WATER. WATER K.O. FOR VACUUM PUMP FILLS		
	VERY FAST.		
9:30	DAN ARRIVES ON SITE W/ SOW.		
9:45	TAKE SAMPLE MW-10-A		
	CALL STL FOR DAILY PICK UP @ 1-2 PM M-F		
	TAKE READINGS ACCORDINGLY		
	1:30 TAKE SAMPLE		

CAMBRIA

DVE TEST DATA FORM

Site Address: 285 Hegenberger [redacted]dro

Project No. [redacted]hog 246-0734-007

Incidient No. [redacted]

Date: 11/15/04

Technician: MARK

Project Mgr: Jason

Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (in Hg)	System Vac (in Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)	GW Totalizer (gal)	Radius of Influence (DTW or Vacuum. Note units.) MW-10	[redacted]	[redacted]
8:00	2646.3		START	Soil Gas &	BRING	up To	Temp.						
8:45			START	De-WATER	MW-10								
9:45	2648.0	15	13.70	157	O/R	66.5	10.28	525	N/m				
10:00	2648.3	15	13.71	157	O/R	WATER	90.1	790	N/m				
11:00	2649.1	28	25"	***		21.2	O/R	782	N/m				
11:10	2649.5	24.5	25"	***	85.2	7.59	O/R	63	N/m				
11:20	2649.10	18.75	20	74	116.5	8.57	204	7880	N/m				
11.25	2649.7	16.25	17.5	140	O/R	11.00	WATER	10120	N/m				
11.30	2649.8	13.25	15	188	O/R	H20/6.31	119.5	6040	N/m				
11:45	2650.1	20	17.5	102	116.0	7.69	211.5	9420	N/m				
12:00	2650.3	17	18.00	109	118.5	10.35	200.0	13650					
12:30	2650.8	17	18.5	118	123.5	10.20	169.5	10120	N/m				
1:00	2651.3	17	18.25	116	126.5	10.52	165.0	15150	N/m	35 Gallons	Prox.		
1:30	2651.8							13350	N/m				

NOTES:

Temp-DVE Test Fieldsheet * CHECKED DILUTION AIR TO 7.11 TO DILUTE BIG CONC. @ 1629 ppm W/O = 65 ppm DPE Op Form

CAMBRIA

DAILY FIELD REPORT

Project Name: 285 HEGENBERGER	Cambria Mgr: DAN LESCURE	Field Person: SUBBARAO V N.
Project Number: 246-0734-0001	Date: 4/16/2004	Site Address: 285 HEGENBERGER ROAD OAKLAND, CA
General Tasks: DPE TEST		

Time	Activity/Comments	Hours
07:15	ARRIVED ON SITE, CHECK-IN W/ STATION ATTENDANT	
07:30	. STARTED COLLECTING DATA	
	- CONTINUED DATA COLLECTION WHILE ADJUSTING DIL FLOW & SYSTEM VACUUM	
	- NOT A LOT OF WATER BEING GENERATED	
11:30	CALLED DAN AND CONTINUE DATA COLLECTION	
14:30	COLLECTED LAST SET OF DATA AND DEPART SITE.	

F:\TEMPLATE\FORMS\FIELD\FIELDRPT.WPD
NSM 8/16/94

CAMBRIA

DPE TEST DATA FORM

Site Address: 285 Hegenberger Rd., Oakland
Project No. 246-0734-007
Incidient No. 98995749

Date: 11/16/2004
Technician: SUBBARAO V.N.
Project Mgr: DAN LESCURE

Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (In Hg)	System Vac (in Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)	GW Totalizer (gal)		Radius of Influence (DTW or Vacuum. Note units.) MW-4	MW-3	MW-8	VEW-7
07:30	2669.8	16	18	~~XXX~~	OR	–	158.1	–	–	–		–	–	–	–
08:10	2670.4	16	198A WC	~~XXX~~	OR	–	158.2	328	–	–		–	–	–	–
08:45	2671.0	16	199.4 WC	~~XXX~~	122.5	–	158.2	336	–	–		–	–	–	–
09:30	2671.8	18	224.4 WC	~~XXX~~	119.0	–	184.9	310	–	–		0	0	0	–
09:45	2672.1	18	225.0	110/225	123/215 WC	–	186.1	323	–	–		0	0	0	–
10:15	2672.6	24	24 Hg	55.6	439	11.7	OR	108	–	~30 GAL	IN KO	0	0	0	–
10:45	2673.1	20	20	81.7	95.4	?	206.2	394	–	–		0	0	0	–
11:15	2673.6	20	20	83.4	98A	?	208.6	442	–	~32 GAL	IN KO	0	0	0	–
11:45	2674.1	20	20	74.7	84.6	?	210.6	752	–	~33 GAL		0	0	0	0
12:15	2674.6	20	20	76.2	85.2	?	209.8	748	–	~34 GAL		0	0	0	0
12:45	2675.1	20.5	20.5	74.3	84.5	?	218.1	1,190	–	–		0	0	0	0
13:15	2675.6	18	20??	88A	122.5	?	185.2	1,208	–	~41 GAL		0	0	0	0
13:45	2676.1	18	20?	88A	122.5	?	183.1	1,156	–	–		0	0	0	0
14:30	2676.8	18	20?	88A/109	123.0	?	183.0	1,179	–	~47.5 GAL		0	0	0	0

NOTES:

CAMBRIA

DAILY FIELD REPORT

Project Name: 285 Hegenberger	Cambria Mgr: DAN	Field Person: MARK / SUBBARAO
Project Number: 246-0734-007	Date: 11/17/04	Site Address: 285 Hegenberger
General Tasks: DVE		

Time	Activity/Comments	Hours
6:30	ARRIVE ON SITE, SYSTEM ON, RETRIEVE TEST EQUIPMENT FROM LOCKER & SET UP WARM UP & CALIBRATE HORIBA	
7:00	TAKE READINGS. CONC. @ 28,950 PPM	
7:15	TAKE SAMPLE CONC @ 23,420 PPM, MW-10-E TAKE READINGS	
7:30	SHUT DOWN, PICK UP TO MOVE TO EAST SIDE OF LOT. SUBBARAO ARRIVES ON SITE.	
	BENECO FUEL TRUCK PULLS ON SITE. WAIT FOR OPENING FOR SOLECO. & GENERATOR.	
	DISCHARGE HOSE APPEARS TO HAVE SEVERAL LEAKS. - REPLACE. ALTHOUGH THE PUMP WAS NOT TURNED ON... GRAVITY FLOW LEAK	
8:40	RESTART SOLECO & WARM UP TO TEMP. EXTEND SUCTION HOSE & SET UP ON MW-9, MW-5, MW-11	
	TRIP TO HOME DEPOT TO PURCHASE DISCHARGE HOSE BAKER TANK 200+ FROM ENTRAPMENT POND CALL DAN.	
11:00	DISCHARGE EXTRACTION WATER TO SUMP TANK ON SITE WITH NO WATER PUMPED INTO BAKER TANK I CALLED TO HAVE IT PICKED UP FROM SITE.	
11:15	SUBBARAO - CALLS FOR FUEL. 3/8 TANK IN GENERATOR	
12:00	DEPART SITE, SUBBARAO ON SITE,	
12:30	CALL DAN, LOW FLOW & CONC. CONTINUE DATA COLLECTION	
14:30	COLLECT AIR SAMPLES & HAND OVER TO STL COURIER, RECEIVE FUEL FOR GENERATOR	
15:00	COLLECT LAST SET OF DATA & DEPART SITE	

CAMBRIA

DPE TEST DATA FORM

Site Address: 285 Hegenberger Rd., Oakland
Project No. 246-0734-007
Incident No. 98995749

Date: 11/17/04
Technician: MARK ISUBBARAO
Project Mgr: DAN LECLURE

Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (In Hg)	System Vac (In Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)	GW Totalizer (gal)	Radius of Influence (DTW or Vacuum. Note units.) MW-10	MW-9 10.7 TD			
7:00	2693.4	18.5	16.75	101	O/R	5.13	188.0	289.50	N/M						
* 7:15	2693.7	18.5	16.75	103	O/R	7.25	189.5	23420	N/M						
7:30	2694.0	18.5	16.75	102	O/R	7.19	188.5	21340	N/M	~65GAL	8.52'	PULLED STINGER TO MOVE UNIT			
8:40	2694.1	RE-START Soltesco @ NEW LOCATION EAST SIDE									LOD. & BRING TO Temp. 5.42'				
09:30	2694.9	10	5	98	O/R	-	32.8	34	-	-					
09:45	2695.1	10	5	96	O/R	-	33.1	23	-	-					
10:00	2695.3	15	10	74	O/R	-	65.2	21	-	-					
10:15	2695.6	20	15	54	99.2	-	100.3	44	-	-					
* 10:25	2695.8	23	19.5	60.9 VC	99.8	1.1 A	172.4	51	-	-					
11:00	2696.4	23	20.5	62.9 VC	60.9	2.0 A	170.2	28	-	-					
11:45	2697.2	17.5	21(??)	135 VC	OR VC	102 ?? VC	186.8	33	-	-					
12:15	2697.7	18.5	21(??)	120 VC	OR VC	-	189.2	31	-	-					
12:45	2698.2	20	23(??)	126 VC	OR VC	2.17 A	190.5	42	-	-					
13:30	2698.9	20	23.5(??)	103.5 VC	98.8 VC	4.32 VC	191.7	29	-	-					
14:00	2699.4	20	23.5(??)	112.1 VC	101.9 VC	-	191.3	38	-	-					
* 14:30	2699.9	20	23.5(??)	108.3 VC	104.2 VC	4.47 VC	190.8	45	-	-					
15:00	2700.4	20	23.5(??)	104.8 VC	106.3 VC	3.19 VC	191.5	52	-	-					

NOTES: * Sampled MW-10-E, MW-9-A MW-9-B
VC - DATA OBTAINED USING VELOCICALC
OR - OVER RANGE
A = WELL FLOW = SYS FLOW - DIL. FLOW

CAMBRIA

DAILY FIELD REPORT

Project Name: 285 HEGENBERGER	Cambria Mgr: DAN LESCURE	Field Person: SUBBARAO V.N.
Project Number: 2460734-007	Date: 11/18/2004	Site Address: 285 HEGENBERGER ROAD OAKLAND, CA
General Tasks:		

Time	Activity/Comments	Hours
07:15	ARRIVE ON SITE	
07:30	START COLLECTING DATA, STILL LOW VAPOR FLOW & LOW HC CONC.	
	ADJUSTED SYSTEM VACUUM, NO DIFFERENCE IN FLOW & CONC.	
09:30	CALLED DAN AND LEFT A MESSAGE RE: STATUS AND COLLECTED SAMPLE	
10:00	DAN CALLED AND GAVE GO AHEAD TO MOVE THE TEST TO MW-1	
10:30	STARTED EXTRACTING FROM MW-1, INITIALLY DEWATERED THE WELL AND	
	SET STINGER AT THE BOTTOM OF THE WELL.	
11:30	COLLECTED START SAMPLE FROM WELL MW-1	
12:30	BAKER TANK PICKED UP	
14:45	CALLED DAN @ WATER BEING GENERATED @ ~0.5 GPM & TANK CAPACITY	
	NOT ENOUGH, DAN WILL BRING ANOTHER TANK AND DROP-OFF ON SITE	
	LATER IN THE DAY.	
	BROUGHT THE STINGER UP TO 8', NO CHANGE IN CONC & WATER	
	FLOW RATE.	
15:00	DROPPED STINGER BACK TO BOTTOM OF WELL, COLLECTED END SAMPLE.	
15:30	SECURE EQUIPMENT & DEPART SITE.	

