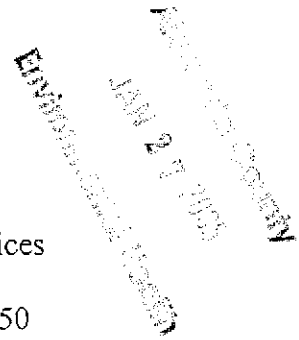
desert petroleum inc.

RO-429



Mr. Robert Schultz
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6719
FACSMILE (510) 337-9335

January 7, 2005

RE: The following report documents the fourth quarter 2004 sampling at DP793, 4035 Park Blvd., Oakland, California 94602.

Dear Mr. Schultz:

I have reviewed the enclosed report that I contracted Western Geo-Engineers to prepare.

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

Sincerely,

William Thompson, Desert Petroleum, Inc.

1/19/05
date

FOURTH QUARTER 2004
GROUNDWATER SAMPLING REPORT/UPDATE STATUS
WITH
WASTEWATER DISCHARGE REPORT (APPENDIX E)

AT

FORMER DESERT SITE DP 793
4035 PARK BLVD.
OAKLAND, CA.

FOR

DESERT PETROLEUM

January 3, 2004

BY

-WEGE-
WESTERN GEO-ENGINEERS
1386 E. BEAMER STREET
WOODLAND, CALIFORNIA 95776
(530) 668-5300

TABLE OF CONTENTS

List of Tables

List of Figures

List of Appendices

Mr. Bill Thompson
Desert Petroleum
P.O. Box 1601
Oxnard, California 93032
(805) 644-6784 FAX (805) 654-0720

January 3, 2005

Dear Mr. Thompson:

The following report documents the fourth quarter 2004 sampling at DP793, 4035 Park Blvd., Oakland, California.

1.0 SITE LOCATION AND IDENTIFICATION NUMBERS

Former Desert Petroleum #793 is a non-active service station (USTs and associated piping removed June 23, 1994), located on the northwest corner of the intersection of Park Boulevard and Hampel Street at 4035 Park Blvd., Oakland, California (Figure 1). The site is located in projected section 32; T1S; R3W; MDB&M at an approximate elevation of 210 feet above mean sea level (Figure 2).

East Bay Municipal Utility District - Sewer Discharge Permit #50435501
Alameda County Local Oversite STID 1248
San Francisco Bay Regional Board (Region 2) Case # 01-0170
Facility/Leak Site ID# T0600100158

2.0 SITE INVESTIGATION/REMEDIATION CHRONOLOGY

November 30, 1989	Alameda County Health Department (Mr. Ariu Levi) notified Desert Petroleum that gasoline was trickling into a sewer on Brighton Avenue through a crack in the bottom of the sewer access. Desert Petroleum's area manager sent to site to reconstruct and audit tank inventories and sales records. The audit indicated overages on all tanks.
December 1, 1989	Desert Petroleum contacted the station tenant, Mr. Jason Gopad, and advised him to test the fuel tanks and associated piping.
December 5, 1989	The retail fueling facility was closed.
December 6, 1989	Mr. Gopad had the underground storage tanks tested. The test results were inconclusive.
December 7, 1989	All fuel was removed from the underground storage tanks. The product lines were tested by Walton Engineering. The regular leaded and super unleaded lines passed. The regular unleaded line failed. A 1/2 inch hole in the 2 inch unleaded supply line was located beneath the eastern pump island. An ultrasound investigation was conducted to determine the location of the onsite sewer line. An onsite soil gas survey was conducted and indicated

	contamination associated with the pump islands and the sewer line on the western edge of the property.
December 8, 1989	Desert Petroleum submitted Unauthorized Release Report, drilling permits for site assessment obtained from Alameda County Flood Control and Water Conservation District, Zone 7, Underground Service Alert was notified.
December 11, 1989	Onsite drilling/sampling and well installation initiated. Sample borings RS-1, RS-2, RS-3, RS-5 and RS-4. Groundwater monitoring wells installed into borings RS-1, RS-5, and RS-6. Vapor extraction well installed into boring RS-2.
December 12, 1989	Encroachment permit secured from the City of Oakland for assessment work in Brighton Avenue. Sample boring RS-4 drilled and sampled just east of the sewer access in Brighton Avenue to the 10 foot depth.
December 13, 1989	The area northeast of the sewer access was excavated with a backhoe. Gasoline appeared to be seeping from the backfill around the sewer line. A water supply line was inadvertently broke (USA markings incorrectly marked the location of this line). A vacuum truck was used to pump out the water/product from the excavation. Approximately 7,200 gallons of water/gasoline was manifested and sent to H & H Shipyard for treatment and disposal. The water line was repaired, perforated 4 inch PVC pipe was placed vertically into the excavation and the excavation backfilled with pea gravel from approximately the 8 foot depth to subgrade, well RS-7. A portable vapor extraction unit connected to the sewer and RS-7 (operated during daylight hours).
December 15, 1989	RSI S.A.V.E. vapor extraction system installed and connected to onsite wells RS-1, RS-2, RS-5 and RS-6. Operated continuously for one week, then during daylight hours thereafter due to noise disturbance of neighbors. Length of vapor extraction and amounts of hydrocarbons removed not documented.
July 24, 1990	Soil boring/sampling investigations near the sewer lateral in residential backyard 1227 Hampel Avenue.
August 21, 1990	Soil boring/sampling investigations near the sewer lateral in residential backyards 4006 Brighton Avenue and 4010/4012 Brighton Avenue.
December 1990	Commenced quarterly groundwater monitoring.
September 8, 1993	Levine - Fricke, conducted soil boring/sampling investigation at residences 4003 Park Blvd. and 4006 Brighton Avenue. Constructed monitor well at 4003 Park Blvd for property owner of 4003 Park Blvd (not a part of 4035 Park Blvd. site assessment/investigation).
June 23, 1994	Removed all USTs and associated piping from 4035 Park Blvd.
August 14, 1995	Over-excavated UST and dispenser areas at 4035 Park Blvd, 1700 cubic yards of non-hazardous soil transported to and disposed at Forward Landfill, Stockton, California. Installed excavation well R3 (6 inch slotted PVC to 15 feet below surface) south of building, backfill excavation to 5 1/2 feet below surface with 1/4 inch pea gravel. Excavating removed monitor well RS-1.
August 16, 1995	Excavated and removed hydraulic hoists from station building.

August 31, 1995	Exploratory excavation at waste oil UST area, north of building and exploratory excavation west of building to 17 feet below surface. Installed excavation wells R1 in west excavation and R2 in north excavation.
September 5, 1995	Drill/sampled and installed replacement well for RS-1 (MW-1).
May 2, 1996	Soil Probe Survey and soil sample borings along sewer route from 4035 Park Blvd. through back yards, to Brighton Avenue. Temporary casing set in hand augered borings BH-1, BH-2, BH-3, BH-4 and BH-5. Conducted slug tests on BH-1, BH-2, BH-3 and BH-5. Not enough water entry into BH-4 to conduct test. The following hydraulic conductivities (k) were calculated; BH-1 = 0.15 ft/day, BH-2 = 2.9 ft/day, BH-3 = 0.11 ft/day, and BH-5 = 4.8 ft/day.
January 17, 1997	Soil Probe Survey Brighton Avenue
August 12, 1999	Installed receptor trench, Brighton Avenue. 148 cubic yards non hazardous gasoline contaminated soil transported and disposed of at Vacaville Landfill, Vacaville, California. Installed wells RS-8, RS-9 and RS-10.
October 7, 1999	Pumped 19,451 gallons of gasoline contaminated groundwater from receptor trench, stored in above ground 22,000 gallon Baker tank.
January 24, 2000	Obtained sewer discharge permit from East Bay Municipal Utility District, started discharge of water stored in Baker tank to city sewer.
May 4, 2000	Started weekly purging of receptor trench well T1 (4 hours once per week). Discharged purged water through water carbon and then to sewer.
February 15, 2001	Set submersible pump in RS-5 to pump continuously, continued once a week purging of receptor well T1 (46,121 gallons removed from receptor trench well).
July 19, 2001	Ceased pumping of RS-5 and weekly purging of T1; 62,511 gallons removed from T1 and 78,919 gallons removed from RS-5 (total 141,430 gallons of gasoline contaminated groundwater treated and disposed to sewer).
March 21, 2002	Resumed pumping at RS-5.
August 6, 2002	246,849 gallons of gasoline contaminated groundwater pumped, treated and disposed to sewer.
November 20, 2002	Commenced weekly hand bailing of free phase product from well RS-8.
December 12, 2002	Purged receptor trench of 1432 gallons gasoline tainted groundwater.
January 9, 2003	Purged receptor trench of 1349 gallons gasoline tainted groundwater.
January 30, 2003	Purged receptor trench of 1624 gallons gasoline tainted groundwater.
March 13, 2003	Purged receptor trench of 1413 gallons gasoline tainted groundwater.
April 3, 2003	Purged receptor trench of 1305 gallons gasoline tainted groundwater.
April 9, 2003	Demolished existing service station building.
April 15, 2003	Replaced RS05 groundwater recovery pump with WEGE pump, while RS05 pump is serviced.
May 1, 2003	Reinstalled RS05 groundwater recovery pump. Submited Workplan to Investigate Contaminated Soils Above and Below the Water Table at the Former Area of the Station Building, 4035 Park Blvd., Oakland, CA.
May 6, 2003	Purged receptor trench of 1589 gallons gasoline tainted groundwater.
May 21, 2003	Purged receptor trench of 2544 gallons gasoline tainted groundwater.
June 25, 2003	Purged receptor trench of 1796 gallons gasoline tainted groundwater.

July 17, 2003	Purged receptor trench of 1560 gallons gasoline tainted groundwater.
July 31, 2003	Notice to initiate Workplan submitted May 1, 2003
August 6, 2003	Alameda County Health, Scott Seery, phoned Western Geo-Engineers, notifying them not to proceed with workplan.
August 13, 2003	Purged receptor trench of 1574 gallons gasoline tainted groundwater.
September 4, 2003	Purged receptor trench of 1477 gallons gasoline tainted groundwater.
October 3, 2003	Purged receptor trench of 1285 gallons gasoline tainted groundwater.
October 16, 2003	Removed water carbon unit #1, placed new water carbon in #2 position and moved #2 water carbon into #1 position.
November 20, 2003	Purged receptor trench of 1303 gallons gasoline tainted groundwater.
December 18, 2003	Purged receptor trench of 1303 gallons gasoline tainted groundwater.
January 22, 2004	Purged receptor trench of 1175 gallons gasoline tainted groundwater.
February 26, 2004	Purged receptor trench of 102 gallons gasoline tainted groundwater.
March 30, 2004	Purged receptor trench of 975 gallons gasoline tainted groundwater.
April 29, 2004	Purged receptor trench of 1406 gallons gasoline tainted groundwater.
May 13, 2004	Turned pumping system off, removed lid from #1 carbon and removed scaling from top of carbon, replaced lid and restarted pump.
May 27, 2004	Purged receptor trench of 1647 gallons gasoline tainted groundwater.
June 30, 2004	Purged receptor trench of 1759 gallons gasoline tainted groundwater.
July 29, 2004	No electrical power to treatment compound; has been disconnected.
September 24, 2004	New power panel at site, need 100 feet extension cord to connect pump controller to power for RS-5.
September 28, 2004	Restarted pumping at RS-5. Performed 1/4ly well samplings. Purged receptor trench of 1911 gallons.
September 30, 2004	Containment berm full of water, inspect carbon #1, leaking from bottom. Turned system off and removed carbon from system.
October 15, 2004	Take delivery of new water carbon, place #2 carbon into #1 position, new carbon into #2 position, restarted pumping system.
December 8, 2004	Performed 1/4ly well samplings.
December 9-16, 2004	Direct push/cored 12 borings to obtain groundwater and soil samples.

3.0 LOCAL GEOLOGY

3.1 Geomorphology

The site is located on the western slope of the Berkeley Hills. The Berkeley Hills are a northwest-southeast trending range within the Coastal Range Province of California. Erosion of the Coastal Ranges has filled the valleys within and bordering the Coastal Range with sequences of gravels, silts, sands, and clays.

3.2 Stratigraphy

Station Property

The native soil from surface to 13 feet below ground surface (BGS) consists of dark brown silty clay. The dark brown clay is underlain by light brown stiff clay that includes subrounded to rounded metavolcanic gravel. This clay extends to approximately 23 feet BGS at the northwest corner of the site. A fine to medium sand, clayey sand, and silty sand underlies the gravel and clay.

Backyard Sewer Lateral Route

Assessments performed along the sewer lateral as it leaves the site and routes through the residential area towards Brighton Avenue show the subsurface to consist of fill from a couple of inches thick to two feet thick. Beneath the fill is a sequence of clay formations that vary from light brown to dark gray to approximately the 6 foot depth. Silty clay then extends to approximately the 14-foot depth. Beneath the silty clay is sand with occasional gravel. This sand is 11 feet thick at RS5 and is underlain by silty clay.

Brighton Avenue

Construction of the receptor trench along the eastern curb area of Brighton Avenue revealed two separate sequences of lithology. North of the storm drain catch basin the sequence consists of; clay to the four foot depth, silty clay to the seven foot depth, fine silty sand to the 9 foot depth, medium sand to the 10 foot depth, silty clay to the 11 ½ foot depth, gravel to the 12 foot depth underlain by clay to the 16 foot depth. South of the storm catch basin is a sequence of silty clays and clays to depth.

Sandier sequence of sediments north of the storm water catch basin at Brighton Avenue compared to the sediments south of the storm water catch basin, indicate a facies change or a fault remnant striking cast/west near the storm drain catch basin. A topographic lineation along the 200 foot contour is located in this area, see Figure 2.

4.0 COLLECTION AND ANALYSIS OF GROUNDWATER SAMPLES

Groundwater samples were collected on December 8, 2004. Samples were analyzed for Total Petroluem Hydrocabons as gasoline, Benzene, Toluene, Ethylbenzene, Xylenes and the fuel oxygenant Methyl tert-Butal Alcohol (MtBE) using EPA method 8260B, see Table 1. Figure 3 shows the positions of the groundwater monitoring wells, the receptor trench and previous sample locations.

4.1 Depth to Water Measurements

On December 8, 2004 depth to water was measured at each well using a product/water interface probe. Measurements are referenced to the surveyed elevation at the top of casing at each well. Table 1 shows the elevation of groundwater with respect to mean sea level for all wells through December 8, 2004.

5.0 RESULTS OF QUARTERLY GROUNDWATER MONITORING

5.1 Groundwater Gradient and Flow Direction

Figure 4 shows the groundwater elevation gradients and flow direction that were derived from the depth to water measurements of the monitor wells on December 8, 2004, prior to purging the wells for sampling, see Table 1 and Appendix A. On February 15, 2001 a submersible pump was placed into onsite well RS-5 to try and capture contaminated groundwater beneath the site and adjoining properties. The pump rate was set at approximately 2 gpm. The pump was removed from RS-5 on July 19, 2001. After evaluation of the effects the pumping had on remediating the site the pump was placed back into RS-5 on March 21, 2002. As shown on the groundwater elevation chart generated for each well, pumping from RS5 lowers the water levels in RS-6, RS-8, RS-10, R1 and R2, see Appendix B. Table 1 shows the groundwater elevations for the wells during the assessment of this site.