CAMBRIA

DPE TEST DATA FORM

Site Address: 285 Hegenberger Rd., Oakland
Project No. 246-0734-007
Incidient No. 98995749

Date: 11/18/2004
Technician: SUBBARAO V.N.
Project Mgr: DAN LESCURE

	Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (in Hg)	System Vac (in Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)	GW Totalizer (gal)	Radius of Influence (DTW or Vacuum. Note units.)				
MW-9	07:30	2717.0	20.5	21	82.1 VC	78.4 VC	1.21 VC	OR	7	—	NV					
	08:00	2717.5	20.5	21	83.2 VC	77.6 VC	2.83 VC	OR	4	—	NV					
	08:30	2718.0	20	20	78.4 VC	72.1 VC	1.81 VC	OR	8	—	NV					
	09:00	2718.5	20	20	79.3 VC	60.5 VC	5.41 VC	OR	5	—	NV					
*	09:30	2719.0	20	20	78.9 VC	73.5 VC	2.17 VC	OR	3	—	NV					
	10:00	2719.5	20	21	96.0 VC	94.8 VC	4.39 VC	OR	3	—	NV					
MW-1	10:30	2720.0	23	25?	66.1 VC	63.3 VC	WATER	198.2	137	—	NV					
	10:45	2720.3	23	25?	65.9 VC	62.9 VC	WATER	199.1	411	—	~46 GAL IN KO					
	11:00	2720.5	20	20	66.2 VC	64.8 VC	WATER	198.8	563	—	~55 GAL					
	11:15	2720.7	23	25?	64.8 VC	62.7 VC	WATER	195.2	927	—	~72 GAL (1)					
*	11:30	2721.0	18	19.5?	117 (A)	116.5 VC / 194.7 VC	WATER	105.4	4,930	—	~29 GAL					
	11:45	2721.3	15.5	17.5?	159 (A)	OR	WATER	30-78 (B)	4,950	—	~38 GAL					
	12:00	2721.5	18	19.5?	112 (A)	OR 196.1 VC	WATER	108.6	4,140	—	~47.5 GAL					
	12:30	2722.0	19	20?	81 (A) 99.6 VC 224.2 VC	104.5 VC / 215.5 VC	WATER	130.1	3480	—	~67 GAL					
	13:00	2722.5	18.5	20?	85 (A)	110.6 VC	WATER	128.2	3,108	—	—	KO PUMPED ~72 GAL @ 12:45				
	13:30	2723.0	18.5	20?	92 (A)	108.2 VC	WATER	131.4	3,359	—	—					
	14:00	2723.5	18.5	20?	94 (A)	124.5 VC	WATER	116.3	3,230	—	~61 GAL					
	14:30	2724.0	19	20?	98 (A)	119.2 VC	WATER	129.3	3,140	—	—	KO PUMPED ~72 GAL @ 14:15				
*	15:00	2724.5	20.5	18	109 (A)	105.2 VC	WATER	118.9	4,120	—	—					
	15:30	2725.0	20.5	18	107 (A)	108.3 VC	WATER	121.4	4,010	—	~32 GAL					

NOTES: VC: MEASURED USING VELOCICALC; OR: OVER RANGE; —: NOT MEASURED; NV: NOT VISIBLE, LEVEL BELOW CLEAR SIGHT GLASS SECTION
*: COLLECTED SAMPLE FOR LAB ANALYSIS (1): KO XFER PUMP EMPTIED & KO (~72 GAL)
(A): DATA FROM FLOW METER ON CONTROL PANEL (B): WELLHEAD VACUUM FLUCTUATING DUE TO PLUG FLOW OF WATER, VAC INCREASES IMMEDIATELY FOLLOWING FLOW OF WATER AND THEN GRADUALLY DECREASES AGAIN

CAMBRIA

DPE TEST DATA FORM

Site Address: 285 Hegenberger Rd., Oakland
Project No. 246-0734-007
Incidient No. 98995749

Date: 11/19/04
Technician: MARK
Project Mgr:

From 3" pipe w/ velocicalc

	Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (in Hg)	System Vac (in Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)	GW Totalizer (gal)		Radius of Influence (DTW or Vacuum. Note units.) System Flow	DTW MW-1	DTW MW-10		
MW-1	8:00	2741.5	24.5	21	249	O/R	25.8	167.4	296	N/M							
	8:30	2742.0	16	10	94	O/R	840	26.5	903				57.8				
	8:40	2742.2	17.5	12.5	[illegible]	O/R	420	102.5	1221				65.3				
*	9:00	2742.5	18	15.5	246	1085	8.38	145.2	2380								
	9:30	2743.0	18.5	20.5	269	O/R	420	137.8	2030				106.5				
*	10:50	2744.4	18.5	21.5	182	O/R	39.3	137.2	1642				108.5				
		SHUT DOWN		MOB BACK TO MW-10									12	9.22'			
MW-10	12:00	2744.8	START	SOLLERS @ MW-10					500-12,500 PPM						4.50'		
	12:30	2745.3	18.5	16	242	O/R	8.38	118.0	5240								
	12:45	2745.5	18.5	16	246	O/R	10.21	112.0	12,360								
*	1:00	2745.8	18.5	16	249	O/R	10.50	113.5	5270								
	2:15	2747.1	18.5	16	125	O/R	8.12	139.5	6780				1100				
11/22/04	7:30	2812.5	19.25	13"	94	127.0	15.30	127.9	23,870								
	7:35	2812.6	15.25	13	97	128.5	14.71	130.9	22,980								
	7:45	2812.8	15.25	13	97	129.5	16.10	132.4	20,630								

NOTES: MEASURED WATER EXTRACTION RATE @ .46 GPM

* SAMPLED MW-1-C

* SAMPLED MW-1 D

* SAMPLED MW-10-F @ 12:55 5825 PPM, CONC. JUMP FROM 3600 TO 14370 PPM.

CAMBRIA

DAILY FIELD REPORT

Project Name: 285 HEGENBERGER	Cambria Mgr: DAN LESCURE	Field Person: SUBBARAO V.N.
Project Number: 246-0734	Date: 11/23/2004	Site Address: 285 HEGENBERGER RD. OAKLAND, CA
General Tasks:		

Time	Activity/Comments	Hours
07:00	ARRIVED @ EMERYVILLE OFFICE TO GET EQUIPMENT FROM ROWAN PENNELL	
07:30	ARRIVED ON SITE, SYSTEM RUNNING, COLLECTED DATA SET	
	HOSE FROM K.O. TRANFER PUMP TO STORAGE TANK IS CRACKED AND	
	DAMAGED.	
08:30	COLLECTED VAPOR SAMPLE FOR LAB ANALYSIS [MW-10-G]	
10:00	CALLED DAN, GAVE UPDATE ON STATUS	
11:30	WENT TO HOME DEPOT & BOUGHT NEW HOSE, RAN THE HOSE	
	AROUND THE BUILDING.	
13:15	STL CAME ON SITE FOR SAMPLE P/U. COLLECTED VAPOR SAMPLE FOR	
	LAB ANALYSIS [MW-10-H] @ 1320hrs.	
13:30	CONTINUE DATA COLLECTION	
15:00	SECURE EQUIPMENT & LEAVE SITE	

CAMBRIA

DPE TEST DATA FORM

Site Address: 285 Hegenberger Rd., Oakland
Project No. 246-0734-007
Incidient No. 98995749

Date: 11/23/2004
Technician: SUBBARAO V.N.
Project Mgr: DAN LESCURE

Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (in Hg)	System Vac (in Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)	GW Totalizer (gal)	Radius of Influence (DTW or Vacuum. Note units.) MW-4	MW-5	MW-6		
07:30	2836.6	20	15	83	119 VC	13.12 VC	156	19,990	–	–	–				
08:00	2837.1	20	15	82	118 VC	12.89 VC	156	18,470	–	–	–				
* 08:30	2837.6	20	15	83	OR VC	14.52 VC	156	20,120	–	–	4.95'				
09:00	2838.1	20	15	83	119 VC	13.61 VC	156	19,660	–	–	4.95'				
09:30	2838.6	20	15	81	OR VC	11.91 VC	156	24,010	–	–	4.95'				
10:15	2839.3	20	15	82	120 VC	10.48 VC	156	22,030	–	–	4.95'				
10:45	2839.8	20	15	81	119 VC	11.52 VC	156	21,240	–	–	–				
11:30	2840.6	20	15	81	OR VC	9.19 VC	156	20,190	–	–	–				
12:00	2841.1	20	15.5	82	118 VC	8.59 VC	156	19,970	–	–	–				
12:30	2841.6	20	15.5	79	115 VC	10.12 VC	156	20,580	–	–	–				
13:00	2842.1	20	15.5	79	119 VC	10.53 VC	156	19,840	–	–	–				
1320 * 13:30	2842.6	20	15.5	79	116 VC	9.89 VC	156	19,080	–	~42 GAL	4.95'				
14:00	2843.1	20	15.5	81	120 VC	8.46 VC	156	21,420	–		–				
14:30	2843.6	20	15.5	82	118 VC	8.97 VC	156	20,590	–	~45 GAL	–				
15:00	2844.1	20	15.5	79	116 VC	8.54 VC	156	18,560	–	~48 GAL	–				

NOTES: VC = MEASURED USING VELOCICALC, OR = OVER INSTRUMENT RANGE, * = COLLECTED SAMPLE FOR LAB ANALYSIS

CAMBRIA

DAILY FIELD REPORT

Project Name: 285 HEGENBERGER	Cambria Mgr: DAN LESCURE	Field Person: SUBBARAO V.N
Project Number: 246-0734	Date: 11/24/2004	Site Address: 285 HEGENBERGER ROAD OAKLAND, CA
General Tasks:		

Time	Activity/Comments	Hours
07:30	ARRIVED ON SITE. SYSTEM OFF @ 2855.7 HRS ON SYSTEM HOUR METER.	
	AIR PRESSURE ALARM WAS TRIGGERED. WATER LEVEL IN KO ABOVE HIGH	
	LEVEL, JUST APPROACHED HIGH-HIGH LEVEL. PROBABLY HIGH WATER LEVEL	
	IN KO CAUSED LOW AIR FLOW (??)	
	STARTED KO TRANSFER PUMP IN MANUAL MODE TO PUMP OUT AND RESTARTED	
	SYSTEM.	
08:00	SYSTEM @ TEMPERATURE, HOOKED-UP WELL AND CONTINUED W/ DPE ON WELL	
	MW-10.	
09:00	COLLECTED VAPOR SAMPLE FOR LAB ANALYSIS [MW-10-I].	
09:20	CALLED DAN TO GIVE AN UPDATE ON STATUS,	
	CALLED NESCO TO CALL OFF GENERATOR AT THE END OF DAY.	
13:30	COLLECTED END VAPOR SAMPLE FOR LAB ANALYSIS [MW-10-J].	
14:00	SHUT DOWN SYSTEM & WRAP-UP. GENERATOR PICKED UP BY NESCO.	
15:00	DEPART FROM SITE.	