The current flow direction is to the northwest and west with a high mounding on site at the previously excavated/backfilled areas. The hydraulic gradient averages 0.043 feet/linear foot down gradient of MW1 to RS10. The hydraulic gradient averages 0.104 feet/linear foot down gradient of RS8 to well RS9, see Figure 4. The present flow direction and hydraulic gradient are consistent with previous determinations by WEGE. Pumping at RS5 resumed on October 15, 2004 and measurable precipitation occuring during and prior to the quarterly sampling on December 8, 2004. For reference, areas that have been documented to contain contaminated soils (TPHg > 10 mg/Kg) have been shaded yellow.

5.2 Results of Certified Analysis of Groundwater Samples

The results of the certified analyses of groundwater samples collected on December 8, 2004 are shown in Table 1.

TPH-G concentrations in water samples from the eight monitor wells, the receptor trench well and two recovery wells ranged from 3700 ug/L at well RS7, to below laboratory lower detection limits of 50 ug/L in wells MW1, RS2, RS5, RS6, RS10, R1, and R3. No free phase product was found in Well RS8 during this quarter.

Benzene concentrations were found in only three wells; the trench well T1 contained 820 ug/L, RS7 contained 290 ug/L and R2 contained 8.5 ug/L all other wells were below the laboratory lower detection limits (0.5 ug/L), see Appendix C - Laboratory Report.

Analysis results for Oxygenant MtBE was below the laboratory lower detection limit in all wells sampled except trench well T1 which contained 6.9 ug/L and well RS7 which contained 0.56 ug/L. T1 and RS7 are located within Brighton Street, indicating that the MtBE source(s) may be the cars parked along Brighton Street. During the September 16, 1998 well sampling all Fuel Oxygenants; MTBE, Di-isopropyl Ether (DIPE), tertiary Butyl Alcohol (TBA), Ethyl-t-Butyl Ether (ETBE) and t-Amyl Methyl Ether (TAME) were confirmed with EPA Method 8260. These analytes were below laboratory lower detection limits. The presence of TBA at well RS9 detected during the November 2003 sampling most likely indicates the partial oxygenation of MtBE.

Figure 5 (December 8, 2004) shows the lateral distribution of the hydrocarbon plume with benzene distinction in groundwater. The current plume(s) (Figure 5) has decreased in concentration at all wells that contained gasoline range hydrocarbons from the previous quarter sampling (September 28, 2004).

TPHg - Figure 5

Total Petroleum Hydrocarbons, gasoline range has a laboratory lower detection limit (LLDL) of 50 ug/L, was detected in wells R2, RS7, RS8, RS9 and T1 ranging from a low of 74 ug/L at RS9 to a high of 3700 ug/L at RS7.

Benzene - Figure 5

Benzene has a LLDL of 0.5 ug/L. The recommended CPHG (California Public Health Goal) for Benzene is 1.5 ug/L. Benzene was detected in wells R2, RS7, and T1 ranging from a low of 8.5 ug/L at R2 to a high of 820 ug/L at T1.

Toluene

Toluene has a LLDL of 0.5 ug/L. The recommended CPHG for toluene is 150 ug/L. Toluene was detected in wells RS7 and T1, ranging from a low of 18 ug/L at well RS7 to a high of 32 ug/L at well T1.

Ethylbenzene

Ethylbenzene has a LLDL of 0.5 ug/L. The recommended CPHG for Ethylbenzene is 300 ug/L. Ethylbenzene was detected in wells RS7 and T1, ranging from a low of 14 ug/L at well T1 to a high of 130ug/L at well RS7.

Xylenes

Xylenes have a LLDL of 0.5 ug/L. The recommended CPHG for Xylenes is 1800 ug/L. Xylenes were detected in wells RS7, RS8, R2 and T1, ranging from a low of 0.66 ug/L at well RS8 to a high of 190 ug/L at well RS7.

MtBE

MtBE has a LLDL of 0.5 ug/L. The recommended CPHG for MtBE is 13 ug/L. MtBE was detected in wells RS7 and T1, ranging from a low of 0.561 ug/L at well RS7 to a high of 6.9 ug/L at well T1, see Table 1 and Appendix C - Laboratory Report.

Appendix D contains charts developed for wells MW1, RS2, RS5, RS6, RS7, RS8, RS9, RS10, R1, R2, R3 and trench well T1 showing TPHg & Benzene concentration with time. All wells display reductions in concentrations with time for both TPHg and Benzene through the December 8, 2004 sampling.

6.0 PURGING OF RECEPTOR TRENCH

Commencing on May 4, 2000, weekly pumping of the receptor trench has been performed for approximately 4 hours per week. During purging the depth to water within the trench is lowered an average of one foot. Immediately after purging ceases, the water level in the trench recovers to its original depth. Weekly purging of the receptor trench was suspended on July 19, 2001 at the request of Desert Petroleum. 62,511 gallons of contaminated groundwater had been removed from the trench, processed through two, in series, activated carbon water scrubs and discharged to the sanitary sewer. Due to the increase of gasoline range hydrocarbons in downgradient well RS9 sampled on November 5, 2002, the receptor trench was purged on December 12, 2002, removing 1,432 gallons during 5 hours of pumping. Periodic purging of the trench has occurred since that time. As of December 30, 2004 92,009 gallons of groundwater has been pumped from the receptor trench and purged from the groundwater monitoring wells, see Table 2.

7.0 PUMPING ON-SITE WELL RS-5

On February 15, 2001 a submersible pump with a pump bypass was placed into RS-5. The pump rate was adjusted to 1.5 gpm and allowed to continuously pump from RS-5 for one week. 3223 gallons were pumped from RS-5 through the two, in series, water carbon units and discharged to the sewer. On February 22, 2001 the pump was inspected and showed a slimy growth covering the pump and discharge line that was below the water level. The pump was cleaned and placed back into RS-5 and continued to discharge from RS-5 through the water carbon units to sewer until July 19, 2001. On July 19, 2001 Desert Petroleum requested suspension of further pumping at the site. The pump was removed and the site secured. From February 15 through July 19, 2001, 78,919 gallons of gasoline contaminated groundwater was recovered from RS-5 and treated through carbon before being discharged to the sewer. Pumping from RS5 was resumed on March 21, 2002. As of December 30, 2004, 655,963 gallons of groundwater have been pumped from RS5 and treated through two, in series, water carbon units prior to being discharge to the sanitary sewer, see Table 2.

The pumping from RS-5 lowered the groundwater at this well by at least 15 feet, when compared to non pumping water measurements, see Figure 4. This creates a cone of influence out to offsite wells RS-8 and RS-10, see Chart - Appendix B.

8.0 FREE PHASE FLOATING PRODUCT REMOVAL

Yellow Free Phase Floating Product was discovered in well RS8, 0.04 feet in thickness on August 6, 2002. Since all product storage and dispensing systems have been removed from the site (June 1994), it is thought that the product found in RS8, is residual from the November 1989 release and groundwater pumping at RS-5 is retrieving this residual product. Weekly bailing of the floating product commenced on November 20, 2002 and as of December 12, 2002, (the last noted detection of free phase product in RS8) 0.014 gallons of degraded gasoline have been removed and are stored on site in a 55 gallon 17H drum.

9.0 SUMMARY

Until the November 2002 sampling weekly purging of the receptor trench (T1) facilitated the decrease in the TPHg concentrations in down gradient wells RS-7 and RS-9, see Table 1 with charts RS-7. The weekly purging of the receptor trench was limited to a maximum daily discharge of 5 gpm, thus removing approximately 1200 to 2000 gallons per week. Although this does lower the water level in the trench, after pumping has ceased the water level rebounds to it original depth allowing for the gradient migration of TPHg contaminated groundwater to continue.

Pumping from RS-5 has shown to create a cone of influence off-site downgradient out to RS-8 and RS-10. Pumping has increased the dissolved oxygen in RS-5 and hydrocarbon concentrations have declined in R1, R2, R3, RS-5, RS7, RS8, RS9, RS-10 and the Receptor Trench (T1). 0.04 feet of floating product (yellow gasoline) discovered during the August 6, 2002 sampling round could indicate that the pumping at RS-5 is capturing residual free phase product in that area.

The lowest hydrocarbon concentrations were observed while the weekly pumping of the trench well and the continuous pumping of RS5 was occurring, May 31, 2001. The most recent sampling, December 8, 2004 shows continued decrease in hydrocarbons to levels lower than the May 31, 2001 sample results at wells RS5, RS6, RS7, RS9, RS10, R1, R2 and T1. A moderate increase in hydrocarbon concentration downgradient of the site at well RS8 is seen, but is a substantially decreased when compared to the 2003 4th quarter sampling.

Previous sampling, September 2, 1999, showed that aerobic bacteria (hydrocarbon degraders) exist in the groundwater associated with the hydrocarbon plume. A workplan to augment the groundwater with oxygen (air sparging) and nutrients (phosphate and ammonium sulfate) dated August 29, 2000 was presented with the August 29, 2000, Third Quarter 2000 report. This workplan along with the May 31, 2001 conditions were discussed during a meeting at Alameda County Health that involved Mr. Thompson, Desert Petroleum, Mr. Seery, Alameda County Health and Mr. Converse, Western Geo-Engineers, on November 13, 2001. The meeting concluded that nutrient augmentation was not necessary at this time, but enhanced dissolved oxygen was needed. Due to neighborhood concerns, i.e. residential homes and apartments, air sparging and/or using a mechanical delivery device would create too much noise and a more passive oxygen delivery system was warranted, i.e. hydrogen peroxide or Oxygen Release Compound (ORC). An amended workplan was presented in Appendix G of the 4th Quarater 2001 report, dated January 7, 2002 and suggested that ORC would be the most beneficial means of enhancing dissolved oxygen in the

groundwater plume. Western Geo-Engineers then requested Regenisis Inc. to perform a basic model using ORC to determine how to apply, and the amount needed. The Regenisis model indicated that a one-time application (would last approximately one year) of approximately 9,690 pounds of ORC would be needed, at a cost of $77,520.00 for materials, which does not include installation costs. Upon receipt of the Regenisis model, WEGE projected how much hydrogen peroxide would be necessary to increase the dissolved oxygen in the plume from 2 mg/L to 8 mg/L. This simple model indicated that 18 gallons of 35% solution hydrogen peroxide would be necessary per application, at a cost of $1,160.00 per monthly application or $13,920.00 for one year.

Further communications from Mr. Scott Seery with Mr. Converse occurred during the week of February 25 - March 1, 2002. Mr. Seery suggested another meeting to discuss remediation options prior to approving the amended workplan presented with the January 7, 2002 report. In a phone conversation between Mr. Converse and Mr. Seery on August 12, 2002, Mr. Seery requested that the peroxide treatment not be performed until further review of the site by Alameda County Health. On January 15, 2003 the station property was resold by Mr. Toni Razzi to Mr. Kin Man Li (P.O. Box 348, Oakland, CA 94604). The new owner demolished the existing service station building. Western Geo-Engineers has performed additional soil and groundwater sampling of areas previously beneath the station building. A workplan outlining further assessment/risk, dated May 1, 2003 was submitted to Alameda County Health. This workplan was later revised after discussions with Mr. Scott Seery and was approved, June 8, 2004. Field work associated with the workplan was completed on December 16, 2004. Findings will be presented in an update assessment/conceptual model report at a later date.

10.0 RECOMMENDATIONS

With a new property owner intending to build residential buildings on 4035 Park Blvd., the following recommendations are made by Western Geo-Engineers.

- As requested by Alameda County Health: Provide a Site Conceptual Model (SCM) utilizing the most recent sample results
- Soil and groundwater samples obtained from the work outlined in the workplan would be used to update the RBCA Tier II model that has been developed for this site.
- Based on the results of the RBCA Tier II model and the SCM, develop a cost benefit Corrective Action Plan (CAP) for 4035 Park Blvd.
- Determine which wells located at 4035 Park Blvd., are necessary for the assessment and remediation objectives and destroy the unnecessary wells as per Alameda County Health guidelines.

11.0 TIME FRAME

February 28, 2005	Soil and Water Investigation Report, containing the SCM
March 2005	1st Quarter Monitor well sampling.
April 30, 2005	1st Quarter Monitoring Report.

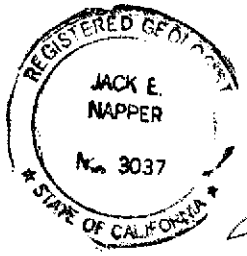
12.0 LIMITATIONS

This report is based upon the following:

A. The observations of field personnel.
B. The results of laboratory analyses performed by a state certified laboratory.
C. Referenced documents.
D. Our understanding of the regulations of the State of California, Alameda County and the City of Oakland.
E. Changes in groundwater conditions can occur due to variations in rainfall, temperature, local and regional water use, and local construction practices.
F. In addition, variations in the soil and groundwater conditions could exist beyond the points explored in this investigation.