CAMBRIA

DPE TEST DATA FORM

Site Address: 285 Hegenberger Rd., Oakland
Project No. 246-0734-007
Incident No. 98995749

Date: 11/24/2004
Technician: SUBBARAO V.N.
Project Mgr: DAN UESCURE

	Time (hh:mm)	Hour Meter (hrs)	LR Pump Vac (in Hg)	System Vac (in Hg)	System Flow (cfm)	Dilution Flow (cfm)	Well Flow (cfm)	Well Vac (inWC)	Well Vapor (ppmv)	Effluent Vapor (ppmv)	GW Totalizer (gal)		Radius of Influence (DTW or Vacuum. Note units.)
	08:00	2856.0	20	15	73	115.0 VC	5.69 VC	160	18,690	–	~30 GAL	W	KO
	08:30	2856.5	20	15	72	112.0 VC	8.43 VC	160	19,980	–	–		
*	09:00	2857.0	20	15	68	111.5 VC	10.65 VC	160	22,140	–	~34 GAL		
	09:30	2857.5	20	15	63	101.5 VC	8.14 VC	160	17,250	–	~37 GAL		
	10:00	2858.0	20	15	62	102.8 VC	8.67 VC	160	20,490	–	–		
	10:30	2858.5	20	15	61	111.5 VC	8.54 VC	160	19,420	–	~41 GAL		
	11:00	2859.0	20	16	56	112.0 VC	8.21 VC	160	22,490	–	~45 GAL		
	11:30	2859.5	20	16	56	108.0 VC	WATER	160	22,200	–	~47 GAL		
	12:00	2860.0	20	17	53	112.0 VC	8.91 VC	160	20,860	–	–		
	12:30	2860.5	20	17.5	51	118.0 VC	6.89 VC	160	24,630	–	~52 GAL	–	PUMPED OUT IN MANUAL MODE
	13:00	2861.0	20	17.5	51	118.0 VC	7.15 VC	160	21,590	–	–		
*	13:30	2861.5	20	17.5	51	118.0 VC	6.95 VC	160	22,710	–	–		
	14:00	2862.0	20	17.5	52	117.0 VC	9.46 VC	160	20,960	–	–	–	EMPTY KO & SHUT DOWN SYSTEM

NOTES: VC = MEASURED USING VELOCICALC, * = COLLECTED SAMPLE FOR LAB ANALYSIS, OR = OUT OF INSTRUMENT RANGE

ATTACHMENT D

Certified Laboratory Analytical Reports

SEVERN TRENT STL

Submission#: 2004-11-0484

Cambria Environmental Emeryville

December 01, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Karen Newton

Project#: 246-0932
Project: 98995749
Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Newton,

Attached is our report for your samples received on 11/15/2004 13:31
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/30/2004 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-11-0484

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-11-A	11/15/2004 11:45	Air	1
MW-11-B	11/15/2004 13:30	Air	2

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-11-A**	Lab ID:	2004-11-0484 - 1
Sampled:	11/15/2004 11:45	Extracted:	11/18/2004 13:13 11/18/2004 11:21
Matrix:	Air	QC Batch#:	2004/11/18-1A.64 2004/11/18-1S.64

Analysis Flag: H3 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	2100	14	ppmv	5.00	11/18/2004 13:13	H2
Benzene	51	0.31	ppmv	2.00	11/18/2004 11:21	
Toluene	35	0.26	ppmv	2.00	11/18/2004 11:21	
Ethylbenzene	12	0.23	ppmv	2.00	11/18/2004 11:21	
Total xylenes	34	0.046	ppmv	2.00	11/18/2004 11:21	
Methyl tert-butyl ether (MTBE)	8.7	0.14	ppmv	2.00	11/18/2004 11:21	
Surrogate(s)						
1,2-Dichloroethane-d4	98.6	76-130	%	5.00	11/18/2004 13:13	H2
1,2-Dichloroethane-d4	101.9	76-130	%	2.00	11/18/2004 11:21	
Toluene-d8	94.0	78-115	%	5.00	11/18/2004 13:13	H2
Toluene-d8	92.6	78-115	%	2.00	11/18/2004 11:21	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

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

Sample ID: **MW-11-B**
Lab ID: 2004-11-0484 - 2

Sampled: 11/15/2004 13:30
Extracted: 11/18/2004 11:43
11/30/2004 10:17

Matrix: Air
QC Batch#: 2004/11/18-1S.64
2004/11/30-1A.65

Analysis Flag: H3 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	2500	140	ppmv	10.00	11/30/2004 10:17	H2
Benzene	69	0.31	ppmv	2.00	11/18/2004 11:43	
Toluene	48	0.26	ppmv	2.00	11/18/2004 11:43	
Ethylbenzene	16	0.23	ppmv	2.00	11/18/2004 11:43	
Total xylenes	47	0.23	ppmv	2.00	11/18/2004 11:43	
Methyl tert-butyl ether (MTBE)	15	0.14	ppmv	2.00	11/18/2004 11:43	
Surrogate(s)						
1,2-Dichloroethane-d4	100.1	76-130	%	10.00	11/30/2004 10:17	H2
1,2-Dichloroethane-d4	110.9	76-130	%	2.00	11/18/2004 11:43	
Toluene-d8	99.1	78-115	%	10.00	11/30/2004 10:17	H2
Toluene-d8	92.5	78-115	%	2.00	11/18/2004 11:43	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/18-1A.64**

MB: 2004/11/18-1A.64-025 — Date Extracted: 11/18/2004 07:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/18/2004 07:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/18/2004 07:25	
Benzene	ND	0.5	ug/L	11/18/2004 07:25	
Toluene	ND	0.5	ug/L	11/18/2004 07:25	
Ethylbenzene	ND	0.5	ug/L	11/18/2004 07:25	
Total xylenes	ND	1.0	ug/L	11/18/2004 07:25	
Surrogates(s)					
1,2-Dichloroethane-d4	101.2	76-130	%	11/18/2004 07:25	
Toluene-d8	94.4	78-115	%	11/18/2004 07:25	

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

Cambria Environmental Emeryville
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Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/18-1S.64**

MB: 2004/11/18-1S.64-025 — Date Extracted: 11/18/2004 07:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/18/2004 07:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/18/2004 07:25	
Benzene	ND	0.5	ug/L	11/18/2004 07:25	
Toluene	ND	0.5	ug/L	11/18/2004 07:25	
Ethylbenzene	ND	0.5	ug/L	11/18/2004 07:25	
Total xylenes	ND	1.0	ug/L	11/18/2004 07:25	
Surrogates(s)					
1,2-Dichloroethane-d4	101.2	76-130	%	11/18/2004 07:25	
Toluene-d8	94.4	78-115	%	11/18/2004 07:25	

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

Cambria Environmental Emeryville

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Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/30-1A.65**

MB: 2004/11/30-1A.65-044 — Date Extracted: 11/30/2004 07:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/30/2004 07:44	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/30/2004 07:44	
Benzene	ND	0.5	ug/L	11/30/2004 07:44	
Toluene	ND	0.5	ug/L	11/30/2004 07:44	
Ethylbenzene	ND	0.5	ug/L	11/30/2004 07:44	
Total xylenes	ND	1.0	ug/L	11/30/2004 07:44	
Surrogates(s)					
1,2-Dichloroethane-d4	105.2	76-130	%	11/30/2004 07:44	
Toluene-d8	98.4	78-115	%	11/30/2004 07:44	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/18-1A.64**

LCS 2004/11/18-1A.64-003 Extracted: 11/18/2004 Analyzed: 11/18/2004 07:03

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.2		25	104.8			65-165	20		
Benzene	25.6		25	102.4			69-129	20		
Toluene	27.3		25	109.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	479		500	95.8			76-130			
Toluene-d8	502		500	100.4			78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/18-1S.64**

LCS 2004/11/18-1S.64-003 Extracted: 11/18/2004 Analyzed: 11/18/2004 07:03

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.2		25	104.8			65-165	20		
Benzene	25.6		25	102.4			69-129	20		
Toluene	27.3		25	109.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	479		500	95.8			76-130			
Toluene-d8	502		500	100.4			78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/30-1A.65**

LCS 2004/11/30-1A.65-019 Extracted: 11/30/2004 Analyzed: 11/30/2004 07:19
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	20.9		25	83.6			65-165	20		
Benzene	23.2		25	92.8			69-129	20		
Toluene	24.0		25	96.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	423		500	84.6			76-130			
Toluene-d8	534		500	106.8			78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/18-1A.64**

MS/MSD

Lab ID: 2004-11-0246 - 001

MS: 2004/11/18-1A.64-028 Extracted: 11/18/2004 Analyzed: 11/18/2004 12:28

Dilution: 1.00

MSD: 2004/11/18-1A.64-050 Extracted: 11/18/2004 Analyzed: 11/18/2004 12:50

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	45.1	57.5	21.9	25	92.8	142.4	42.2	65-165	20		R1
Benzene	20.0	25.8	ND	25	80.0	103.2	25.3	69-129	20		R1
Toluene	21.2	28.3	ND	25	84.8	113.2	28.7	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	519	506		500	103.8	101.2		76-130			
Toluene-d8	504	486		500	100.8	97.2		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/18-1S.64**

MS/MSD

Lab ID: 2004-11-0246 - 001

MS: 2004/11/18-1S.64-028 Extracted: 11/18/2004 Analyzed: 11/18/2004 12:28

Dilution: 1.00

MSD: 2004/11/18-1S.64-050 Extracted: 11/18/2004 Analyzed: 11/18/2004 12:50

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	45.1	57.5	21.9	25	92.8	142.4	42.2	65-165	20		R1
Benzene	20.0	25.8	ND	25	80.0	103.2	25.3	69-129	20		R1
Toluene	21.2	28.3	ND	25	84.8	113.2	28.7	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	519	506		500	103.8	101.2		76-130			
Toluene-d8	504	486		500	100.8	97.2		78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/30-1A.65**

MS/MSD

Lab ID: 2004-11-0694 - 001

MS: 2004/11/30-1A.65-043 Extracted: 11/30/2004

Analyzed: 11/30/2004 08:43

Dilution: 1.00

MSD: 2004/11/30-1A.65-006 Extracted: 11/30/2004

Analyzed: 11/30/2004 09:06

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	28.0	31.5	ND	25	112.0	126.0	11.8	69-129	20		
Toluene	30.7	31.4	ND	25	122.8	125.6	2.3	70-130	20		
Methyl tert-butyl ether	31.2	36.1	ND	25	124.8	144.4	14.6	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	446	497		500	89.2	99.4		76-130			
Toluene-d8	543	546		500	108.5	109.2		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/15/2004 13:31

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Analysis Flag

H3

Initial analysis within holding time but required dilution.

Result Flag

H2

Analyzed out of holding time.

R1

Analyte RPD was out of QC limits.

SHELL Chain Of Custody Record

95724

STL-San Francisco

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

Shell Project Manager to be invoiced:
☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT/HOUSTON
Karen Petryna

2004-11-0484

INCIDENT NUMBER (S&E ONLY): 98995745
SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/15/04
PAGE: ____ of ____

Name and Company: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC	Cost Code:
Address: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608	Site Address (Street and City): 285 Hegenberger Rd., Oakland, CA
Project Contact (Hardcopy or PDF Required): Karen Newton	Global ID No.:
Telephone: (510) 420-3339	Fax: (510) 420-9170
Email: knewton@cambria-env.com	EDF Deliverable To (Responsible Party or Designee):
Phone No.:	E-mail:
Consultant Project No.: 246-0932	
Sampler Name(s) (Print): Mark Johnson	Lab Use Only

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

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: _____

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

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

48-hour hold time for vapor samples

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	Sampling Date	Sampling Time	Matrix	No. of Cont.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ± Total ± STLC ± TCLP	LUFT 5 ± Total ± STLC ± TCLP	CAM17 ± Total ± STLC ± TCLP	Test for Disposal						
	MW-11-A	11/15	11:45	VAPOR	1	X		X	X																	
	MW-11B	11/15	1:30		1	X		X	X																	

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

TEMPERATURE ON RECEIPT C°: 19
tedlar bag

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Mark Johnson	SOS MIKE - World Courier	111504	1331
SOS MIKE	Jerry O'Brien	111504	1625
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/16/00 Revision

SEVERN TRENT STL

Submission#: 2004-11-0503

Cambria Environmental Emeryville

November 24, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Karen Newton

Project#: 246-0932
Project: 98995749
Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Newton,

Attached is our report for your samples received on 11/16/2004 12:10
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/31/2004 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-11-0503

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/16/2004 12:10

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10-C	11/16/2004 08:45	Air	1

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/16/2004 12:10

Site: 285 Hegenberger Rd., Oakland, CA

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

Sample ID: **MW-10-C**
Lab ID: 2004-11-0503 - 1

Sampled: 11/16/2004 08:45
Extracted: 11/19/2004 02:07

Matrix: Air
QC Batch#: 2004/11/18-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	170	14	ppmv	1.00	11/19/2004 02:07	
Benzene	3.9	0.31	ppmv	1.00	11/19/2004 02:07	
Toluene	3.1	0.26	ppmv	1.00	11/19/2004 02:07	
Ethylbenzene	0.69	0.23	ppmv	1.00	11/19/2004 02:07	
Total xylenes	2.4	0.23	ppmv	1.00	11/19/2004 02:07	
Methyl tert-butyl ether (MTBE)	0.32	0.14	ppmv	1.00	11/19/2004 02:07	
Surrogate(s)						
1,2-Dichloroethane-d4	109.2	76-130	%	1.00	11/19/2004 02:07	
Toluene-d8	84.4	78-115	%	1.00	11/19/2004 02:07	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/16/2004 12:10

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/18-2B.66**

MB: 2004/11/18-2B.66-046 — Date Extracted: 11/18/2004 19:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/18/2004 19:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/18/2004 19:46	
Benzene	ND	0.5	ug/L	11/18/2004 19:46	
Toluene	ND	0.5	ug/L	11/18/2004 19:46	
Ethylbenzene	ND	0.5	ug/L	11/18/2004 19:46	
Total xylenes	ND	1.0	ug/L	11/18/2004 19:46	
Surrogates(s)					
1,2-Dichloroethane-d4	90.8	76-130	%	11/18/2004 19:46	
Toluene-d8	94.2	78-115	%	11/18/2004 19:46	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/16/2004 12:10

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/18-2B.66**

LCS 2004/11/18-2B.66-024 Extracted: 11/18/2004 Analyzed: 11/18/2004 19:24

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.6		25	90.4			65-165	20		
Benzene	25.4		25	101.6			69-129	20		
Toluene	26.3		25	105.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	406		500	81.2			76-130			
Toluene-d8	473		500	94.6			78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/16/2004 12:10

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/18-2B.66**

MS/MSD

Lab ID: 2004-11-0223 - 002

MS: 2004/11/18-2B.66-001 Extracted: 11/19/2004 Analyzed: 11/19/2004 01:00

Dilution: 1.00

MSD: 2004/11/18-2B.66-022 Extracted: 11/19/2004 Analyzed: 11/19/2004 01:22

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	21.0	ND	ND	25	84.0	0.0	--	65-165	20		M5,R1
Benzene	23.8	ND	ND	25	95.2	1.1	195.	69-129	20		M5,R1
Toluene	24.7	ND	ND	25	98.8	0.8	196.	70-130	20		M5,R1
Surrogate(s)											
1,2-Dichloroethane-d4	473	477		500	94.6	95.4		76-130			
Toluene-d8	533	451		500	106.6	90.2		78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/16/2004 12:10

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Result Flag

M5

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

R1

Analyte RPD was out of QC limits.

95745

SHELL Chain Of Custody Record

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

Shell Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

2004-11-0503

INCIDENT NUMBER (SAP#) (SEE ONLY)

9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11/16/2004

PAGE: 1 of 1

NAME AND COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC	LOG CODE:	SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA
ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608	EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:
PROJECT CONTACT (Hardcopy or PDF Report to): Karen Newton		E-MAIL:
TELEPHONE: (510) 420-3309	FAX: (510) 420-9170	E-MAIL: knewton@cambria-env.com
SAMPLER NAME (PRINT): SUBBARAO V.N.		

GLOBAL ID NO.:

CONSULTANT PROJECT NO.: 246-0932

LAB USE ONLY:

TURNAROUND TIME (BUSINESS DAYS):

☑ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY: _____

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

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

48-hour hold time for vapor samples

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ◦Total ◦STLC ◦TCLP	LUFT5 ◦Total ◦STLC ◦TCLP	CAM17 ◦Total ◦STLC ◦TCLP	Test for Disposal						
	MW-1D-C	11/16/04	08:45	VAPOR	1	X		X	X																	

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

20 a.c

TEMPERATURE ON RECEIPT C°

tedlar bag

Relinquished by: (Signature)	Received by: (Signature)	Date: 11/16/04	Time: 12:10
Relinquished by: (Signature) SUBBARAO SL-SF	Received by: (Signature)	Date: 11/16/04	Time: 15:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/1/00 Revision

D&D Graphics (714) 898-9702

SEVERN TRENT STL

Submission#: 2004-11-0545

Cambria Environmental Emeryville

December 03, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Karen Newton

Project#: 246-0932
Project: 98995749
Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Newton,

Attached is our report for your samples received on 11/17/2004 14:30
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/01/2005 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-11-0545

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10-D	11/16/2004 13:45	Air	1
MW-10-E	11/17/2004 07:15	Air	2
MW-9-A	11/17/2004 10:30	Air	3
MW-9-B	11/17/2004 14:30	Air	4

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B
Sample ID: **MW-10-D**
Sampled: 11/16/2004 13:45
Matrix: Air

Test(s): 8260B
Lab ID: 2004-11-0545 - 1
Extracted: 11/19/2004 03:15
QC Batch#: 2004/11/18-2E.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	580	14	ppmv	1.00	11/19/2004 03:15	
Benzene	13	0.31	ppmv	1.00	11/19/2004 03:15	
Toluene	13	0.26	ppmv	1.00	11/19/2004 03:15	
Ethylbenzene	2.7	0.23	ppmv	1.00	11/19/2004 03:15	
Total xylenes	9.0	0.23	ppmv	1.00	11/19/2004 03:15	
Methyl tert-butyl ether (MTBE)	1.2	0.14	ppmv	1.00	11/19/2004 03:15	
Surrogate(s)						
1,2-Dichloroethane-d4	115.1	76-130	%	1.00	11/19/2004 03:15	
Toluene-d8	86.3	78-115	%	1.00	11/19/2004 03:15	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B
Sample ID: **MW-10-E**
Sampled: 11/17/2004 07:15
Matrix: Air

Test(s): 8260B
Lab ID: 2004-11-0545 - 2
Extracted: 11/19/2004 17:56
QC Batch#: 2004/11/19-1A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1600	14	ppmv	1.00	11/19/2004 17:56	J3
Benzene	26	0.31	ppmv	1.00	11/19/2004 17:56	
Toluene	35	0.26	ppmv	1.00	11/19/2004 17:56	
Ethylbenzene	7.0	0.23	ppmv	1.00	11/19/2004 17:56	
Total xylenes	23	0.23	ppmv	1.00	11/19/2004 17:56	
Methyl tert-butyl ether (MTBE)	4.1	0.14	ppmv	1.00	11/19/2004 17:56	
Surrogate(s)						
1,2-Dichloroethane-d4	91.5	76-130	%	1.00	11/19/2004 17:56	
Toluene-d8	101.1	78-115	%	1.00	11/19/2004 17:56	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

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

Sample ID: **MW-9-A**
Lab ID: 2004-11-0545 - 3

Sampled: 11/17/2004 10:30
Extracted: 11/19/2004 03:38

Matrix: Air
QC Batch#: 2004/11/18-2B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	23	14	ppmv	1.00	11/19/2004 03:38	
Benzene	0.82	0.31	ppmv	1.00	11/19/2004 03:38	
Toluene	0.62	0.26	ppmv	1.00	11/19/2004 03:38	
Ethylbenzene	0.30	0.23	ppmv	1.00	11/19/2004 03:38	
Total xylenes	1.8	0.23	ppmv	1.00	11/19/2004 03:38	
Methyl tert-butyl ether (MTBE)	ND	0.14	ppmv	1.00	11/19/2004 03:38	
Surrogate(s)						
1,2-Dichloroethane-d4	99.4	76-130	%	1.00	11/19/2004 03:38	
Toluene-d8	90.8	78-115	%	1.00	11/19/2004 03:38	

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B
Sample ID: **MW-9-B**
Sampled: 11/17/2004 14:30
Matrix: Air

Test(s): 8260B
Lab ID: 2004-11-0545 - 4
Extracted: 11/19/2004 18:21
QC Batch#: 2004/11/19-1A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	24	14	ppmv	1.00	11/19/2004 18:21	
Benzene	0.44	0.31	ppmv	1.00	11/19/2004 18:21	
Toluene	0.31	0.26	ppmv	1.00	11/19/2004 18:21	
Ethylbenzene	ND	0.23	ppmv	1.00	11/19/2004 18:21	
Total xylenes	0.26	0.23	ppmv	1.00	11/19/2004 18:21	
Methyl tert-butyl ether (MTBE)	ND	0.14	ppmv	1.00	11/19/2004 18:21	
Surrogate(s)						
1,2-Dichloroethane-d4	107.0	76-130	%	1.00	11/19/2004 18:21	
Toluene-d8	101.7	78-115	%	1.00	11/19/2004 18:21	