State Certified Laboratory analytical results are included in this report. This laboratory follows EPA and State of California approved procedures; however, WEGE is not responsible for errors in these laboratory results. Western Geo-Engineers is a corporation under California Registered Geologist #3037 and/or Contractors License #513857. The services performed by Western Geo-Engineers have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California and the Oakland area. Our work and/or supervision of remediation and/or abatement operations, active or preliminary, at this site is in no way meant to imply that we are owners or operators of this site. Known or suspected contamination of soil and/or groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

Sincerely,



George Converse
Geologist

Jack E. Napper
Ca. Reg. Geologist #3037

cc: Mr. Robert Schultz, Alameda County Health (510) 567-6719
Mr. Leroy Griffin, Oakland Fire Dept.
Mr. Kin Man Li, property owner (510) 599-7000

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-1	12/14/89	228.15	24.25	203.9	19000	2600	2700	200	1200		
RS-1	12/90				15000	3500	330	170	760		
RS-1	2/91				6900	910	200	39	540		
RS-1	6/91				1600	56	180	12	26		
RS-1	9/91				4100	730	7.6	5.1	24		
RS-1	12/91				8300	950	160	71	190		
RS-1	11/9/92	228.15	17.05	211.1	1700	730	9.6	16	14		
RS-1	4/7/94	228.15	13	215.15	860	84	12	16	110		
RS-1	6/19/94	228.15	13.37	214.78	1400	150	12	52	87		
RS-1	9/17/94	228.15	16.33	211.82	310	30	1.8	2.8	3.9		
RS-1	3/12/95	228.15	4.66	223.49	ND	ND	ND	ND	ND		
		DESTROYED BY OVER-EXCAVATION OF UST-DISPENSER AREAS (8/14/95									
		REPLACED WITH MW-1 9/5/95.									
MW-1	10/4/95	229.5	12.38	217.12	ND	ND	ND	ND	ND		
MW-1	12/21/95	229.5	13.40	216.1	< 50	< 0.5	< 0.5	< 0.5	< 2	< 50	
MW-1	03/27/96	229.5	5.53	223.97	< 50	< 0.5	< 0.5	< 0.5	< 2	< 50	
MW-1	06/11/96	229.5	9.02	220.48	< 50	< 0.5	< 0.5	< 0.5	< 2	< 5	
MW-1	09/04/96	229.5	11.84	217.66	< 50	< 0.5	< 0.5	< 0.5	< 2	< 5	
MW-1	12/11/96	229.5	12.98	216.52	< 50	< 0.5	0.9	< 0.5	< 1	< 0.5	
MW-1	2/21/97	229.5	9.50	220	< 50	< 0.5	0.9	< 0.5	< 1	< 0.5	*
MW-1	5/28/97	229.5	11.18	218.32	< 50	3	3	< 0.5	< 1	< 0.5	*
MW-1	9/2/97	229.5	13.00	216.5	< 50	5	< 0.5	< 0.5	< 1	< 0.5	*
MW-1	11/24/97	229.5	14.12	215.38	< 50	5	< 0.5	< 0.5	< 1	< 0.5	*
MW-1	2/25/98	229.5	6.41	223.09	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
MW-1	7/8/98	229.5	7.28	222.22	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
MW-1	9/16/98	229.5	10.96	218.54	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
MW-1	11/24/98	229.5	12.24	217.26	52	2.3	5.2	< 0.5	5.4	11	*
MW-1	2/23/99	229.5	7.14	222.36	< 50	< 0.5	5	< 0.5	< 1	< 0.5	
MW-1	5/5/99	229.5	7.00	222.5	< 50	2	<0.5	< 0.5	< 1	8	
MW-1***	8/26/99	229.5	11.41	218.09	<50	4.1	<0.5	< 0.5	< 1	<1	
MW-1	11/10/99	229.5	13.27	216.23	<50	<0.5	<0.5	< 0.5	< 1	<0.5	
MW-1	2/9/00	229.5	13.76	215.74	<50	<0.5	<0.5	0.5	< 1	0.5	
MW-1	6/30/00	229.5	10.63	218.87	<50	<0.5	<0.5	< 0.5	< 1	< 0.5	
MW-1	8/8/00	229.5	11.77	217.73	62	1	2	< 0.5	2	< 0.5	
MW-1	11/16/00	229.5	13.33	216.17	<50	<0.5	<0.5	< 0.5	< 1	< 0.5	
MW-1	3/8/01	229.5	12.30	217.2	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	5/31/01	229.5	11.88	217.62	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	12/18/01	229.5	13.74	215.76	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	2/19/02	229.5	14.42	215.08	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	5/7/02	229.5	10.78	218.72	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	8/6/02	229.5	12.70	216.8	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	11/5/02	229.5	15.00	214.5	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	12/12/02	229.5	15.46	214.04							
MW-1	3/13/03	229.5	14.51	214.99	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	5/6/03	229.5	11.06	218.44	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	8/13/03	229.5	13.13	216.37	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	11/20/03	229.5	14.85	214.65	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	1/22/04	229.5	13.65	215.85							
MW-1	3/30/04	229.5	11.68	217.82	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	6/10/04	229.5	13.08	216.42	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	9/28/04	229.5	14.33	215.17	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	12/8/04	229.5	14.67	214.83	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-2	12/14/89	227.39									
RS-2	6/19/94	227.39	10.89	216.50							
RS-2	3/12/95	227.39	5.26	222.13	ND	ND	ND	ND	ND		
RS-2	10/4/95	227.39	15.05	212.34	ND	ND	ND	ND	ND		
RS-2	12/21/95	227.39	9.95	217.44	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
RS-2	03/27/96	227.39	6.28	221.11	< 50	< 0.5	< 0.5	< 0.5	< 2	< 50	
RS-2	06/11/96	227.39	8.00	219.39	< 50	1.2	2.8	< 0.5	< 2	< 50	
RS-2	09/04/96	227.39	9.89	217.50	< 50	< 0.5	< 0.5	< 0.5	< 2	< 5	
RS-2	12/11/96	227.39	8.38	219.01	< 50	< 0.5	< 0.5	< 0.5	< 1	6	
RS-2	2/21/97	227.39	6.96	220.43	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	5/28/97	227.39	10.02	217.37	< 50	3	3	< 0.5	< 1	< 0.5	*
RS-2	9/2/97	227.39	11.46	215.93	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	11/24/97	227.39	10.43	216.96	< 50	< 0.5	1	< 0.5	3	< 0.5	*
RS-2	2/25/98	227.39	3.57	223.82	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	7/8/98	227.39	8.83	218.56	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
RS-2	9/16/98	227.39	10.60	216.79	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
RS-2	11/24/98	227.39	13.27	214.12	140	2.8	19	2.6	3.3	15	*
RS-2	2/23/99	227.39	4.06	223.33	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	
RS-2	5/5/99	227.39	7.70	219.69	< 50	0.7	< 0.5	< 0.5	< 1	6	
RS-2***	8/26/99	227.39	11.42	215.97	200	15	23	1.7	23	9	*
RS-2	11/10/99	227.39	15.94	211.45	< 50	<0.5	<0.5	<0.5	< 1	<0.5	
RS-2	2/9/00	227.39	8.91	218.48	< 50	<0.5	<0.5	<0.5	< 1	<0.5	
RS-2	6/30/00	227.39	9.79	217.60	52	2	<0.5	<0.5	< 1	<0.5	
RS-2	8/8/00	227.39	10.71	216.68	60	<0.5	<0.5	<0.5	< 1	<0.5	
RS-2	11/16/00	227.39	10.39	217.00	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	3/8/01	227.39	6.62	220.77	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	5/31/01	227.39	10.09	217.30	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	12/18/01	227.39	6.99	220.40	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	2/19/02	227.39	8.08	219.31	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	5/7/02	227.39	9.27	218.12	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	8/6/02	227.39	11.38	216.01	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	11/5/02	227.39	17.09	210.30	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	12/12/02	227.39	13.19	214.20							
RS-2	3/13/03	227.39	8.93	218.46	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	5/6/03	227.39	8.05	219.34	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	8/13/03	227.39	11.16	216.23	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	11/20/03	227.39	17.62	209.77	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	1/22/04	227.39	7.40	219.99							
RS-2	3/30/04	227.39	7.95	219.44	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	6/10/04	227.39	10.56	216.83	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	9/28/04	227.39	17.02	210.37	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	12/8/04	227.39	9.80	217.59	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level) DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL		TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
(CALIFORNIA PUBLIC HEALTH GOAL)							(1.5)	(150)	(300)	(1800)	(13)	
RS-5	12/14/89	227.61	25.97	201.64		57000	3100	4300	670	3400		
RS-5	2/91	227.61	FLOATING PRODUCT									
RS-5	6/91	227.61	FLOATING PRODUCT									
RS-5	9/91	227.61	FLOATING PRODUCT									
RS-5	12/91	227.61	FLOATING PRODUCT									
RS-5	11/9/92	227.61	20.73	206.88		50000	650	4800	1100	15000		
RS-5	4/7/94	227.61	18.16	209.45		27000	5000	8700	550	2800		
RS-5	6/19/94	227.61	18.11	209.5		20000	2100	5300	470	2500		
RS-5	9/17/94	227.61	19.63	207.98		9300	230	340	110	700		
RS-5	3/12/95	227.61	14.54	213.07		93000	6400	2000	19000	10000		
RS-5	10/4/95	227.61	17.53	210.08		16000	420	2100	320	1800		
RS-5	12/21/95	227.61	17.47	210.14		48000	3500	9200	840	4800	56	
RS-5	03/27/96	227.61	13.51	214.1		68000	4900	18000	1700	11000	< 3000	
RS-5	06/11/96	227.61	14.25	213.36		66000	6300	20000	2100	12000	< 3000	
RS-5	09/04/96	227.61	16.50	211.11		31000	2100	11000	1100	6800	400	
RS-5	12/11/96	227.61	15.88	211.73		85000	7000	21000	1800	8900	570	
RS-5	2/21/97	227.61	13.76	213.85	sh	100000	5000	22000	1700	7300	<0.5	*
RS-5	5/28/97	227.61	15.77	211.84		52000	4500	19000	2100	10000	<0.5	*
RS-5	9/2/97	227.61	17.47	210.14		38000	2200	9400	1300	5800	<0.5	
RS-5	11/24/97	227.61	18.67	208.94		45000	4000	16000	1900	9700	<0.5	*
RS-5	2/25/98	227.61	10.53	217.08		160000	2700	31000	5300	28000	<0.5	*
RS-5	7/8/98	227.61	13.75	213.86		45000	2800	12000	2000	8500	<10	*
RS-5	9/16/98	227.61	15.80	211.81		49000	1400	7500	1700	8600	<5	*
RS-5	11/24/98	227.61	16.64	210.97		89000	5300	15000	2800	13000	<10	
RS-5	2/23/99	227.61	12.36	215.25		19000	1900	11000	2500	4800	<25	*
RS-5	5/5/99	227.61	12.78	214.83		78000	2000	10000	3000	15000	540	*
RS-5***	8/26/99	227.61	16.06	211.55		35000	870	4000	1900	8300	<1	*
RS-5	11/10/99	227.61	17.54	210.07		40000	1000	5600	1800	8100	<0.5	
RS-5	2/9/00	227.61	16.31	211.3		46000	1400	6900	2700	11000	<0.5	
RS-5	6/30/00	227.61	15.15	212.46		37000	810	5200	2200	9100	<2.5	*
RS-5	8/8/00	227.61	16.10	211.51		14000	330	500	1400	6500	<0.5	
RS-5	11/16/00	227.61	17.38	210.23		23000	430	2300	1100	4800	<0.5	*
RS-5	3/8/01	227.61	27.72	199.89		11000	360	260	140	1500	2.6	****
RS-5	5/31/01	227.61	22.96	204.65		7500	26	11	38	470	<5	****
RS-5	12/18/01	227.61	15.61	212		12000	610	1200	100	1500	<5	****
RS-5	2/19/02	227.61	14.80	212.81		22000	460	1700	680	4000	<5	****
RS-5	5/7/02	227.61	31.77	195.84		700	150	10	19	67	5.2	****
RS-5	8/6/02	227.61	31.77	195.84		< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-5	11/5/02	227.61	31.77	195.84		12000	150	360	21	890	<2	****
RS-5	12/12/02	227.61	21.53	206.08								
RS-5	3/13/03	227.61	36.70	190.91		240	5.5	1.9	2.3	9.6	1.4	****
RS-5	5/6/03	227.61	14.52	213.09								
RS-5	8/13/03	227.61	31.77	195.84		310	1.4	<0.5	1	2.9	<0.5	****
RS-5	11/20/03	227.61	32.00	195.61		17000	150	720	240	1800	0.72	****
RS-5	1/22/04	227.61	25.30	202.31								
RS-5	3/30/04	227.61	21.90	205.71		4000	370	59	13	380	2.6	****
RS-5	6/10/04	227.61	35.00	192.61		120	7	0.88	1.3	4.3	1.3	****
RS-5	9/28/04	227.61	19.05	208.56		2600	110	89	75	56	<0.5	****
RS-5	12/8/04	227.61	25.00	202.61		< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-6	12/14/89	227.22	22.52	204.7	11000	1400	1700	160	860		
RS-6	2/91	227.22	FLOATING PRODUCT								
RS-6	6/91	227.22			95000	4200	4200	650	3700		
RS-6	9/91	227.22	FLOATING PRODUCT								
RS-6	12/91	227.22			64000	3700	2300	730	4100		
RS-6	11/9/92	227.22	19.43	207.79	19000	1600	710	500	1600		
RS-6	4/7/94	227.22	14.42	212.8	16000	1200	1300	290	1100		
RS-6	6/19/94	227.22	14.45	212.77	23000	1300	2200	590	2200		
RS-6	9/17/94	227.22	19.52	207.7	24000	630	790	250	1100		
RS-6	3/12/95	227.22	8.90	218.32	3200	450	13	82	230		
RS-6	10/4/95	227.22	17.78	209.44	3700	170	250	38	290		
RS-6	12/21/95	227.22	14.98	212.24	3100	120	30	16	150	58	
RS-6	03/27/96	227.22	10.00	217.22	6900	180	440	79	360	< 300	
RS-6	06/11/96	227.22	12.00	215.22	7400	220	150	30	100	<1000	
RS-6	09/04/96	227.22	15.00	212.22	1400	68	2.6	7.7	9.2	14	
RS-6	12/11/96	227.22	12.36	214.86	1800	39	16	10	18	< 0.5	
RS-6	2/21/97	227.22	10.00	217.22	2100	71	85	25	40	< 0.5	*
RS-6	5/28/97	227.22	13.56	213.66	1700	34	12	11	16	< 0.5	*
RS-6	9/2/97	227.22	16.35	210.87	940	34	71	9	55	< 0.5	*
RS-6	11/24/97	227.22	15.72	211.5	490	9	6	1	7	< 0.5	*
RS-6	2/25/98	227.22	6.26	220.96	1400	22	47	5	52	< 0.5	*
RS-6**	7/8/98	227.22	11.41	215.81	1500	83	9	84	2	<10	*
RS-6	7/30/98	227.22			<50	<0.5	<0.5	<0.5	<1		
RS-6	9/16/98	227.22	13.42	213.8	990	23	<0.5	<0.5	<1	<1	*
RS-6	11/24/98	227.22	15.91	211.31	3400	5.3	<0.5	<0.5	14	<0.5	
RS-6	2/23/99	227.22	7.00	220.22	1000	3.4	3.2	1.6	7.3	<0.5	
RS-6	5/5/99	227.22	10.29	216.93	1100	50	10	80	15	2	
RS-6***	8/26/99	227.22	13.72	213.5	690	44	2.5	30	31	<5	
RS-6	11/10/99	227.22	13.90	213.32	1800	2	2	0.9	16	< 0.5	
RS-6	2/9/00	227.22	12.77	214.45	410	3	3	4	7	< 0.5	
RS-6	6/30/00	227.22	12.69	214.53	660	7	2	5	6	< 0.5	
RS-6	8/8/00	227.22	14.72	212.5	660	2	3	2	6	< 0.5	
RS-6	11/16/00	227.22	15.28	211.94	560	1	2	1	5	< 0.5	
RS-6	3/8/01	227.22	10.10	217.12	2200	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	5/31/01	227.22	12.96	214.26	630	<0.5	<0.5	<0.5	<0.5	<5	****
RS-6	12/18/01	227.22	10.88	216.34	56	0.53	<0.5	<0.5	0.56	<0.5	****
RS-6	2/19/02	227.22	11.08	216.14	<50	<0.5	<0.5	0.6	<0.5	<0.5	****
RS-6	5/7/02	227.22	12.31	214.91	240	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	8/6/02	227.22	14.23	212.99	130	<0.5	<0.5	<0.5	<0.5	3	****
RS-6	11/5/02	227.22	17.99	209.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	12/12/02	227.22	17.57	209.65							
RS-6	3/13/03	227.22	11.82	215.4	120	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	5/6/03	227.22	10.10	217.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	8/13/03	227.22	13.88	213.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	11/20/03	227.22	18.62	208.6	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	1/22/04	227.22	11.24	215.98							
RS-6	3/30/04	227.22	10.72	216.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	6/10/04	227.22	13.52	213.7	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	9/28/04	227.22	17.95	209.27	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	12/8/04	227.22	14.80	212.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-7	12/14/89	195.99									
RS-7	7/90	195.99			5600000	24000	210000	50000	740000		
RS-7	2/91	195.99	FLOATING PRODUCT								
RS-7	6/91	195.99	FLOATING PRODUCT								
RS-7	9/91	195.99	FLOATING PRODUCT								
RS-7	12/91	195.99			270000	11000	22000	2000	13000		
RS-7	11/9/92	195.99	4.62	191.37	81000	12000	16000	1900	13000		
RS-7	4/7/94	195.99	4.03	191.96	74000	16000	16000	1400	8500		
RS-7	6/19/94	195.99	4.07	191.92	83000	22000	19000	1500	9500		
RS-7	9/17/94	195.99	4.05	191.94	270000	13000	15000	2100	1100		
RS-7	3/12/95	195.99	3.72	192.27	35000	5100	560	6300	3600		
RS-7	10/4/95	195.99	4.03	191.96	96000	14000	14000	1300	7000		
RS-7	12/21/95	195.99	3.95	192.04	70000	9300	12000	860	5600	210	
RS-7	03/27/96	195.99	3.80	192.19	64000	8900	14000	1100	8300	< 3000	
RS-7	06/11/96	195.99	3.79	192.2	65000	12000	17000	1600	9700	<5000	
RS-7	09/04/96	195.99	3.99	192	20000	4900	2100	670	4400	100	
RS-7	12/11/96	195.99	3.78	192.21	17000	4400	7500	570	4600	180	
RS-7	2/21/97	195.99	3.82	192.17	93000	31000	47000	3800	23000	<0.5	*
RS-7	5/28/97	195.99	3.82	192.17	52000	12000	8200	2000	11000	<0.5	*
RS-7	9/2/97	195.99	3.96	192.03	28000	6100	2800	950	3800	<50	
RS-7	11/24/97	195.99	3.76	192.23	18000	4300	5900	600	2900	<0.5	*
RS-7	2/25/98	195.99	3.70	192.29	13000	4300	7100	1100	5800	<0.5	*
RS-7**	7/8/98	195.99	3.76	192.23	45000	10000	3400	2000	8000	<10	*
RS-7	7/30/98	195.99			72000	12000	2100	2000	9100		
RS-7	9/16/98	195.99	3.83	192.16	5000	6500	160	<2.5	500	<5	*
RS-7	11/24/98	195.99	3.77	192.22	19000	2100	1100	500	2100	<0.5	
RS-7	2/23/99	195.99	3.70	192.29	83000	6500	9900	1200	7000	<10	
RS-7	5/5/99	195.99	3.88	192.11	47000	7400	4800	1300	7400	540	
RS-7***	8/26/99	195.99	4.16	191.83	15000	3400	91	950	970	<5	
RS-7	11/10/99	195.99	4.12	191.87	10000	2900	170	630	1200	<0.5	
RS-7	2/9/00	195.99	3.98	192.01	9400	1400	120	480	600	<0.5	