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2004/11/18-2B.66-046

Water

Test(s): 8260B
QC Batch # 2004/11/18-2B.66
Date Extracted: 11/18/2004 19:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/18/2004 19:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/18/2004 19:46	
Benzene	ND	0.5	ug/L	11/18/2004 19:46	
Toluene	ND	0.5	ug/L	11/18/2004 19:46	
Ethylbenzene	ND	0.5	ug/L	11/18/2004 19:46	
Total xylenes	ND	1.0	ug/L	11/18/2004 19:46	
Surrogates(s)					
1,2-Dichloroethane-d4	90.8	76-130	%	11/18/2004 19:46	
Toluene-d8	94.2	78-115	%	11/18/2004 19:46	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/18-2E.66**

MB: 2004/11/18-2E.66-046 — Date Extracted: 11/18/2004 19:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/18/2004 19:46	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/18/2004 19:46	
Benzene	ND	0.5	ug/L	11/18/2004 19:46	
Toluene	ND	0.5	ug/L	11/18/2004 19:46	
Ethylbenzene	ND	0.5	ug/L	11/18/2004 19:46	
Total xylenes	ND	1.0	ug/L	11/18/2004 19:46	
Surrogates(s)					
1,2-Dichloroethane-d4	90.8	73-130	%	11/18/2004 19:46	
Toluene-d8	94.2	81-114	%	11/18/2004 19:46	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/19-1A.65**

MB: 2004/11/19-1A.65-014 — Date Extracted: 11/19/2004 14:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/19/2004 14:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/19/2004 14:14	
Benzene	ND	0.5	ug/L	11/19/2004 14:14	
Toluene	ND	0.5	ug/L	11/19/2004 14:14	
Ethylbenzene	ND	0.5	ug/L	11/19/2004 14:14	
Total xylenes	ND	1.0	ug/L	11/19/2004 14:14	
Surrogates(s)					
1,2-Dichloroethane-d4	107.0	76-130	%	11/19/2004 14:14	
Toluene-d8	105.0	78-115	%	11/19/2004 14:14	

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/18-2B.66**

LCS 2004/11/18-2B.66-024 Extracted: 11/18/2004 Analyzed: 11/18/2004 19:24
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.6		25	90.4			65-165	20		
Benzene	25.4		25	101.6			69-129	20		
Toluene	26.3		25	105.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	406		500	81.2			76-130			
Toluene-d8	473		500	94.6			78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/18-2E.66**

LCS 2004/11/18-2E.66-024 Extracted: 11/18/2004 Analyzed: 11/18/2004 19:24
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.6		25	90.4			65-165	20		
Benzene	25.4		25	101.6			69-129	20		
Toluene	26.3		25	105.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	406		500	81.2			73-130			
Toluene-d8	473		500	94.6			81-114			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

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Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/19-1A.65**

LCS 2004/11/19-1A.65-049 Extracted: 11/19/2004 Analyzed: 11/19/2004 13:49
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.4		25	97.6			65-165	20		
Benzene	22.5		25	90.0			69-129	20		
Toluene	25.3		25	101.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448		500	89.6			76-130			
Toluene-d8	538		500	107.6			78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/18-2B.66**

MS/MSD

Lab ID: 2004-11-0223 - 002

MS: 2004/11/18-2B.66-001 Extracted: 11/19/2004 Analyzed: 11/19/2004 01:00

Dilution: 1.00

MSD: 2004/11/18-2B.66-022 Extracted: 11/19/2004 Analyzed: 11/19/2004 01:22

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	21.0	ND	ND	25	84.0	0.0	--	65-165	20		M5,R1
Benzene	23.8	ND	ND	25	95.2	1.1	195.	69-129	20		M5,R1
Toluene	24.7	ND	ND	25	98.8	0.8	196.	70-130	20		M5,R1
Surrogate(s)											
1,2-Dichloroethane-d4	473	477		500	94.6	95.4		76-130			
Toluene-d8	533	451		500	106.6	90.2		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/18-2E.66**

MS/MSD

Lab ID: 2004-11-0223 - 002

MS: 2004/11/18-2E.66-001 Extracted: 11/19/2004

Analyzed: 11/19/2004 01:00

Dilution: 1.00

MSD: 2004/11/18-2E.66-022 Extracted: 11/19/2004

Analyzed: 11/19/2004 01:22

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	21.0	ND	ND	25	84.0	0.0	--	65-165	20		M5,R1
Benzene	23.8	ND	ND	25	95.2	1.1	195.	69-129	20		M5,R1
Toluene	24.7	ND	ND	25	98.8	0.8	196.	70-130	20		M5,R1
Surrogate(s)											
1,2-Dichloroethane-d4	473	477		500	94.6	95.4		73-130			
Toluene-d8	533	451		500	106.6	90.2		81-114			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/19-1A.65**

MS/MSD

Lab ID: 2004-11-0443 - 001

MS: 2004/11/19-1A.65-007 Extracted: 11/19/2004 Analyzed: 11/19/2004 21:07

Dilution: 1.00

MSD: 2004/11/19-1A.65-031 Extracted: 11/19/2004 Analyzed: 11/19/2004 21:31

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	14.9	11.4	ND	25	59.6	45.6	26.6	69-129	20	M5	M5,R1
Toluene	21.4	21.3	ND	25	85.6	85.2	0.5	70-130	20		
Methyl tert-butyl ether	24.6	24.4	0.893	25	94.8	94.0	0.8	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	487	291		500	97.4	58.2		76-130			S6
Toluene-d8	542	504		500	108.4	100.8		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/17/2004 14:30

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Result Flag

J3

Estimated value. The concentration exceeded the calibration of analysis.

M5

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

R1

Analyte RPD was out of QC limits.

S6

Surrogate recoveries lower than acceptance limits.
Matrix interference suspected

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

SHELL Chain Of Custody Record

95797

Shell Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

2004-11-0545

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/17/2004

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC

LOG CODE:

SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA

GLOBAL ID NO.:

ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Responsible Party or Designee):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: 246-0932

PROJECT CONTACT (Hardcopy or PDF Report to): Karen Newton

SAMPLER NAME(S) (Print): SUBBARAO V.N.

LAB USE ONLY

TELEPHONE: (510) 420-3309

FAX: (510) 420-9170

E-MAIL: knewton@cambria-env.com

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

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

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

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

48-hour hold time for vapor samples

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ○Total ○STLC ○TCLP	LUFT5 ○Total ○STLC ○TCLP	CAM17 ○Total ○STLC ○TCLP	Test for Disposal					FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-10-D	11/16/04	1345	VAPOR	1	X		X	X																tedlar bag
	MW-10-E	11/17/04	07:15	↓	1	X		X	X																
	MW-9-A	11/17/04	10:30	↓	1	X		X	X																
	MW-9-B	11/17/04	14:30	↓	1	X		X	X																

TEMPERATURE ON RECEIPT C°: 19 [initials] 11/17

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	595 MIKE · WORLD COURIER	111704	1430
595 MIKE	[signature]	111704	1700

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

10/16/00 Revision

C&D Graphics (714) 595-9792

SEVERN TRENT STL

Submission#: 2004-11-0579

Cambria Environmental Emeryville

December 07, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Karen Newton

Project#: 246-0932
Project: 98995749
Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Newton,

Attached is our report for your samples received on 11/18/2004 13:13
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/02/2005 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-11-0579

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-9-C	11/18/2004 09:30	Air	1
MW-1-A	11/18/2004 11:15	Air	2

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-9-C**	Lab ID:	2004-11-0579 - 1
Sampled:	11/18/2004 09:30	Extracted:	11/20/2004 15:43 11/21/2004 21:30
Matrix:	Air	QC Batch#:	2004/11/20-1C.64 2004/11/21-2C.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	14	ppmv	1.00	11/20/2004 15:43	
Benzene	ND	0.31	ppmv	1.00	11/20/2004 15:43	
Toluene	ND	0.26	ppmv	1.00	11/21/2004 21:30	H2
Ethylbenzene	ND	0.23	ppmv	1.00	11/20/2004 15:43	
Total xylenes	0.52	0.23	ppmv	1.00	11/20/2004 15:43	
Methyl tert-butyl ether (MTBE)	ND	0.14	ppmv	1.00	11/20/2004 15:43	
Surrogate(s)						
1,2-Dichloroethane-d4	112.2	76-130	%	1.00	11/20/2004 15:43	
1,2-Dichloroethane-d4	104.7	76-130	%	1.00	11/21/2004 21:30	H2
Toluene-d8	95.1	78-115	%	1.00	11/20/2004 15:43	
Toluene-d8	94.7	78-115	%	1.00	11/21/2004 21:30	H2

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B
Test(s): 8260B
Sample ID: **MW-1-A**
Lab ID: 2004-11-0579 - 2
Sampled: 11/18/2004 11:15
Extracted: 11/19/2004 19:33
Matrix: Air
QC Batch#: 2004/11/19-1A.65
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	2600	28	ppmv	2.00	11/19/2004 19:33	
Benzene	24	0.62	ppmv	2.00	11/19/2004 19:33	
Toluene	0.82	0.52	ppmv	2.00	11/19/2004 19:33	
Ethylbenzene	5.9	0.46	ppmv	2.00	11/19/2004 19:33	
Total xylenes	7.8	0.46	ppmv	2.00	11/19/2004 19:33	
Methyl tert-butyl ether (MTBE)	2.7	0.28	ppmv	2.00	11/19/2004 19:33	
Surrogate(s)						
1,2-Dichloroethane-d4	100.0	76-130	%	1.00	11/19/2004 19:33	
Toluene-d8	99.5	78-115	%	1.00	11/19/2004 19:33	

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

Cambria Environmental Emeryville

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Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/19-1A.65**

MB: 2004/11/19-1A.65-014 — Date Extracted: 11/19/2004 14:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/19/2004 14:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/19/2004 14:14	
Benzene	ND	0.5	ug/L	11/19/2004 14:14	
Toluene	ND	0.5	ug/L	11/19/2004 14:14	
Ethylbenzene	ND	0.5	ug/L	11/19/2004 14:14	
Total xylenes	ND	1.0	ug/L	11/19/2004 14:14	
Surrogates(s)					
1,2-Dichloroethane-d4	107.0	76-130	%	11/19/2004 14:14	
Toluene-d8	105.0	78-115	%	11/19/2004 14:14	

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

Cambria Environmental Emeryville
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Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

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

Method Blank
Water
QC Batch # 2004/11/20-1C.64

MB: 2004/11/20-1C.64-039
Date Extracted: 11/20/2004 07:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/20/2004 07:39	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/20/2004 07:39	
Benzene	ND	0.5	ug/L	11/20/2004 07:39	
Toluene	ND	0.5	ug/L	11/20/2004 07:39	
Ethylbenzene	ND	0.5	ug/L	11/20/2004 07:39	
Total xylenes	ND	1.0	ug/L	11/20/2004 07:39	
Surrogates(s)					
1,2-Dichloroethane-d4	106.2	76-130	%	11/20/2004 07:39	
Toluene-d8	104.0	78-115	%	11/20/2004 07:39	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/21-2C.68**