RS-7	6/30/00	195.99	4.04	191.95	8200	3300	190	430	540	<0.5	
RS-7	8/8/00	195.99	4.06	191.93	11000	2300	150	430	520	<0.5	
RS-7	11/16/00	195.99	4.04	191.95	5400	1500	40	240	200	<0.5	
RS-7	3/8/01	195.99	3.94	192.05	12000	3300	260	480	850	17	****
RS-7	5/31/01	195.99	4.01	191.98	10000	1900	120	320	620	<100	****
RS-7	12/18/01	195.99	4.81	191.18	2700	450	21	86	120	2.3	****
RS-7	2/19/02	195.99	3.91	192.08	20000	2600	360	570	1900	11	****
RS-7	5/7/02	195.99	3.97	192.02	9200	1400	120	360	780	6.6	****
RS-7	8/6/02	195.99	4.06	191.93	8300	1300	71	250	480	<10	****
RS-7	11/5/02	195.99	4.11	191.88	9300	1500	90	330	680	<10	****
RS-7	12/12/02	195.99	4.13	191.86							
RS-7	3/13/03	195.99	4.02	191.97	5500	990	51	180	330	6.1	****
RS-7	5/6/03	195.99	3.98	192.01	4800	740	36	160	310	4.7	****
RS-7	8/13/03	195.99	4.09	191.9	9400	1300	65	310	620	6.1	****
RS-7	11/20/03	195.99	4.10	191.89	4800	700	13	110	110	<5	****
RS-7	1/22/04	195.99	4.12	191.87							
RS-7	3/30/04	195.99	4.05	191.94	3800	540	33	140	210	3.4	****
RS-7	6/10/04	195.99	4.12	191.87	4000	740	22	82	130	2.8	****
RS-7	9/28/04	195.99	4.18	191.81	5000	640	20	110	130	2.8	****
RS-7	12/8/04	195.99	3.92	192.07	3700	290	18	130	190	0.56	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-8	12/14/89										
RS-8	09/04/96										
RS-8	12/11/96										
RS-8	2/21/97										
RS-8	5/28/97										
RS-8	9/2/97										
RS-8	11/24/97										
RS-8	2/25/98										
RS-8	7/8/98										
RS-8	9/16/98										
RS-8	11/24/98										
RS-8	2/23/99										
RS-8	5/5/99										
RS-8***	8/26/99	214.67	7.25	207.42	160000	24000	35000	4200	24000	<5	
RS-8	11/10/99	214.67	8.69	205.98	150000	21000	29000	3000	14000	<0.5	
RS-8	2/9/00	214.67	7.23	207.44	14000	1900	3200	270	2300	<0.5	
RS-8	6/30/00	214.67	3.99	210.68	6400	570	870	150	770	<0.5	
RS-8	8/8/00	214.67	7.52	207.15	100000	24000	40000	2300	9900	<0.5	*
RS-8	11/16/00	214.67	6.14	208.53	110000	14000	21000	2100	9600	<20	*
RS-8	3/8/01	214.67	9.40	205.27	10000	740	840	220	990	<2	****
RS-8	5/31/01	214.67	6.83	207.84	730	11	29	4.2	31	<5	****
RS-8	12/18/01	214.67	7.14	207.53	4500	230	370	77	750	<0.5	****
RS-8	2/19/02	214.67	7.69	206.98	780	33	21	5.1	45	<0.5	****
RS-8	5/7/02	214.67	7.82	206.85	24000	1500	1800	830	2700	<10	****
RS-8	8/6/02	214.67	13.46	201.21		0.04	feet floating product				
RS-8	11/5/02	214.67	13.96	200.71		0.40	feet floating product				
RS-8	12/12/02	214.67	14.38	200.29		0.08	feet floating product				
RS-8	3/13/03	214.67	10.99	203.68	90000	1100	14000	2500	12000	<50	****
RS-8	5/6/03	214.67	5.35	209.32	1600	6.7	46	21	170	<0.5	****
RS-8	8/13/03	214.67	11.96	202.71	100000	1200	10000	2500	13000	<50	****
RS-8	11/21/03	214.67	12.30	202.37	100000	1700	10000	1700	12000	<25	****
RS-8	1/22/04	214.67	9.63	205.04							
RS-8	3/30/04	214.67	8.70	205.97	18000	69	110	130	1200	<5	****
RS-8	6/10/04	214.67	10.65	204.02	33000	210	350	360	2300	<5	****
RS-8	9/28/04	214.67	9.00	205.67	6000	59	20	100	170	<1	****
RS-8	12/8/04	214.67	4.50	210.17	1100	<0.5	<0.5	<0.5	0.66	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	[13]	
RS-9	12/14/89										
RS-9***	09/04/96										
RS-9***	12/11/96										
RS-9***	2/21/97										
RS-9***	5/28/97										
RS-9***	9/2/97										
RS-9***	11/24/97										
RS-9***	2/25/98										
RS-9***	7/8/98										
RS-9***	9/16/98										
RS-9***	11/24/98										
RS-9***	2/23/99										
RS-9***	5/5/99										
RS-9***	8/26/99	195.63	7.46	188.17	17000	3500	1200	360	1600	180	*
RS-9	11/10/99	195.63	7.91	187.72	2800	520	62	46	130	<0.5	
RS-9	2/9/00	195.63	6.09	189.54	3400	650	74	64	130	<0.5	
RS-9	6/30/00	195.63	6.77	188.86	3000	600	79	74	120	<0.5	
RS-9	8/8/00	195.63	7.32	188.31	4900	500	430	160	530	<0.5	
RS-9	11/16/00	195.63	6.33	189.3	3000	350	220	90	220	<0.5	
RS-9	3/8/01	195.63	4.93	190.7	<50	3.4	<0.5	<0.5	<0.5	<0.5	****
RS-9	5/31/01	195.63	4.01	191.62	510	96	6	6.2	9.1	5.5	****
RS-9	12/18/01	195.63	4.81	190.82	210	11	1.8	3.9	7.6	<0.5	****
RS-9	2/19/02	195.63	4.99	190.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-9	5/7/02	195.63	6.08	189.55	130	7.9	<0.5	1.2	<0.5	0.67	****
RS-9	8/6/02	195.63	6.93	188.7	380	29	1.2	2.3	2.9	3.1	****
RS-9	11/5/02	195.63	7.53	188.1	1800	240	9	27	110	8.6	****
RS-9	12/12/02	195.63	7.23	188.4							
RS-9	3/13/03	195.63	5.73	189.9	410	30	3	6	9.5	3.3	****
RS-9	5/6/03	195.63	4.83	190.8	910	72	15	9.2	26	5.5	****
RS-9	8/13/03	195.63	8.24	187.39	810	20	<0.5	2.4	1.6	3.6	****
RS-9	11/20/03	195.63	6.99	188.64	3600	920	5.3	6.1	20	30	****
RS-9	1/22/04	195.63	5.43	190.2							
RS-9	3/30/04	195.63	5.07	190.56	1900	360	9.3	19	48	21	****
RS-9	6/10/04	195.63	6.18	189.45	950	180	3	8.4	14	8.7	****
RS-9	9/28/04	195.63	6.94	188.69	4900	1800	5.9	5	16	31	****
RS-9	12/8/04	195.63	4.42	191.21	74	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-10	12/14/89										
RS-10***	09/04/96										
RS-10***	12/11/96										
RS-10***	2/21/97										
RS-10***	5/28/97										
RS-10***	9/2/97										
RS-10***	11/24/97										
RS-10***	2/25/98										
RS-10***	7/8/98										
RS-10***	9/16/98										
RS-10***	11/24/98										
RS-10***	2/23/99										
RS-10***	5/5/99										
RS-10***	8/26/99	208.46	3.76	204.7	5100	160	340	190	1000	32	*
RS-10	11/10/99	208.46	3.83	204.63	500	7	2	2	4	<0.5	
RS-10	2/9/00	208.46	0.31	208.15	100	4	3	1	6	<0.5	
RS-10	6/30/00	208.46	2.22	206.24	640	5	2	4	2	<0.5	
RS-10	8/8/00	208.46	2.46	206	460	2	2	2	7	<0.5	
RS-10	11/16/00	208.46	2.46	206	360	1	1	2	<1	<0.5	
RS-10	3/8/01	208.46	2.82	205.64	53	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/31/01	208.46	4.93	203.53	210	<0.5	<0.5	1.5	5	<5	****
RS-10	12/18/01	208.46	2.10	206.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	2/19/02	208.46	2.29	206.17	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/7/02	208.46	2.92	205.54	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	8/6/02	208.46	4.11	204.35	<50	<0.5	0.7	<0.5	1.6	<0.5	****
RS-10	11/5/02	208.46	4.05	204.41	54	<0.5	1.2	<0.5	1.1	<0.5	****
RS-10	12/12/02	208.46	6.81	201.65							
RS-10	3/13/03	208.46	3.00	205.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/6/03	208.46	2.55	205.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	8/13/03	208.46	3.68	204.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	11/20/03	208.46	4.45	204.01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	1/22/04	208.46									
RS-10	3/30/04	208.46	3.05	205.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	6/10/04	208.46	4.85	203.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	9/28/04	208.46	6.75	201.71	<50	4.6	<0.5	<0.5	<0.5	<0.5	****
RS-10	12/8/04	208.46	1.74	206.72	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
(CALIFORNIA PUBLIC HEALTH GOAL)	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
R1	12/14/89										
R1	09/04/96	227.69	15.00	212.69	1800	1100	3	29	< 10	< 30	
R1	12/11/96	227.69	10.30	217.39	<50	<0.5	< 0.5	< 0.5	< 1	4	
R1	2/21/97	227.69	11.88	215.81	2500	670	9	3	13	<0.5	*
R1	5/28/97	227.69	14.03	213.66	24000	4300	36	2000	370	<0.5	*
R1	9/2/97	227.69	14.98	212.71	4400	320	6	340	72	20	
R1	11/24/97	227.69	14.06	213.63	100	39	1	18	10	<0.5	
R1	2/25/98	227.69	8.93	218.76	1200	400	8	13	150	<0.5	
R1	7/8/98	227.69	11.36	216.33	68	14	< 0.5	< 0.5	< 1	<1	*
R1	9/16/98	227.69	13.30	214.39	16000	3400	92	< 0.5	410	<1	*
R1	11/24/98	227.69	10.72	216.97	340	19	1.6	35	9.7	<0.5	
R1	2/23/99	227.69	9.34	218.35	60	16	0.6	5.6	1.2	<0.5	
R1	5/5/99	227.69	11.30	216.39	1300	290	3	150	1	15	
R1	8/26/99	227.69	13.97	213.72	6500	630	<0.5	1300	<1	<1	
R1	11/10/99	227.69	13.73	213.96	480	12	4	22	9	<0.5	
R1	2/9/00	227.69	13.10	214.59	<50	8	<0.5	1	<1	<0.5	
R1	6/30/00	227.69	13.42	214.27	2600	350	35	1900	220	<0.5	
R1	8/8/00	227.69	14.25	213.44	10000	910	76	2100	390	<0.5	
R1	3/8/01	227.69	13.72	213.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**
R1	3/8/01	227.69	13.72	213.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R1	5/31/01	227.69	15.77	211.92	3800	400	16	470	67	<5	****
R1	12/18/01	227.69	9.90	217.79	<50	<0.5	<0.5	1.5	<0.5	<0.5	****
R1	2/19/02	227.69	10.86	216.83	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R1	5/7/02	227.69	16.17	211.52	53	3.3	<0.5	1	<0.5	<0.5	****
R1	8/6/02	227.69	16.83	210.86	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R1	11/5/02	227.69	16.92	210.77	dry, groundwater deeper than 210.77 foot elevation						
R1	12/12/02	227.69	16.94	210.75							
R1	3/13/03	227.69	15.69	212	<50	4.5	<0.5	<0.5	<0.5	<0.5	****
R1	5/6/03	227.69	10.75	216.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R1	8/13/03	227.69	16.04	211.65	430	17	<0.5	1.4	1.1	<0.5	****
R1	11/20/03	227.69	dry								
R1	1/22/04	227.69	14.40	213.29							
R1	3/30/04	227.69	14.05	213.64	<50	2.8	<0.5	<0.5	<0.5	<0.5	****
R1	6/10/04	227.69	15.85	211.84	3200	85	2.6	38	8.3	<0.5	****
R1	9/28/04	227.69	15.06	212.63	2000	35	2.2	12	4.4	<0.5	****
R1	12/8/04	227.69	9.70	217.99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion (ug/L, ppb)) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
R2	12/14/89										
R2	09/04/96	230.68	13.44	217.24	14000	7600	<10	170	190	<100	
R2	12/11/96	230.68	12.42	218.26	488	300	1	< 0.5	30	16	
R2	2/21/97	230.68	10.50	220.18	5700	2100	5	2	10	3	*
R2	5/28/97	230.68	13.10	217.58	36000	14000	63	260	220	<0.5	*
R2	9/2/97	230.68	14.16	216.52	30000	12000	330	1000	790	47	
R2	11/24/97	230.68	14.71	215.97	41000	15000	830	1500	4200	<0.5	*
R2	2/25/98	230.68	7.39	223.29	800	400	<0.5	<0.5	15	<0.5	*
R2	7/8/98	230.68	11.27	219.41	290	31	< 0.5	1	< 1	2	*
R2	9/16/98	230.68	13.73	216.95	6600	11000	24	<0.5	35	<1	*
R2	11/24/98	230.68	11.67	219.01	6100	<0.5	36	<0.5	21	<0.5	
R2	2/23/99	230.68	7.55	223.13	1100	310	3	2	26	<0.5	
R2	5/5/99	230.68	10.89	219.79	11000	5300	7	36	7	8	
R2	8/26/99	227.28	13.14	214.14	6700	940	33	190	240	<1	*
R2	11/10/99	227.28	14.42	212.86	5100	2600	160	1800	8100	<0.5	*
R2	2/9/00	227.28	12.45	214.83	4700	1400	110	130	340	<0.5	
R2	6/30/00	227.28	12.94	214.34	7100	3200	110	300	480	<0.5	
R2	8/8/00	227.28	13.58	213.7	30000	13000	250	1000	2700	<0.5	
R2	11/16/00	227.28	14.33	212.95	44000	17000	230	790	3600	<0.5	
R2	3/8/01	227.28	11.15	216.13	2300	640	8.6	61	170	<2	****
R2	5/31/01	227.28	13.38	213.9	2200	580	12	72	100	<25	****
R2	12/18/01	227.28	12.35	214.93	4900	2000	120	44	280	<5	****
R2	2/19/02	227.28	11.32	215.96	2100	1200	<5	14	<5	<5	****
R2	5/7/02	227.28	13.15	214.13	2500	660	7.5	170	26	<2.5	****
R2	8/6/02	227.28	14.51	212.77	6300	1800	150	220	340	<5	****
R2	11/5/02	227.28	15.46	211.82	11000	3000	140	57	620	<20	****
R2	12/12/02	227.28	15.70	211.58							
R2	3/13/03	227.28	12.96	214.32	580	200	1.2	5.4	3.8	<1	****
R2	5/6/03	227.28	11.14	216.14	70	25	<0.5	<0.5	1.3	<0.5	****
R2	8/13/03	227.28	14.01	213.27	1800	340	8	49	12	<2	****
R2	11/20/03	227.28	15.35	211.93	8000	1400	46	57	490	<5	****
R2	1/22/04	227.28	12.10	215.18							
R2	3/30/04	227.28	11.48	215.8	<50	3	<0.5	<0.5	<0.5	<0.5	****
R2	6/10/04	227.28	13.95	213.33	77	7.7	<0.5	<0.5	<0.5	<0.5	****
R2	9/28/04	227.28	14.80	212.48	500	120	2	25	2.7	0.71	****
R2	12/8/04	227.28	12.25	215.03	100	8.5	<0.5	<0.5	5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level) DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
R3	12/14/89										
R3	09/04/96	230.32	9.90	220.42	<50	<0.5	<0.5	<0.5	<2	<5	
R3	12/11/96	230.32	8.18	222.14	<50	<0.5	<0.5	<0.5	<1	5	
R3	2/21/97	230.32	6.76	223.56	340	35	59	8	54	<0.5	*
R3	5/28/97	230.32	9.98	220.34	<50	<0.5	<0.5	<0.5	<1	<0.5	*
R3	9/2/97	230.32	10.86	219.46	<50	4	<0.5	<0.5	<1	<0.5	*
R3	11/24/97	230.32	11.20	219.12	not enough water to sample. No sample						
R3	2/25/98	230.32	3.42	226.9	<50	<0.5	<0.5	<0.5	<1	<0.5	*
R3	7/8/98	230.32	8.78	221.54	140	<0.5	<0.5	4	24	<1	*
R3	9/16/98	230.32	10.38	219.94	<50	<0.5	<0.5	<0.5	<1	<1	*
R3	11/24/98	230.32	11.12	219.2	not enough water to sample. No sample						
R3	2/23/99	230.32	3.95	226.37	<50	<0.5	<0.5	<0.5	<1	<0.5	*
R3	5/5/99	230.32	7.58	222.74	80	9	<0.5	<0.5	<1	6	
R3	8/26/99	227.25	10.76	216.49	<50	2	<0.5	<0.5	<1	1	*
R3	11/10/99	227.25	11.09	216.16	140	3	4	1	11	<0.5	
R3	2/9/00	227.25	8.76	218.49	<50	2	<0.5	<0.5	<1	<0.5	
R3	6/30/00	227.25	9.67	217.58	<50	0.7	<0.5	1	1	<0.5	
R3	8/8/00	227.25	10.44	216.81	72	<0.5	<0.5	<0.5	<1	<0.5	
R3	11/16/00	227.25	10.26	216.99	110	4	1	<0.5	3	<0.5	
R3	3/8/01	227.25	6.54	220.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/31/01	227.25	10.01	217.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	12/18/01	227.25	6.79	220.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	2/19/02	227.25	7.86	219.39	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/7/02	227.25	9.20	218.05	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	8/6/02	227.25	10.62	216.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	11/5/02	227.25	11.07	216.18	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	12/12/02	227.25	11.28	215.97							
R3	3/13/03	227.25	8.69	218.56	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/6/03	227.25	8.02	219.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	8/13/03	227.25	dry		DRY						
R3	11/20/03	227.25	dry		DRY						
R3	1/22/04	227.25	7.30	219.95							
R3	3/30/04	227.25	7.85	219.4	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	6/10/04	227.25	10.30	216.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	9/28/04	227.25	dry		DRY						
R3	12/8/04	227.25	9.00	218.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
T 1	12/14/89										
T 1	09/04/96										
T 1	12/11/96										
T 1	2/21/97										
T 1	5/28/97										
T 1	9/2/97										
T 1	11/24/97										
T 1	2/25/98										
T 1	7/8/98										
T 1	9/16/98										
T 1	11/24/98										
T 1	2/23/99										
T 1	5/5/99										
T 1***	8/26/99	195.11	2.44	192.67	40000	7200	5000	950	8100	53	*
T 1	11/10/99	195.11	2.23	192.88	46000	5600	3600	910	6500	<0.5	
T 1	2/9/00	195.11	2.22	192.89	35000	2900	5700	720	6600	<0.5	
T 1	6/30/00	195.11	2.22	192.89	30000	3400	3200	950	4600	<5	
T 1	8/8/00	195.11	2.73	192.38	8900	1600	760	260	870	<5	
T 1	11/16/00	195.11	2.72	192.39	4000	1300	92	80	290	<0.5	
T 1	3/8/01	195.11	2.12	192.99	25000	4400	3400	770	3200	26	****
T 1	5/31/01	195.11	2.30	192.81	8900	940	210	340	1500	<50	****
T 1	12/18/01	195.11	2.20	192.91	48000	3700	5500	1200	5300	24	****
T 1	2/19/02	195.11	1.96	193.15	64000	8600	6000	1700	6800	55	****
T 1	5/7/02	195.11	2.22	192.89	41000	9200	910	2000	6200	62	****
T 1	8/6/02	195.11	2.32	192.79	28000	5500	240	1300	2600	32	****
T 1	11/5/02	195.11	2.52	192.59	11000	3000	65	660	610	18	****
T 1	12/12/02	195.11	2.55	192.56							
T 1	3/13/03	195.11	2.23	192.88	930	150	17	23	60	2.6	****
T 1	5/6/03	195.11	2.37	192.74	6800	1000	230	310	820	10	****
T 1	8/13/03	195.11	2.41	192.7	9600	1500	110	440	910	10	****
T 1	11/20/03	195.11	2.50	192.61	10000	1800	120	520	510	11	****
T 1	1/22/04	195.11									
T 1	3/30/04	195.11			15000	1800	660	610	2000	8.6	****
T 1	6/10/04	195.11	2.40	192.71	5500	570	2	240	130	2.7	****
T 1	9/28/04	195.11	2.52	192.59	8700	2600	100	450	15	15	****
T 1	12/8/04	195.11	1.96	193.15	2900	820	32	14	47	6.9	****
T 2	1/22/04	195.3	2.54	192.76							
T 2	3/30/04	195.3	2.50	192.8							
T 2	6/10/04	195.3	2.60	192.7							
T 2	9/28/04	195.3	car								
T 2	12/8/04	195.3	2.04	193.26							
T 3	1/22/04	202.38									
T 3	6/10/04	202.38	9.80	192.58							
T 3	9/28/04	202.38	9.90	192.48							
T 3	12/8/04	202.38	9.24	193.14							
T4	1/22/04	197.48	4.70	192.78							
T4	3/30/04	197.48	4.66	192.82							
T4	6/10/04	197.48	4.76	192.72							
T4	9/28/04	197.48	4.86	192.62							
T4	12/8/04	197.48	4.21	193.27							