MB: 2004/11/21-2C.68-025 — Date Extracted: 11/21/2004 16:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/21/2004 16:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/21/2004 16:25	
Benzene	ND	0.5	ug/L	11/21/2004 16:25	
Toluene	ND	0.5	ug/L	11/21/2004 16:25	
Ethylbenzene	ND	0.5	ug/L	11/21/2004 16:25	
Total xylenes	ND	1.0	ug/L	11/21/2004 16:25	
Surrogates(s)					
1,2-Dichloroethane-d4	100.0	76-130	%	11/21/2004 16:25	
Toluene-d8	94.0	78-115	%	11/21/2004 16:25	

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/19-1A.65**

LCS 2004/11/19-1A.65-049 Extracted: 11/19/2004 Analyzed: 11/19/2004 13:49

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.4		25	97.6			65-165	20		
Benzene	22.5		25	90.0			69-129	20		
Toluene	25.3		25	101.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448		500	89.6			76-130			
Toluene-d8	538		500	107.6			78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/20-1C.64**

LCS 2004/11/20-1C.64-040 Extracted: 11/20/2004 Analyzed: 11/20/2004 07:17
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	29.4		25	117.6			65-165	20		
Benzene	27.9		25	111.6			69-129	20		
Toluene	29.5		25	118.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	497		500	99.4			76-130			
Toluene-d8	516		500	103.2			78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/21-2C.68**

LCS 2004/11/21-2C.68-007 Extracted: 11/21/2004 Analyzed: 11/21/2004 16:07

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.8		25	99.2			65-165	20		
Benzene	22.4		25	89.6			69-129	20		
Toluene	23.2		25	92.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448		500	89.6			76-130			
Toluene-d8	476		500	95.2			78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/19-1A.65**

MS/MSD

Lab ID: 2004-11-0443 - 001

MS: 2004/11/19-1A.65-007 Extracted: 11/19/2004 Analyzed: 11/19/2004 21:07

Dilution: 1.00

MSD: 2004/11/19-1A.65-031 Extracted: 11/19/2004 Analyzed: 11/19/2004 21:31

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	14.9	11.4	ND	25	59.6	45.6	26.6	69-129	20	M5	M5,R1
Toluene	21.4	21.3	ND	25	85.6	85.2	0.5	70-130	20		
Methyl tert-butyl ether	24.6	24.4	0.893	25	94.8	94.0	0.8	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	487	291		500	97.4	58.2		76-130			S6
Toluene-d8	542	504		500	108.4	100.8		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/20-1C.64**

MS/MSD

Lab ID: 2004-11-0274 - 004

MS: 2004/11/20-1C.64-044 Extracted: 11/20/2004 Analyzed: 11/20/2004 12:44

Dilution: 1.00

MSD: 2004/11/20-1C.64-007 Extracted: 11/20/2004 Analyzed: 11/20/2004 13:07

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	26.9	28.3	1.66	25	101.0	113.2	11.4	69-129	20		
Toluene	26.8	27.2	ND	25	107.2	108.8	1.5	70-130	20		
Methyl tert-butyl ether	30.9	29.1	2.33	25	114.3	116.4	1.8	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	497	508		500	99.5	101.6		76-130			
Toluene-d8	509	506		500	101.8	101.2		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/21-2C.68**

MS/MSD

Lab ID: 2004-11-0430 - 004

MS: 2004/11/21-2C.68-008 Extracted: 11/21/2004 Analyzed: 11/21/2004 18:08

Dilution: 1.00

MSD: 2004/11/21-2C.68-026 Extracted: 11/21/2004 Analyzed: 11/21/2004 18:26

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	23.1	28.2	ND	25	92.4	112.8	19.9	65-165	20		
Benzene	19.9	23.6	ND	25	79.6	94.4	17.0	69-129	20		
Toluene	20.4	23.6	ND	25	81.6	94.4	14.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	479	492		500	95.7	98.4		76-130			
Toluene-d8	496	481		500	99.2	96.2		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/18/2004 13:13

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Analysis Flag

L2

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

Result Flag

H2

Analyzed out of holding time.

M5

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

R1

Analyte RPD was out of QC limits.

S6

Surrogate recoveries lower than acceptance limits. Matrix interference suspected

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

SHELL Chain Of Custody Record

95838

Shell Project Manager to be invoiced:

- ☑ SCIENCE & ENGINEERING
- ☐ TECHNICAL SERVICES
- ☐ CRMT HOUSTON

Karen Petryna

2004-11-0579

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/18/2004

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC

LOG CODE:

SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA

GLOBAL ID NO.:

ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Responsible Party or Designee):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: 246-0932

PROJECT CONTACT (Hardcopy or PDF Report to): Karen Newton

SAMPLER NAME(S) (Print): SUBBARAO V.N.

TELEPHONE: (510) 420-3309

FAX: (510) 420-9170

E-MAIL: knewton@cambria-env.com

LAB USE ONLY:

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

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: ____

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

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

48-hour hold time for vapor samples

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead □Total □STLC □TCLP	LUFT5 □Total □STLC □TCLP	CAM17 □Total □STLC □TCLP	Test for Disposal						FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-9-C	11/18/04	09:30	VAPOR	1	X		X	X																	TEMPERATURE ON RECEIPT C°: 18° tedlar bag
	MW-1-A	11/18/04	11:15	VAPOR	1	X		X	X																	

Relinquished by (Signature)	Received by (Signature)	Date	Time
[signature]	SOS MIKE - WEXCO COURIER	11/18/04	1313
SOS MIKE	Joan Mullen	11/18/04	1415

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

10/16/02 Revision

SEVERN TRENT STL

Submission#: 2004-11-0635

Cambria Environmental Emeryville

December 08, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Karen Newton

Project#: 246-0932
Project: 98995749
Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Newton,

Attached is our report for your samples received on 11/19/2004 12:55
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/03/2005 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-11-0635

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1-B	11/18/2004 15:00	Air	1
MW-1-C	11/19/2004 09:00	Air	2
MW-1-D	11/19/2004 10:50	Air	3
MW-10-F	11/19/2004 12:55	Air	4

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

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

Sample ID: **MW-1-B**
Lab ID: 2004-11-0635 - 1

Sampled: 11/18/2004 15:00
Extracted: 11/20/2004 17:29

Matrix: Air
QC Batch#: 2004/11/20-2A.62

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1000	140	ppmv	10.00	11/20/2004 17:29	
Benzene	19	3.1	ppmv	10.00	11/20/2004 17:29	
Toluene	9.3	2.6	ppmv	10.00	11/20/2004 17:29	
Ethylbenzene	7.6	2.3	ppmv	10.00	11/20/2004 17:29	
Total xylenes	15	2.3	ppmv	10.00	11/20/2004 17:29	
Methyl tert-butyl ether (MTBE)	ND	1.4	ppmv	10.00	11/20/2004 17:29	
Surrogate(s)						
1,2-Dichloroethane-d4	108.3	76-130	%	10.00	11/20/2004 17:29	
Toluene-d8	104.1	78-115	%	10.00	11/20/2004 17:29	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-1-C**	Lab ID:	2004-11-0635 - 2
Sampled:	11/19/2004 09:00	Extracted:	11/20/2004 18:59
Matrix:	Air	QC Batch#:	2004/11/20-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1100	14	ppmv	1.00	11/20/2004 18:59	
Benzene	9.7	0.31	ppmv	1.00	11/20/2004 18:59	
Toluene	1.8	0.26	ppmv	1.00	11/20/2004 18:59	
Ethylbenzene	9.0	0.23	ppmv	1.00	11/20/2004 18:59	
Total xylenes	21	0.23	ppmv	1.00	11/20/2004 18:59	
Methyl tert-butyl ether (MTBE)	1.5	0.14	ppmv	1.00	11/20/2004 18:59	
Surrogate(s)						
1,2-Dichloroethane-d4	109.2	76-130	%	1.00	11/20/2004 18:59	
Toluene-d8	89.9	78-115	%	1.00	11/20/2004 18:59	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-1-D**	Lab ID:	2004-11-0635 - 3
Sampled:	11/19/2004 10:50	Extracted:	11/20/2004 18:14
Matrix:	Air	QC Batch#:	2004/11/20-2A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	900	14	ppmv	1.00	11/20/2004 18:14	
Benzene	9.3	0.31	ppmv	1.00	11/20/2004 18:14	
Toluene	2.0	0.26	ppmv	1.00	11/20/2004 18:14	
Ethylbenzene	7.6	0.23	ppmv	1.00	11/20/2004 18:14	
Total xylenes	19	0.23	ppmv	1.00	11/20/2004 18:14	
Methyl tert-butyl ether (MTBE)	1.5	0.14	ppmv	1.00	11/20/2004 18:14	
Surrogate(s)						
1,2-Dichloroethane-d4	109.4	76-130	%	1.00	11/20/2004 18:14	
Toluene-d8	109.7	78-115	%	1.00	11/20/2004 18:14	

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B
Test(s): 8260B
Sample ID: **MW-10-F**
Lab ID: 2004-11-0635 - 4
Sampled: 11/19/2004 12:55
Extracted: 11/20/2004 19:21
Matrix: Air
QC Batch#: 2004/11/20-2A.62
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	2600	140	ppmv	10.00	11/20/2004 19:21	
Benzene	47	3.1	ppmv	10.00	11/20/2004 19:21	
Toluene	56	2.6	ppmv	10.00	11/20/2004 19:21	
Ethylbenzene	12	2.3	ppmv	10.00	11/20/2004 19:21	
Total xylenes	37	2.3	ppmv	10.00	11/20/2004 19:21	
Methyl tert-butyl ether (MTBE)	17	1.4	ppmv	10.00	11/20/2004 19:21	
Surrogate(s)						
1,2-Dichloroethane-d4	104.1	76-130	%	10.00	11/20/2004 19:21	
Toluene-d8	104.1	78-115	%	10.00	11/20/2004 19:21	

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/20-2A.62**

MB: 2004/11/20-2A.62-002 — Date Extracted: 11/20/2004 17:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/20/2004 17:02	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/20/2004 17:02	
Benzene	ND	0.5	ug/L	11/20/2004 17:02	
Toluene	ND	0.5	ug/L	11/20/2004 17:02	
Ethylbenzene	ND	0.5	ug/L	11/20/2004 17:02	
Total xylenes	ND	1.0	ug/L	11/20/2004 17:02	
Surrogates(s)					
1,2-Dichloroethane-d4	109.8	76-130	%	11/20/2004 17:02	
Toluene-d8	84.6	78-115	%	11/20/2004 17:02	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/20-2A.62**

LCS 2004/11/20-2A.62-040 Extracted: 11/20/2004 Analyzed: 11/20/2004 16:40

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.6		25	102.4			65-165	20		
Benzene	24.0		25	96.0			69-129	20		
Toluene	27.8		25	111.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	483		500	96.6			76-130			
Toluene-d8	545		500	109.0			78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/20-2A.62**

MS/MSD

Lab ID: 2004-11-0341 - 002

MS: 2004/11/20-2A.62-051 Extracted: 11/20/2004 Analyzed: 11/20/2004 23:51

Dilution: 1.00

MSD: 2004/11/20-2A.62-013 Extracted: 11/21/2004 Analyzed: 11/21/2004 00:13

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	21.9	25.2	ND	25	87.6	100.8	14.0	69-129	20		
Toluene	25.1	29.8	3.56	25	86.2	105.0	19.7	70-130	20		
Methyl tert-butyl ether	29.0	39.6	8.33	25	82.7	125.1	40.8	65-165	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	481	480		500	96.2	96.0		76-130			
Toluene-d8	546	532		500	109.2	106.4		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/19/2004 12:55

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Analysis Flag

L2

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

Result Flag

R1

Analyte RPD was out of QC limits.