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level) (CALIFORNIA PUBLIC HEALTH GOAL)											
LF 1	1/22/04	226.59	29.12	197.47							
LF 1	3/30/04	226.59	26.45	200.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
LF 1	6/10/04	226.59	27.57	199.02	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
LF 1	9/28/04	226.59	28.72	197.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
LF 1	12/8/04	226.59	car								

ND BELOW LABORATORY DETECTION LIMITS
TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
* MTBE results confirmed by EPA Method 8260 (GC/MS)
** LAB REPORT HAD RS-6 AND RS-7 MISLABELED, RESAMPLE ON 7/30/98 CONFIRMED.
*** WELL CASING ELEVATION SURVEY 8-27-99, WADE HAMMOND No.6163,BENCH MARK CITY OF OAKLAND
**** SAMPLES ANALYZED USING EPA METHOD 8260B

TABLE 2
GROUNDWATER REMOVAL
FORMER DP #793
4035 PARK BLVD., OAKLAND CALIFORNIA

DATE PURGED	METER READING IN GALLONS RS5	METER READING IN GALLONS TRENCH	DEPTH TO TOP OF WATER IN FEET T1	GALLONS PURGED T1 and/or 1/4ly monitoring	ACCUMULATED GALLONS REMOVED FROM TRENCH &WELLS in GALLONS	Accumulated gallons removed from RS5 Gallons	TOTAL GALLONS REMOVED	INFLUENT CONCENTRATIONS EPA METHOD 8020 - 8260B TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L	Sample Location
					0									
12/3/03	1649967.4	1649967.4		0	81579	474542.7	556121.6							
12/11/03	1649977.6	1649977.6		0	81579	474552.9	556131.8							
12/18/03	1654385.3	1655688.6		1303	82882	478960.6	561842.8							
12/23/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
12/30/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
1/22/04	1672236.9	1673412.0		1175	84057	495508.9	579566.2							
2/26/04	1696276.0	1696378.0		102	84159	518372.9	602532.2							
3/30/04	1722614.0	1723589.0		975	85134	544608.9	629743.2	15000	1800	660	610	2000	8.6	T1
4/8/04	1729975.5	1729975.5		0	85134	550995.4	636129.7	4000	370	59	13	380	2.6	RS5
4/14/04	1734113.2	1734113.2		0	85134	555133.1	640267.4							
4/22/04	1739978.0	1739978.0		0	85134	560997.9	646132.2							
4/29/04	1744687.9	1746094.5		1407	86541	565707.8	652248.7							
5/13/04	1754248.1	1754248.1		0	86541	573861.4	660402.3							
5/21/04	1759593.7	1759593.7		0	86541	579207.0	665747.9							
5/27/04	1762418.0	1764065.5		1648	88188	582031.3	670219.7							
6/3/04	1769445.0	1769445.0		0	88188	587410.8	675599.2	5500	570	2	240	130	2.7	T1
6/10/04	1774349.0	1774349.0		0	88188	592314.8	680503.2	120	7	0.88	1.3	4.3	1.3	RS5
6/17/04	1778979.0	1778979.0		0	88188	596944.8	685133.2							
6/25/04	1783576.7	1783576.7		0	88188	601542.5	689730.9							
6/30/04	1786027.0	1787786.1		1759	89948	603992.8	693940.3							
7/8/04	1787858.5	1787858.5		0	89948	604065.2	694012.7							
7/22/04	1791170.5	1791170.5		0	89948	607377.2	697324.7							
7/29/04	1791170.5	1791170.5		0	89948	607377.2	697324.7	no electrical power to site (no pumping).						
9/24/04	1791170.0	1791170.0		0	89948	607376.7	697324.2	new electrical power to site (restart pump RS5).						
9/28/04	1791275.2	1793186.5		1911	91859	607481.9	699340.7	2600	110	89	75	56	<0.5	RS5
9/30/04	1794233.0	1794233.0		0	91859	608528.4	700387.2	8700	2600	100	450	240	15	T1
10/15/04	1794243.8	1794243.8		0	91859	608539.2	700398.0							
10/28/04	1800669.8	1800669.8		0	91859	614965.2	706824.0							
11/5/04	1805236.0	1805236.0		0	91859	619531.4	711390.2							
11/19/04	1813980.8	1813980.8		0	91859	628276.2	720135.0							
12/8/04	1826103.7	1826253.7		150	92009	640399.1	732407.9	<50	<0.5	<0.5	<0.5	<0.5	<0.5	RS5
12/30/04	1841818.0	1841818.0		0	92009	655963.4	747972.2							

ug/L micrograms per liter (parts per billion)
mg/L milligrams per liter (parts per million)
WESTERN GEO-ENGINEERS