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

SHELL Chain Of Custody Record

95891

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

2004-11-0635

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/18/2004

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC

LOG CODE:

SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA

GLOBAL ID NO.:

ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Responsible Party or Designee):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: 246-0932

PROJECT CONTACT (Hardcopy or PDF Report to): Karen Newton

TELEPHONE: (510) 420-3309

FAX: (510) 420-9170

E-MAIL: knewton@cambria-env.com

SAMPLER NAME(S) (Print): SUBBARAO V.N. / MARK JOHNSON

LAB USE ONLY:

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

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

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

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

48-hour hold time for vapor samples

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ○Total ○STLC ○TCLP	LUFT5 ○Total ○STLC ○TCLP	CAM17 ○Total ○STLC ○TCLP	Test for Disposal					FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
																									TEMPERATURE ON RECEIPT C° 18
	MW-1-B	11/18/04	15:00	VAPOR	1	X		X	X																tedlar bag
	MW-1-C	11/19/04	9:00	VAPOR	1	X		X	X																
	MW-1 D	11/19/04	10:50	VAPOR	1	X		X	X																
	MW-10 F	11/19/04	12:55	VAPOR	1	X		X	X																

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Mark Johnson	SAS MIKE - WORLD COURIER	11/19/04	1255
SAS MIKE	[signature]	11/19/04	17:35

SEVERN TRENT STL

Submission#: 2004-11-0678

Cambria Environmental Emeryville

December 08, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Karen Newton

Project#: 246-0932
Project: 98995749
Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Newton,

Attached is our report for your samples received on 11/22/2004 11:32
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/06/2005 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-11-0678

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/22/2004 11:32

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10-G	11/22/2004 07:45	Air	1

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/22/2004 11:32

Site: 285 Hegenberger Rd., Oakland, CA

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

Sample ID: **MW-10-G**
Lab ID: 2004-11-0678 - 1

Sampled: 11/22/2004 07:45
Extracted: 11/25/2004 09:30

Matrix: Air
QC Batch#: 2004/11/25-1C.64

Analysis Flag: H1 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	8100	140	ppmv	10.00	11/25/2004 09:30	
Benzene	110	3.1	ppmv	10.00	11/25/2004 09:30	
Toluene	150	2.6	ppmv	10.00	11/25/2004 09:30	
Ethylbenzene	24	2.3	ppmv	10.00	11/25/2004 09:30	
Total xylenes	74	2.3	ppmv	10.00	11/25/2004 09:30	
Methyl tert-butyl ether (MTBE)	22	1.4	ppmv	10.00	11/25/2004 09:30	
Surrogate(s)						
1,2-Dichloroethane-d4	112.3	76-130	%	10.00	11/25/2004 09:30	
Toluene-d8	105.6	78-115	%	10.00	11/25/2004 09:30	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/22/2004 11:32

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/25-1C.64**

MB: 2004/11/25-1C.64-048 — Date Extracted: 11/25/2004 07:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/25/2004 07:48	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/25/2004 07:48	
Benzene	ND	0.5	ug/L	11/25/2004 07:48	
Toluene	ND	0.5	ug/L	11/25/2004 07:48	
Ethylbenzene	ND	0.5	ug/L	11/25/2004 07:48	
Total xylenes	ND	1.0	ug/L	11/25/2004 07:48	
Surrogates(s)					
1,2-Dichloroethane-d4	107.2	76-130	%	11/25/2004 07:48	
Toluene-d8	110.2	78-115	%	11/25/2004 07:48	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/22/2004 11:32

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/25-1C.64**

LCS 2004/11/25-1C.64-025 Extracted: 11/25/2004 Analyzed: 11/25/2004 07:25
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.0		25	88.0			65-165	20		
Benzene	21.4		25	85.6			69-129	20		
Toluene	25.4		25	101.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	540		500	108.0			76-130			
Toluene-d8	539		500	107.8			78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/22/2004 11:32

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/25-1C.64**

MS/MSD

Lab ID: 2004-11-0465 - 003

MS: 2004/11/25-1C.64-059 Extracted: 11/25/2004 Analyzed: 11/25/2004 10:59

Dilution: 1.00

MSD: 2004/11/25-1C.64-022 Extracted: 11/25/2004 Analyzed: 11/25/2004 11:22

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	25.3	25.7	ND	25	101.2	102.8	1.6	69-129	20		
Toluene	29.8	29.2	ND	25	119.2	116.8	2.0	70-130	20		
Methyl tert-butyl ether	29.8	31.1	ND	25	119.2	124.4	4.3	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	586	607		500	117.2	121.4		76-130			
Toluene-d8	548	541		500	109.6	108.2		78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/22/2004 11:32

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Analysis Flag

H1

Extracted out of holding time.

SHELL Chain Of Custody Record

95923

STL-San Francisco

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

Shell Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

2004-11-0678

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 9

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/22/04

PAGE: ____ of ____

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC

LOG CODE:

SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA

GLOBAL ID NO.:

ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Responsible Party or Designee):

PHONE NO.:

E-MAIL:

CONSULTANT PROJECT NO.: 246-0932

PROJECT CONTACT (Hardcopy or PDF Report to): Karen Newton

SAMPLER NAME(S) (Print): Mark Johnson

LAB USE ONLY

TELEPHONE: (510) 420-3309

FAX: (510) 420-9170

E-MAIL: knewton@cambria-env.com

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

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY: ____

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

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

48-hour hold time for vapor samples

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ○Total ○STLC ○TCLP	LUFT5 ○Total ○STLC ○TCLP	CAM17 ○Total ○STLC ○TCLP	Test for Disposal						FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT C° 16
	MW-10-G	11/22	7:45	VAPOR	1	X		X	X																	tedlar bag	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Mark Johnson	[signature]	11/22/04	11:32
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/16/00 Revision

C&D Graphic (714) 996-5702

SEVERN TRENT STL

Submission#: 2004-11-0721

Cambria Environmental Emeryville

December 08, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Karen Newton

Project#: 246-0932
Project: 98995749
Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Newton,

Attached is our report for your samples received on 11/23/2004 13:30
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/07/2005 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-11-0721

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10-G	11/23/2004 08:30	Air	1
MW-10-H	11/23/2004 13:20	Air	2

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

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

Sample ID: **MW-10-G**
Lab ID: 2004-11-0721 - 1

Sampled: 11/23/2004 08:30
Extracted: 11/26/2004 07:54

Matrix: Air
QC Batch#: 2004/11/26-1A.64

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	30000	700	ppmv	50.00	11/26/2004 07:54	
Benzene	460	16	ppmv	50.00	11/26/2004 07:54	
Toluene	640	13	ppmv	50.00	11/26/2004 07:54	
Ethylbenzene	130	12	ppmv	50.00	11/26/2004 07:54	
Total xylenes	400	12	ppmv	50.00	11/26/2004 07:54	
Methyl tert-butyl ether (MTBE)	100	7.0	ppmv	50.00	11/26/2004 07:54	
Surrogate(s)						
1,2-Dichloroethane-d4	117.7	76-130	%	50.00	11/26/2004 07:54	
Toluene-d8	106.5	78-115	%	50.00	11/26/2004 07:54	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

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

Sample ID: **MW-10-H**
Lab ID: 2004-11-0721 - 2

Sampled: 11/23/2004 13:20
Extracted: 11/26/2004 10:09

Matrix: Air
QC Batch#: 2004/11/26-1C.66

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	26000	700	ppmv	50.00	11/26/2004 10:09	
Benzene	400	16	ppmv	50.00	11/26/2004 10:09	
Toluene	510	13	ppmv	50.00	11/26/2004 10:09	
Ethylbenzene	99	12	ppmv	50.00	11/26/2004 10:09	
Total xylenes	280	12	ppmv	50.00	11/26/2004 10:09	
Methyl tert-butyl ether (MTBE)	82	7.0	ppmv	50.00	11/26/2004 10:09	
Surrogate(s)						
1,2-Dichloroethane-d4	98.1	76-130	%	50.00	11/26/2004 10:09	
Toluene-d8	90.7	78-115	%	50.00	11/26/2004 10:09	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2004/11/26-1A.64

MB: 2004/11/26-1A.64-054

Date Extracted: 11/26/2004 07:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/26/2004	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/26/2004	
Benzene	ND	0.5	ug/L	11/26/2004	
Toluene	ND	0.5	ug/L	11/26/2004	
Ethylbenzene	ND	0.5	ug/L	11/26/2004	
Total xylenes	ND	1.0	ug/L	11/26/2004	
Surrogates(s)					
1,2-Dichloroethane-d4	112.4	76-130	%	11/26/2004	
Toluene-d8	111.6	78-115	%	11/26/2004	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/26-1C.66**

MB: 2004/11/26-1C.66-025 — Date Extracted: 11/26/2004 07:25

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/26/2004 07:25	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/26/2004 07:25	
Benzene	ND	0.5	ug/L	11/26/2004 07:25	
Toluene	ND	0.5	ug/L	11/26/2004 07:25	
Ethylbenzene	ND	0.5	ug/L	11/26/2004 07:25	
Total xylenes	ND	1.0	ug/L	11/26/2004 07:25	
Surrogates(s)					
1,2-Dichloroethane-d4	95.8	76-130	%	11/26/2004 07:25	
Toluene-d8	95.0	78-115	%	11/26/2004 07:25	

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/26-1A.64**

LCS 2004/11/26-1A.64-002 Extracted: 11/26/2004 Analyzed: 11/26/2004 07:02

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	28.4		25	113.6			65-165	20		
Benzene	26.4		25	105.6			69-129	20		
Toluene	29.9		25	119.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	562		500	112.4			76-130			
Toluene-d8	538		500	107.6			78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/26-1C.66**

LCS 2004/11/26-1C.66-002 Extracted: 11/26/2004 Analyzed: 11/26/2004 07:02

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.7		25	94.8			65-165	20		
Benzene	25.0		25	100.0			69-129	20		
Toluene	25.4		25	101.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	477		500	95.4			76-130			
Toluene-d8	457		500	91.4			78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/26-1A.64**

MS/MSD

Lab ID: 2004-11-0464 - 003

MS: 2004/11/26-1A.64-031 Extracted: 11/26/2004 Analyzed: 11/26/2004 10:31
Dilution: 1.00