< BELOW LABORATORY LOWER DETECTION LIMITS
mg/Kg milligrams per kilogram (parts per million)
TPHg TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE
MTBE METHYL TERTIARY BUTYL ETHER

* SAMPLED ON AUGUST 26, 1999
T1 Receptor Trench Well
RS5 Monitor Well RS5 (pumping well)

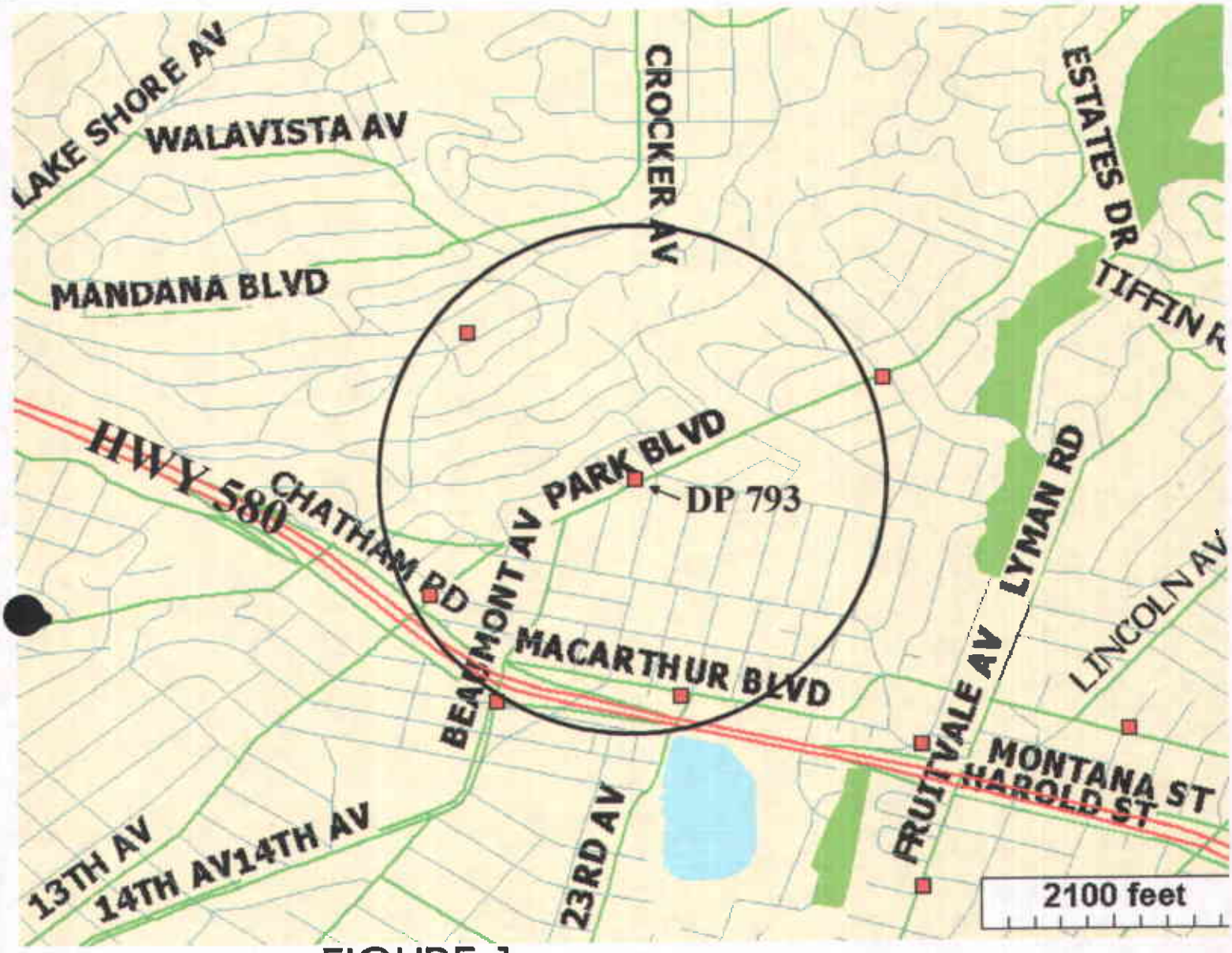


FIGURE 1
GEOTRACKER
AREA WELL & LUST MAP
DP 793
4035 PARK BLVD.
OAKLAND, CA

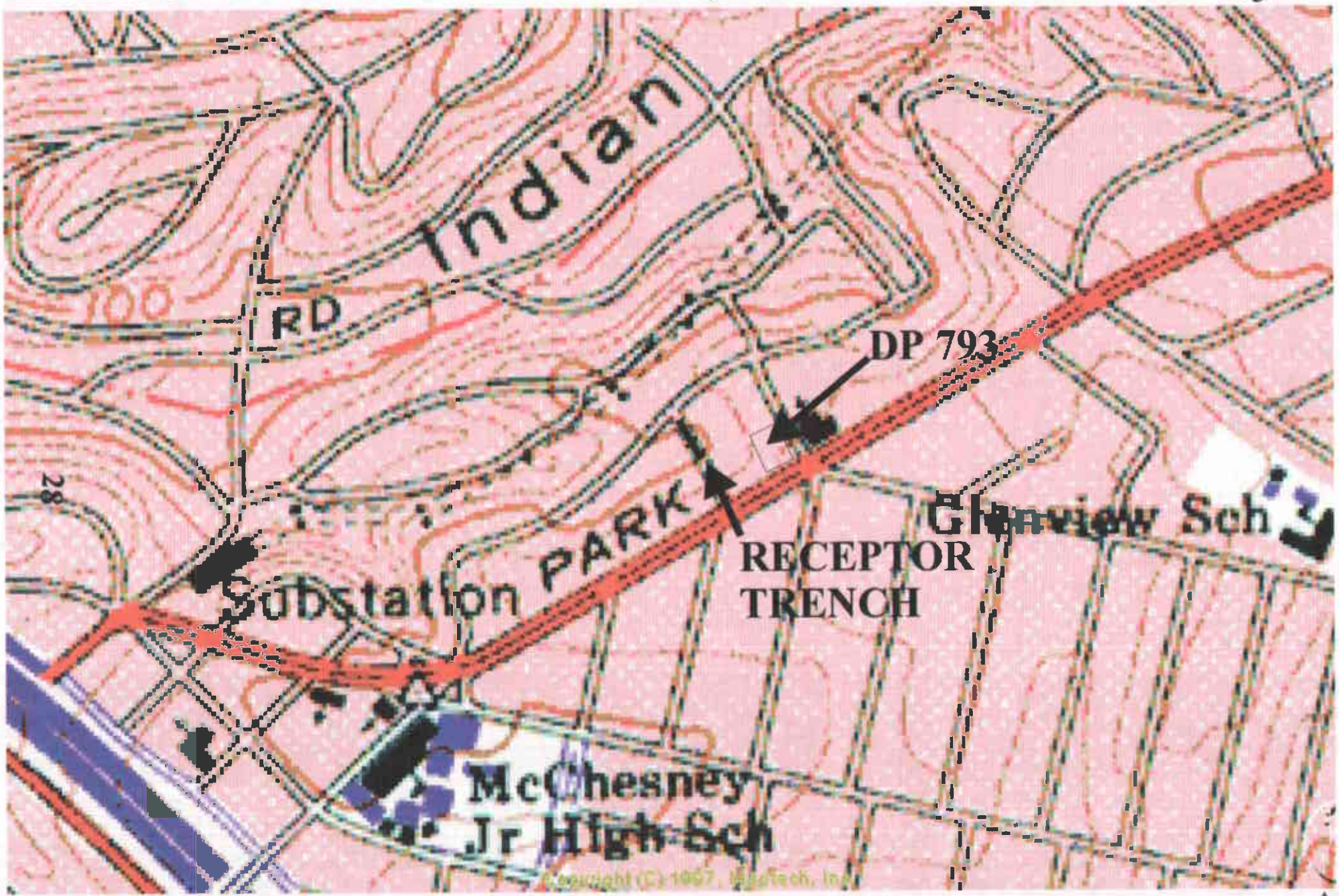


FIGURE 2
PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP

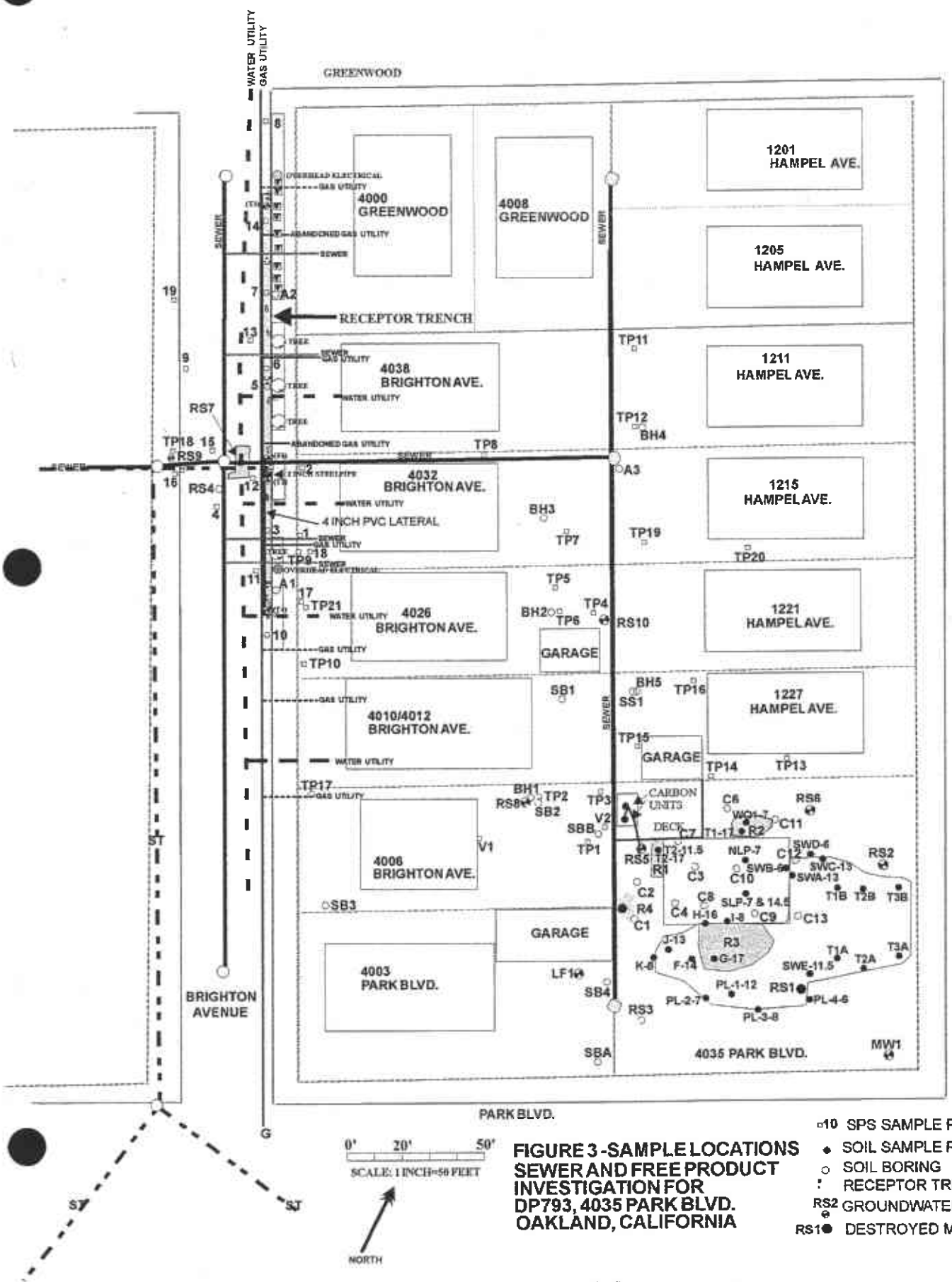
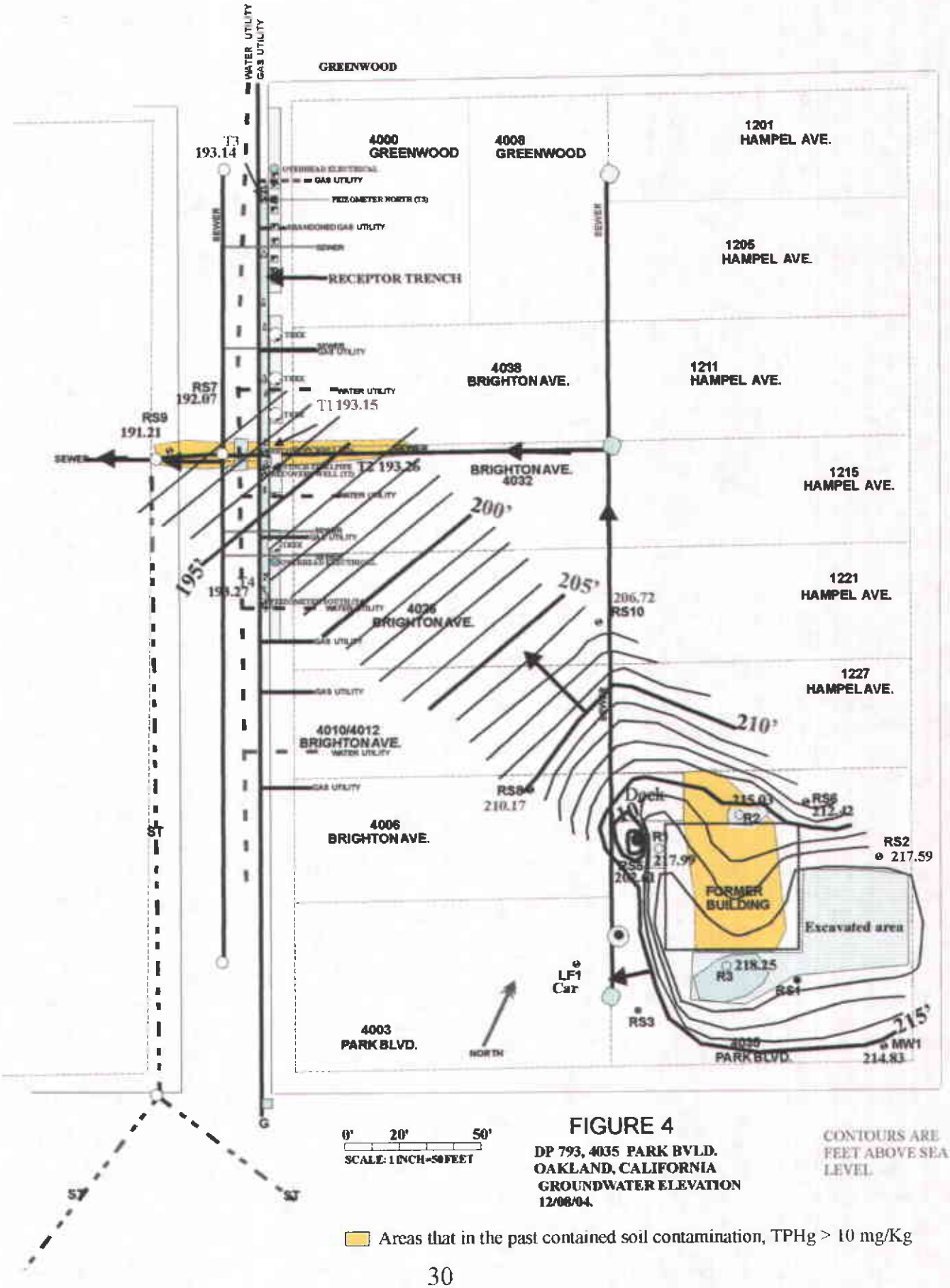


FIGURE 3 -SAMPLE LOCATIONS SEWER AND FREE PRODUCT INVESTIGATION FOR DP793, 4035 PARK BLVD. OAKLAND, CALIFORNIA

- ▫10 SPS SAMPLE POINT
- ● SOIL SAMPLE POINT
- ○ SOIL BORING
- : RECEPTOR TRENCH SAMPLE POIN
- RS2 GROUNDWATER MONITORING WEL
- RS1● DESTROYED MONITORING WELL



0' 20' 50'
SCALE: 1 INCH=50 FEET

FIGURE 4

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION
12/08/04.

CONTOURS ARE FEET ABOVE SEA LEVEL

Areas that in the past contained soil contamination, TPHg > 10 mg/Kg

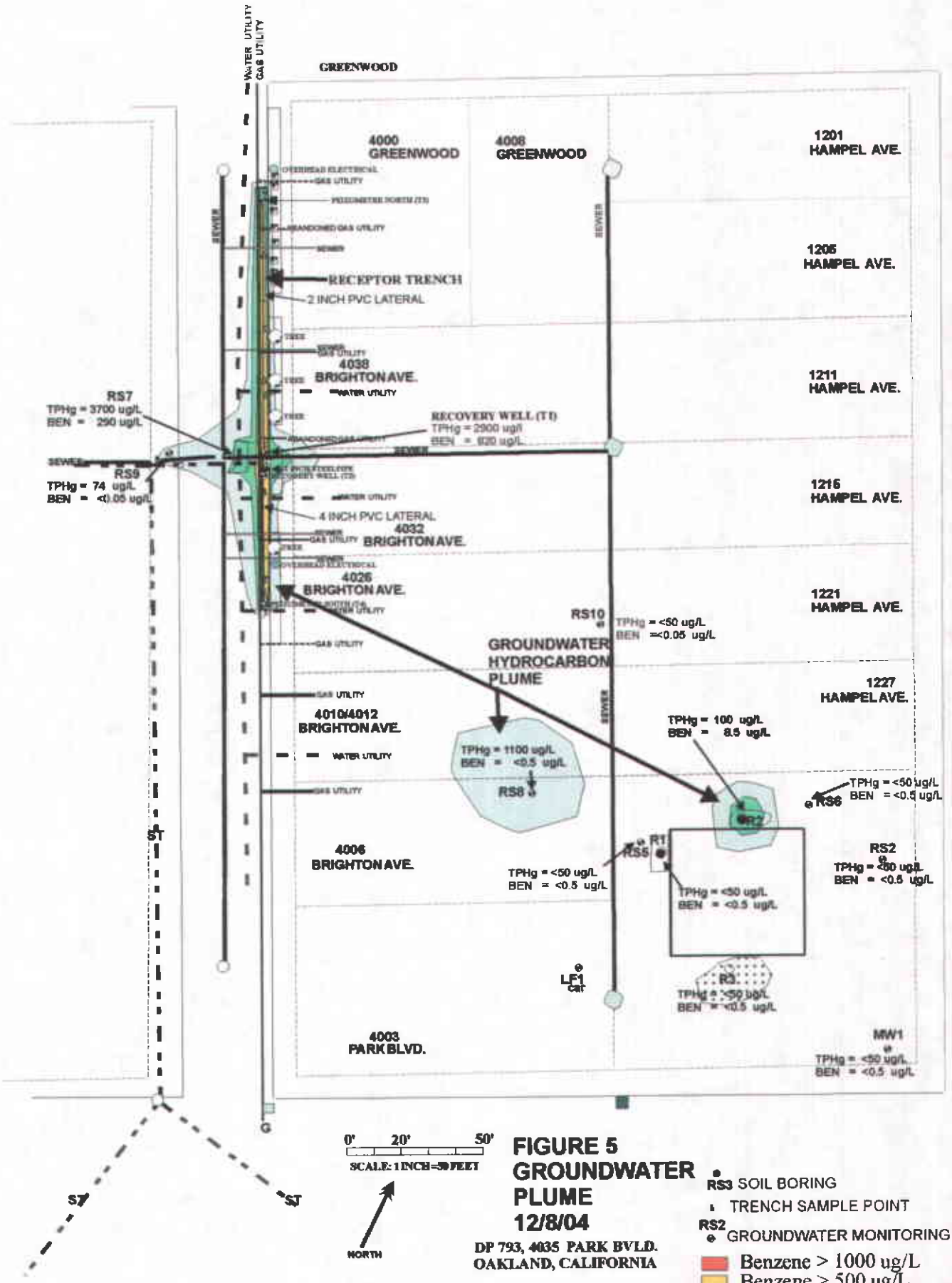


FIGURE 5
GROUNDWATER PLUME
12/8/04

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA

RS3 SOIL BORING
TRENCH SAMPLE POINT
RS2 GROUNDWATER MONITORING WELL

- Benzene > 1000 ug/L
- Benzene > 500 ug/L
- Benzene > 1 ug/L
- TPHg Groundwater Plume

APPENDIX A

METHODS AND PROCEDURES, QA/QC WITH FIELD NOTES

APPENDIX A.

METHODS AND PROCEDURES, QA/QC

This Appendix documents the specific methods, procedures, and materials used to collect and analyze ground water samples.

Gauging and Measuring Monitor Wells.

Prior to sampling a well, WEGE personnel obtain two measurements: the depth to ground water and the product thickness using a battery powered depth to water-product interface probe and or by using a specially designed bailer. The probe is lowered into the well casing until the instrument signals that the top of water has been reached. The distance from the top of water to the top of casing is read from the tape calibrated in 0.01 foot intervals for accuracy to 0.01 foot, that is attached to the probe. The measured distance is subtracted from the established elevation at the top of casing to determine the elevation of ground water with respect to mean sea level.

The probe is washed with TSP and rinsed in distilled water before each measurement. WEGE has designed and built bailers that will collect a sample of the contents of a well to show the exact thickness of any floating product.

Purging Standing Water from Monitor Wells

If no product is present, WEGE personnel purge the well. This is accomplished by removing ground water from the well until the water quality parameters (temperature, pH, and conductivity) stabilize, or until the well is emptied of water. Periodic measurements of ground water temperature, pH, and conductivity were taken with a Hydac Monitor or other meter and recorded along with the volume of ground water removed from the well. Purging is done by one or more methods singularly or in combination. Bailers, pneumatic or electric sample pumps, or vacuum pump tanks or trucks may be used. The usual amount of water removed is three well volumes. The water collected during purging is either safely stored onsite for later disposition, transported to an approved onsite or offsite sewer discharge system, or an approved onsite or offsite treatment system.

Collection of Water Sample for Analysis

The well is allowed to recover after purging and a ground water sample is collected. A fresh bailer is used to collect enough water for the requirements of the laboratory for the analyses needed or required. The water samples are decanted from the bailer into the appropriate number and size containers. These containers are furnished pre-cleaned to exact EPA protocols, with and without preservatives added, by the analytical laboratory or a chemical supply company. The bottles are filled, with no headspace, and then capped with plastic caps with teflon liners.

The vials or bottles containing the ground water samples are labeled with site name, station, date, time, sampler, and analyses to be performed, and documented on a chain of custody form. They were placed in ziplock bags and stored in a chest cooled to 4°C with ice. The preserved samples are chain of custody delivered to the chosen laboratory.

Analytical Results

TPH is the abbreviations used for Total Petroleum Hydrocarbons used by the laboratories for water and soil analyses. The letter following TPH indicates a particular distinction or grouping for the results. The letters "g", "d", "k", or "o" indicates gasoline, diesel, kerosene, or oil, respectively, ie. TPH-d for diesel range TPH.

BTEX or MTBE are acronyms or abbreviations used for Benzene, Toluene, Ethylbenzene and all of the Xylenes (BTEX) and Methyl Tertiary Butyl Ether (MTBE), respectively.

MBTEX is the designation for the combination of the above five compounds.

The less than symbol, <, used with a "parts per value" indicates the lower detection limit for a given analytical result and the level, if present, of that particular analyte is below or less than that lower detection limit.

Other abbreviations commonly used are ppm, ppb, mg/Kg, ug/Kg, ml/l and ul/l are parts per million, parts per billion, milligrams per kilogram, micrograms per kilogram, milliliters per liter, microliters per liter, respectively.

Chain of Custody Documentation

All water samples that are collected by WEGE and transported to a certified analytical laboratory are accompanied by chain-of-custody (COC) documentation. This documentation is used to record the movement and custody of a sample from collection in the field to final analysis and storage. Samples to be analyzed at the certified laboratory were logged on the COC sheet provided by the laboratory. The same information provided on the sample labels (site name, sample location, date, time, and analysis to be performed) is also noted on the COC form. Each person relinquishing custody of the sample set signs the COC form indicating the date and time of the transfer to the recipient. A copy of the COC follows the samples or their extracts throughout the laboratory to aid the analyst in identifying the samples and to assure analysis within holding times.

Copies of the COC documentation are included with the laboratory results in Appendix B of this report.

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004**
WELL ID# **MW-01**
CASING ELEVATION, IN FEET **229.5**
CASING TOTAL DEPTH, IN FEET **18.32**
CASING DIAMETER IN INCHES **2"**
DEPTH TO TOP OF FLUID 14.67

DEPTH TO TOP OF WATER
TOP OF WATER ELEVATION 214.83
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 4.0
G/L PURGE ONE CASING VOLUME 2.5 gal
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE ~~GPM~~/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1220			3.0	22.3	7.10	359	179		clear no odor
1225			6.0	22.3	7.09	361	180		

FINAL VOLUME PURGED 6 gal
TIME SAMPLED 1225
SAMPLE ID# **MW-01**
NOTES

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004** START TIME
WELL ID# **RS-02** SAMPLE BY **CONVERSE**
CASING ELEVATION, IN FEET **227.39** WATER COLUMN, IN FEET 8.6
CASING TOTAL DEPTH, IN FEET **18.40** G/L PURGE ONE CASING VOLUME 21.5?
CASING DIAMETER IN INCHES **4"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
DEPTH TO TOP OF FLUID 9.80 2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
DEPTH TO TOP OF WATER 9.80 FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
TOP OF WATER ELEVATION FREE PHASE PRODUCT THICKNESS
PUMP TYPE **GRUNDFOS REDIFLOW 2** PUMP RATE
DTW METER USED **SOLINST MODEL 122** pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE ~~GPM/~~ LPM	CUM. VOL ~~GAL.~~ LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1240			3.0	22.2	7.10	978	487		water clear
1243			15.0	23.3	7.10	890	428		no odor
1245			24.0	23.5	7.10	875	447		
1248			30.0	23.7	7.10	969	486		
1250			39.0	23.8	7.10	1003	500		
1252			45.0	22.8	7.10	1003	518		

FINAL VOLUME PURGED 45L
TIME SAMPLED 1255
SAMPLE ID# **RS-02**
NOTES

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004**
WELL ID# **RS-05**
CASING ELEVATION, IN FEET **227.61**
CASING TOTAL DEPTH, IN FEET **39.20**
CASING DIAMETER IN INCHES **4"**
DEPTH TO TOP OF FLUID **25.0**

DEPTH TO TOP OF WATER
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS 4 INCH**
DTW METER USED **SOLINST MODEL 122**

START TIME
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET
G/L PURGE ONE CASING VOLUME
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)

FINAL VOLUME PURGED 13.238

TIME SAMPLED 1332

SAMPLE ID# **RS-05**
NOTES

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004** START TIME
WELL ID# **RS-06** SAMPLE BY **CONVERSE**
CASING ELEVATION, IN FEET **227.22** WATER COLUMN, IN FEET 20.0
CASING TOTAL DEPTH, IN FEET **34.06** G/L PURGE ONE CASING VOLUME 12.5 ℓ
CASING DIAMETER IN INCHES **4"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
DEPTH TO TOP OF FLUID 14.8 2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
DEPTH TO TOP OF WATER 14.8 FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
TOP OF WATER ELEVATION FREE PHASE PRODUCT THICKNESS
PUMP TYPE **GRUNDFOS REDIFLOW 2** PUMP RATE
DTW METER USED **SOLINST MODEL 122** pH, Cond, Temp meter used **HANNA HI 99130**

.625
10
12500

TIME	INTAKE DEPTH	RATE ~~GPM~~/ LPM	CUM. VOL ~~GAL.~~ LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1421			3.0	19.7	7.10	1225	612		water cloudy
1423			12.0	20.4	7.10	1220	610		no odor
1425			18.0	21.0	7.10	1217	608		water clear
1430			27.0	19.8	7.10	1216	607		

FINAL VOLUME PURGED 32 ℓ
TIME SAMPLED 14:35
SAMPLE ID# **RS-06**
NOTES

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

-WEGE-
WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004**
WELL ID# **RS-07**
CASING ELEVATION, IN FEET **195.99**
CASING TOTAL DEPTH, IN FEET ____
CASING DIAMETER IN INCHES **4"**
DEPTH TO TOP OF FLUID 3.92

DEPTH TO TOP OF WATER 3.92
TOP OF WATER ELEVATION ____
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME ____
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 3.0
G/L PURGE ONE CASING VOLUME 1.95
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS ____
PUMP RATE ____
pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1045			3	14.6	7.10	440	206		water clear
1052			6	14.9	7.09	379	189		
1058			7	14.9	7.10	355	176		

FINAL VOLUME PURGED 7 gal

TIME SAMPLED 1058

SAMPLE ID# **RS-07**

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

NOTES ____

-WEGE-

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004** START TIME
WELL ID# **RS-08** SAMPLE BY **CONVERSE**
CASING ELEVATION, IN FEET **214.67** WATER COLUMN, IN FEET 10.0
CASING TOTAL DEPTH, IN FEET **14.5** G/L PURGE ONE CASING VOLUME 1.6F
CASING DIAMETER IN INCHES **2"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
DEPTH TO TOP OF FLUID 4.50 2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
DEPTH TO TOP OF WATER 4.50 FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
TOP OF WATER ELEVATION FREE PHASE PRODUCT THICKNESS
PUMP TYPE **DISPOSABLE BAILER** PUMP RATE
DTW METER USED **SOLINST MODEL 122** pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
11:35			3.0	14.4	7.09	477	238		[illegible] silty
11:4[illegible]			4.0	15.0	7.0	5[illegible]	248		no color