MSD: 2004/11/26-1A.64-053 Extracted: 11/26/2004 Analyzed: 11/26/2004 10:53
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	33.6	31.2	ND	25	134.4	124.8	7.4	65-165	20		
Benzene	29.3	26.5	ND	25	117.2	106.0	10.0	69-129	20		
Toluene	34.7	31.4	ND	25	138.8	125.6	10.0	70-130	20	M4	
Surrogate(s)											
1,2-Dichloroethane-d4	595	605		500	119.0	121.0		76-130			
Toluene-d8	555	557		500	111.0	111.4		78-115			

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/26-1C.66**

MS/MSD

Lab ID: 2004-11-0499 - 004

MS: 2004/11/26-1C.66-001 Extracted: 11/26/2004

Analyzed: 11/26/2004 09:01

Dilution: 1.00

MSD: 2004/11/26-1C.66-024 Extracted: 11/26/2004

Analyzed: 11/26/2004 09:24

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	26.2	30.2	ND	25	104.8	120.8	14.2	65-165	20		
Benzene	25.4	29.1	ND	25	101.6	116.4	13.6	69-129	20		
Toluene	27.0	31.4	ND	25	108.0	125.6	15.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	512	504		500	102.4	100.8		76-130			
Toluene-d8	495	531		500	99.0	106.2		78-115			

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0932
98995749

Received: 11/23/2004 13:30

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Analysis Flag

L2

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

Result Flag

M4

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

SHELL Chain Of Custody Record

95484

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

Shell Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ GRME HOUSTON

2004-11-0721

INCIDENT NUMBER (S&E ONLY): 98995749

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/23/2004

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC

LOG CODE:

SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA

GLOBAL ID NO.:

ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Responsible Party or Consultant):

PO/SO NO.:

CRAM:

CONSULTANT PROJECT NO.: 246-0932

PROJECT CONTACT (Hardcopy or PDF Report to): Karen Newton

SAMPLER NAME(S) PRINT: SUBBARAO V.N.

LAB USE ONLY

TELEPHONE: (510) 420-3309 FAX: (510) 420-9170 E-MAIL: knewton@cambria-env.com

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

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY: _____

GCAMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

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

48-hour hold time for vapor samples

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ☐ Total ☐ STLC ☐ TCLP	LUFT 5 ☐ Total ☐ STLC ☐ TCLP	CAM17 ☐ Total ☐ STLC ☐ TCLP	Test for Disposal
	MW-10-G	11/23/04	0830	VAPOR	1	X		X	X											
	MW-10-M	11/23/04	1320	VAPOR	1	X		X	X											

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

20 at C

TEMPERATURE ON RECEIPT C°

tedlar bag

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature] to CAMBRIA	[signature]	11/23/2004	13:30
[signature]	[signature]	11-23-04	1700

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

10/1500 Revision

CAD Graphic (714) 895-0702

SEVERN TRENT STL

Submission#: 2004-11-0770

Cambria Environmental Emeryville

December 09, 2004

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Attn.: Karen Newton

Project#: 246-0734
Project: 98995749
Site: 285 Hegenberger Rd., Oakland, CA

Dear Ms. Newton,

Attached is our report for your samples received on 11/24/2004 13:35
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/08/2005 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

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2004-11-0770

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

Cambria Environmental Emeryville
Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-10-I	11/24/2004 09:00	Air	1
MW-10-J	11/24/2004 13:30	Air	2

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

Cambria Environmental Emeryville

Attn.: Karen Newton

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Prep(s): 5030B
Test(s): 8260B
Sample ID: **MW-10-I**
Lab ID: 2004-11-0770 - 1
Sampled: 11/24/2004 09:00
Extracted: 11/27/2004 01:25
Matrix: Air
QC Batch#: 2004/11/26-1C.65
Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	21000	280	ppmv	20.00	11/27/2004 01:25	
Benzene	350	6.2	ppmv	20.00	11/27/2004 01:25	
Toluene	400	5.2	ppmv	20.00	11/27/2004 01:25	
Ethylbenzene	72	4.6	ppmv	20.00	11/27/2004 01:25	
Total xylenes	220	4.6	ppmv	20.00	11/27/2004 01:25	
Methyl tert-butyl ether (MTBE)	74	2.8	ppmv	20.00	11/27/2004 01:25	
Surrogate(s)						
1,2-Dichloroethane-d4	94.4	76-130	%	20.00	11/27/2004 01:25	
Toluene-d8	94.4	78-115	%	20.00	11/27/2004 01:25	

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

Cambria Environmental Emeryville

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Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

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

Sample ID: **MW-10-J**
Lab ID: 2004-11-0770 - 2

Sampled: 11/24/2004 13:30
Extracted: 11/27/2004 09:47

Matrix: Air
QC Batch#: 2004/11/27-1E.64

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	59000	1400	ppmv	100.00	11/27/2004 09:47	
Benzene	660	31	ppmv	100.00	11/27/2004 09:47	
Toluene	930	26	ppmv	100.00	11/27/2004 09:47	
Ethylbenzene	190	23	ppmv	100.00	11/27/2004 09:47	
Total xylenes	570	23	ppmv	100.00	11/27/2004 09:47	
Methyl tert-butyl ether (MTBE)	140	14	ppmv	100.00	11/27/2004 09:47	
Surrogate(s)						
1,2-Dichloroethane-d4	115.7	76-130	%	100.00	11/27/2004 09:47	
Toluene-d8	103.8	78-115	%	100.00	11/27/2004 09:47	

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

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Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/26-1C.65**

MB: 2004/11/26-1C.65-008 — Date Extracted: 11/26/2004 18:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/26/2004 18:08	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/26/2004 18:08	
Benzene	ND	0.5	ug/L	11/26/2004 18:08	
Toluene	ND	0.5	ug/L	11/26/2004 18:08	
Ethylbenzene	ND	0.5	ug/L	11/26/2004 18:08	
Total xylenes	ND	1.0	ug/L	11/26/2004 18:08	
Surrogates(s)					
1,2-Dichloroethane-d4	92.2	76-130	%	11/26/2004 18:08	
Toluene-d8	99.1	78-115	%	11/26/2004 18:08	

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

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/11/27-1E.64**

MB: 2004/11/27-1E.64-051 — Date Extracted: 11/27/2004 07:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	11/27/2004 07:51	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/27/2004 07:51	
Benzene	ND	0.5	ug/L	11/27/2004 07:51	
Toluene	ND	0.5	ug/L	11/27/2004 07:51	
Ethylbenzene	ND	0.5	ug/L	11/27/2004 07:51	
Total xylenes	ND	1.0	ug/L	11/27/2004 07:51	
Surrogates(s)					
1,2-Dichloroethane-d4	111.6	76-130	%	11/27/2004 07:51	
Toluene-d8	109.2	78-115	%	11/27/2004 07:51	

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

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/11/26-1C.65**

LCS 2004/11/26-1C.65-019 Extracted: 11/26/2004 Analyzed: 11/26/2004 16:19

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.3		25	101.2			65-165	20		
Benzene	26.7		25	106.8			69-129	20		
Toluene	26.3		25	105.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	412		500	82.4			76-130			
Toluene-d8	516		500	103.2			78-115			

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

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/11/27-1E.64

LCS 2004/11/27-1E.64-028

Extracted: 11/27/2004

Analyzed: 11/27/2004 07:28

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.2		25	92.8			65-165	20		
Benzene	23.5		25	94.0			69-129	20		
Toluene	26.1		25	104.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	540		500	108.0			76-130			
Toluene-d8	550		500	110.0			78-115			

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

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/26-1C.65**

MS/MSD

Lab ID: 2004-11-0479 - 004

MS: 2004/11/26-1C.65-038 Extracted: 11/26/2004 Analyzed: 11/26/2004 22:38

Dilution: 1.00

MSD: 2004/11/26-1C.65-002 Extracted: 11/26/2004 Analyzed: 11/26/2004 23:02

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	29.8	30.2	ND	25	119.2	120.8	1.3	69-129	20		
Toluene	30.9	29.5	ND	25	123.6	118.0	4.6	70-130	20		
Methyl tert-butyl ether	38.7	38.7	7.08	25	126.5	126.5	0.0	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	406	413		500	81.1	82.6		76-130			
Toluene-d8	529	500		500	105.7	100.0		78-115			

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

Cambria Environmental Emeryville
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Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/11/27-1E.64**

MS/MSD

Lab ID: 2004-11-0521 - 001

MS: 2004/11/27-1E.64-047 Extracted: 11/27/2004 Analyzed: 11/27/2004 12:47

Dilution: 1.00

MSD: 2004/11/27-1E.64-009 Extracted: 11/27/2004 Analyzed: 11/27/2004 13:09

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	28.2	20.2	ND	25	112.8	80.8	33.1	65-165	20		R4
Benzene	23.2	19.1	ND	25	92.8	76.4	19.4	69-129	20		
Toluene	28.0	21.1	ND	25	112.0	84.4	28.1	70-130	20		R4
Surrogate(s)											
1,2-Dichloroethane-d4	603	572		500	120.6	114.4		76-130			
Toluene-d8	562	537		500	112.4	107.4		78-115			

SEVERN TRENT STL

Submission: 2004-11-0770

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

Cambria Environmental Emeryville
Attn.: Karen Newton

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Emeryville, CA 94608
Phone: (510) 420-3309 Fax: (510) 420-9170

Project: 246-0734
98995749

Received: 11/24/2004 13:35

Site: 285 Hegenberger Rd., Oakland, CA

Legend and Notes

Analysis Flag

L2

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

Result Flag

R4

RPD exceeded method control limit; % recoveries within limits.

SHELL Chain Of Custody Record

96040

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

Shell Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

2004-11-0770

INCIDENT NUMBER (S&E ONLY): 98995749

SAP/C CRMT NUMBER (TS/CB/MT):

DATE: 11/24/2004

PAGE: 1 of 1

COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC	SITE ADDRESS (Street and City): 285 Hegenberger Rd., Oakland, CA
ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608	GLOBAL ID NO.
PROJECT CONTACT (Hardcopy or PDF Report to): Karen Newton	CONSULTANT PROJECT NO.: 246-0754 ~~245-0992~~
TELEPHONE: (510) 420-3309 FAX: (510) 420-9170 E-MAIL: knewton@cambria-env.com	SAMPLER NAME(S) (Print): SUBBARAO V.N.

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

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

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

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

48-hour hold time for vapor samples

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead ☐Total ☐STLC ☐TCLP	LUFT5 ☐Total ☐STLC ☐TCLP	CAM17 ☐Total ☐STLC ☐TCLP	Test for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-10-I	11/24/04	09:20	VAPOR	1	X		X	X												tedlar bag
	MW-10-J	11/24/04	13:30	VAPOR	1	X		X	X												TEDLAR BAG

TEMPERATURE ON RECEIPT C°: 20°C

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		11/24/2004	13:55
Relinquished by: (Signature)	Received by: (Signature) Denise Harrington/STL-SF	Date: 11/24/04	Time: 1715
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/16/00 Revision

CAD Graphic (714) 895-5702