FINAL VOLUME PURGED 4.91 ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
TIME SAMPLED 1145 SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
SAMPLE ID# **RS-08** LABORATORY USED **KIFF Analytical**
NOTES

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**

DATE **December 8, 2004** START TIME 9:30

WELL ID# **RS-09** SAMPLE BY **CONVERSE**

CASING ELEVATION, IN FEET **195.63** WATER COLUMN, IN FEET 11.08

CASING TOTAL DEPTH, IN FEET **15.50** G/L PURGE ONE CASING VOLUME 1.83 1

CASING DIAMETER IN INCHES **2"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT

DEPTH TO TOP OF FLUID 4.42 2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT

4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)

DEPTH TO TOP OF WATER 4.42 FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION FREE PHASE PRODUCT THICKNESS

PUMP TYPE **GRUNDFOS REDIFLOW 2** PUMP RATE

DTW METER USED **SOLINST MODEL 122** pH, Cond, Temp meter used **HANNA HI 99130**

11.08
.165
5 5
6 6
1 1
1815

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1020			3.0	17.0	7.10	718	358		no odor, color clear - 5.16
1027			4.0	17.0	7.10	471	235		
1034			6.0	17.1	7.10	437	218		

FINAL VOLUME PURGED 6 gal ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**

TIME SAMPLED 10:10 SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**

SAMPLE ID# **RS-09** LABORATORY USED **KIFF Analytical**

NOTES Hand Bailed No Groes for Temp Stack

Kin Man Li
510 599 7000

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004** START TIME
WELL ID# **RS-10** SAMPLE BY **CONVERSE**
CASING ELEVATION, IN FEET **208.46** WATER COLUMN, IN FEET 8.0
CASING TOTAL DEPTH, IN FEET G/L PURGE ONE CASING VOLUME 1.3
CASING DIAMETER IN INCHES **2"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
DEPTH TO TOP OF FLUID 1.74 2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
DEPTH TO TOP OF WATER 1.74 FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
TOP OF WATER ELEVATION FREE PHASE PRODUCT THICKNESS
PUMP TYPE **DISPOSABLE BAILER** PUMP RATE
DTW METER USED **SOLINST MODEL 122** pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
11:10			3.0	14.7	7.16	295	148		water silty
11:16			4.0	14.8	7.10	292	146		

FINAL VOLUME PURGED 4.0 ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
TIME SAMPLED 11:17 SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
SAMPLE ID# **RS-10** LABORATORY USED **KIFF Analytical**
NOTES

T_1 1.96 T_4 4.21
T_2 2.04
T_3 9.24

-WEGE-

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004**
WELL ID# **R-01**
CASING ELEVATION, IN FEET **227.69**
CASING TOTAL DEPTH, IN FEET **16.80**
CASING DIAMETER IN INCHES **6"**
DEPTH TO TOP OF FLUID 9.70

DEPTH TO TOP OF WATER 9.70
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 7.0
G/L PURGE ONE CASING VOLUME 38.72
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4" = 2.46 L/FT 4 INCH = 0.65 gl/ FT
6" = 5.56 L/FT 6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used **HANNA HI 99130**

1.47 × 7 = 10.29
5.56 × 7 = 38.72

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL ~~GAL~~ LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1345			3.0	18.2	7.10	380	190		Light clear
1352			18.0	20.5	7.10	218	125		no odo
1357			31.0	20.5	7.10	223	110		Tr odor
1400			40.0	20.5	7.10	214	107		
1402			45.0	20.5	7.10	211	107		

FINAL VOLUME PURGED 45L
TIME SAMPLED 1408
SAMPLE ID# **R-01**
NOTES

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

-WEGE-
WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

5.56
4.6
3336
2224
25,576

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004**
WELL ID# **R-02**
CASING ELEVATION, IN FEET **227.28**
CASING TOTAL DEPTH, IN FEET **16.92**
CASING DIAMETER IN INCHES **6"**
DEPTH TO TOP OF FLUID **12.25**

DEPTH TO TOP OF WATER **12.25**
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET **4.6**
G/L PURGE ONE CASING VOLUME **25.58 L**
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4" = 2.46 L/FT 4 INCH = 0.65 gl/ FT
6" = 5.56 L/FT 6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL ~~GAL.~~ LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1447			3.0	20.1	7.10	1635	820		water clear
1453			15.0	21.6	7.10	1498	745		
1455			24.0	21.7	7.10	1470	730		water clear no odor
1500			36.0	21.8	7.10	1449	719		
1502			42.0	21.8	7.10	1439	720		

FINAL VOLUME PURGED **43 L**
TIME SAMPLED **1504**
SAMPLE ID# **R-02**
NOTES
EQ Blank 1520

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**

1.47
2.74
5.88
10.29
2.94
40.278

DATE **December 8, 2004** START TIME

WELL ID# **R-03** SAMPLE BY **CONVERSE**

CASING ELEVATION, IN FEET **227.25** WATER COLUMN, IN FEET 2.74

CASING TOTAL DEPTH, IN FEET **11.74** G/L PURGE ONE CASING VOLUME 4Q

CASING DIAMETER IN INCHES **6"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT

DEPTH TO TOP OF FLUID 9.0 4" = 2.46 L/FT 4 INCH = 0.65 gl/ FT

6" = 5.56 L/FT 6 INCH = 1.47 gl/FT)

DEPTH TO TOP OF WATER 9.0 FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION FREE PHASE PRODUCT THICKNESS

PUMP TYPE **GRUNDFOS REDIFLOW 2** PUMP RATE

DTW METER USED **SOLINST MODEL 122** pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL ~~GAL.~~ LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1305			3.0	16.9	7.10	297	150		weak odor
1311			12.0	18.5	7.10	326	155		no odor
1314			18.0	18.9	7.10	336	165		

FINAL VOLUME PURGED 20L

TIME SAMPLED 1315

SAMPLE ID# **R-03**

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**

SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**

LABORATORY USED **KIFF Analytical**

NOTES

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **December 8, 2004** START TIME
WELL ID# **RECEPTOR TRENCH T1, T2, T3, T4** SAMPLE BY **CONVERSE**
CASING ELEVATION, IN FEET **T2=195.30** WATER COLUMN, IN FEET
CASING TOTAL DEPTH, IN FEET **10** G/L PURGE ONE CASING VOLUME
CASING DIAMETER IN INCHES **4"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
DEPTH TO TOP OF FLUID ~~9.52~~ 2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
DEPTH TO TOP OF WATER FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
TOP OF WATER ELEVATION FREE PHASE PRODUCT THICKNESS
PUMP TYPE **GRUNDFOS REDIFLOW 2** PUMP RATE
DTW METER USED **SOLINST MODEL 122** pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
DTW									
T1	1.96								
T2	2.04								
T3	9.24								
T4	4.24								

FINAL VOLUME PURGED
TIME SAMPLED
SAMPLE ID# **T-01**
NOTES

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

-WEGE-
WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE _____
WELL ID# **LF-01**
CASING ELEVATION, IN FEET **226.59**
CASING TOTAL DEPTH, IN FEET **38.70**
CASING DIAMETER IN INCHES **2"**
DEPTH TO TOP OF FLUID _____

DEPTH TO TOP OF WATER _____
TOP OF WATER ELEVATION _____
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME _____
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET _____
G/L PURGE ONE CASING VOLUME _____
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
2" = 0.625 L/FT 4 INCH = 0.65 gl/ FT
4" = 2.46 L/FT 6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS _____
PUMP RATE _____
pH, Cond, Temp meter used **HANNA HI 99130**

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)

FINAL VOLUME PURGED _____

TIME SAMPLED _____

SAMPLE ID# **LF-01**
NOTES _____

ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
LABORATORY USED **KIFF Analytical**

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. ________ Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: UEGE 1386 E Beaman St Woodland

Phone No.: 530 668 5300 FAX No.:

Project Number: DP 793 P.O. No:

Project Name: DP793 1/4 lg

Project Address: Oakland

California EDF Report? ☑ Yes ☐ No

Recommended but not mandatory to complete this section:
Sampling Company Log Code: . . .
Global ID: . . . .
EDF Deliverable To (Email Address):

Sampler Signature: G Converse

Sample Designation	Date	Time	40 ml VOA	SLEEVE	HCl	HNO_3	ICE	NONE	WATER	SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH-Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
R 01	12-8-04	1408	3		✓		✓		✓						✓									1wk	
R 02		1504																							
R 03		1315																							
MW 01		1228																							
RS 02		1255																							
RS 05		1332																							
RS 06		1438																							
RS 07		1058																							
RS 08		1145																							
RS 09		1020																							

Relinquished by: G Converse Date: 12-8-04 Time: 1800 Received by:

Relinquished by: Date: Time: Received by:

Relinquished by: Date: 120804 Time: 1800 Received by Laboratory: [illegible] Kiff Analytical

Remarks:

Bill to: UEGE

Distribution: White - Lab, Pink - Originator

Forms/coc 121001 fho

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. _____ Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Connie

Company/Address:

Phone No.: FAX No.:

Project Number: DP793

P.O. No:

Project Name: DP793 114 St

Project Address:

California EDF Report? ☑ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: . . . .

Global ID: . . . . . .

EDF Deliverable To (Email Address):

Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Analysis Request: BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
RS-10	12-8-04	11:17	3		1		✓								✓									4	
T1	"	10:20	3		"		"								"									"	
EB	"	15:20	3		"		"								"									"	

	Date	Time		
Relinquished by:	12-8-04	1700	Received by:	Remarks:
Relinquished by:			Received by:	
Relinquished by:	12/8/04	1800	Received by Laboratory:	Bill to: Wase

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 9-28-04

REASON FOR SITE VISIT Pump trench 1/4 ly Sampling

TIME	TRENCH WELL T1 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4 PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS Hook up 100 ft power cord to RS-5 Controller

ELECTRIC METER ~~[illegible]~~ 00004

SAMPLE(S) Sewer discharge 1/4 ly

WATER METER T1 1793186.5 / 1791275.2 RS5 / 1911.3

SITE MONITORED BY: Cenzano

WATER TREATMENT

T1 FLOW RATE 6 GALLONS/ 1 MINUTES
T2 FLOW RATE ___ GALLONS/ ___ MINUTES

GALLONS PURGED ______
GALLONS PURGED ______

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

PRESSURE WATER CARBONS #1 6.5 PSI, #2 5.0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS good

CONDITION OF COMPOUND COMMENTS Clean

Acceptance of water phase carbon units only if completely flooded with water ______yes ______no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition ______yes ______no - return to carbon manufacture

9/30/04 1794233.0
− 1793186.5
1046.5

Berm full of water
turn pumping system off
#1 Carbon must have leak at base

10/15/04

13:30 - 15:30

1942438 meter

change out number

1 carbon replaced

move #2 to #1 position

add new carbon, restarted pump only pumped for short spell unplugged and restarted only pumped for short period

U.S. FILTER WESTATES

FIELD SERVICE REPORT

DATE: 10/15/04

LEAD TECH: _____ SERVICE TECH: _____ TIME: 2:00

BILL TO: Wickland Properties JOB#: 1994108

JOB SITE: Present Petroleum
4035 Park Blvd
Oakland, CA 94602

SPECIAL INST.: Deliver 1 AC830 and AC48C-C
Pickup 2 spent carbon drums

SITE CONTACT: Ray Butler

PHONE#: 530-668-5300

CELL PHONE#: _____

Carbon Lugs

START TIME: 0530

LOADING @ 1250 TO 1315
SCH LV TIME 1245 YARD OUT 1315

ARRIVAL 1400

DEPART _____

END TIME _____

PROCEED TO OTHER JOB
☐ YES ☐ NO
SITE NAME _____
CITY _____
JOB# _____

☐ SERVICE
☒ PICK-UP
☒ DELIVERY
☐ REWORK
☐ WARRANTY
☐ SAMPLE

FILTERS SERVICED

QTY _____ AQUA SCRUB 1000 2000
QTY _____ VENT SCRUB 1000 2000
QTY _____ P.V. 1000 2000
QTY _____ OTHER: _____

CARBON USED

QTY _____ ACRS/AC830: _____
QTY _____ VCRS/VC48C: _____
QTY _____ AC1230C: _____
QTY 200 OTHER: ACVS-C 3238 Lot 4053

CONTAINERS USED:

QTY _____ DRUMS
QTY _____ TOTE BINS
QTY _____ ROLL-OFFS
QTY _____ OTHER: _____

SHIPPING INFORMATION:

PROFILE NO.: WW0257AC Waste
CONTAINERS LEFT ON SITE: ☐ YES ☐ NO
MANIFEST DOC.#: _____

SAMPLE ANALYTICAL:

EPA 8015-TPH VM/XM TCLP
EPA 8010/8020 EPA8260 11RCRA
OTHER: _____

EQUIPMENT RENTED:

RENTAL COMPANY: _____
RELEASE NO.: _____
PHONE #: _____

SERVICE TECH COMMENTS: 1) Arrived on site Client Here. 2) Informed Driver 3) ~~[illegible]~~ 4) ~~[illegible]~~ 5) ~~[illegible]~~ 3) Unable to Loop Spent. Drums Rushed out Concerned About Drum Rupture En transport. Discussed options W/ Client. Departed

CUSTOMER COMMENTS: _____

CUSTOMER SIGNATURE: _____ DATE: _____

FORMER DESERT PETROLEUM SITE DP 793

4036 PARK ELVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 10-28-04

REASON FOR SITE VISIT weekly O&M

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS

ELECTRIC METER 000165

SAMPLE(s

WATER METER 18006698

SITE MONITORED BY: Converse

WATER TREATMENT

T1 FLOW RATE ___ GALLONS/____MINUTES
T2 FLOW RATE ___ GALLONS/____MINUTES

GALLONS PURGED
GALLONS PURGED

	WASTEWATER	
	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

PRESSURE WATER CARBONS #1_____PSI, #2_____PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS

CONDITION OF COMPOUND COMMENTS

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition_____yes _____no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 11-9-04

REASON FOR SITE VISIT weekly check

TIME	TRENCH WELL T1 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4 PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS

ELECTRIC METER 00027

SAMPLE(S) none

WATER METER 1805236.6

SITE MONITORED BY: [illegible signature]

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES
T2 FLOW RATE ____ GALLONS/____ MINUTES

GALLONS PURGED ________
GALLONS PURGED ________

PRESSURE WATER CARBONS #1 ____ PSI, #2 ____ PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS Good

CONDITION OF COMPOUND COMMENTS Good

[illegible handwriting]

Acceptance of water phase carbon units only if completely flooded with water ____ yes ____ no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition ____ yes ____ no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 11-12-04

REASON FOR SITE VISIT weekly o/m

TIME	TRENCH WELL T1 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3 PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4 PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS

ELECTRIC METER 00032

WATER METER 1809713.5

SAMPLE(S)

SITE MONITORED BY Converse

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/______ MINUTES
T2 FLOW RATE ____ GALLONS/______ MINUTES

GALLONS PURGED ____________
GALLONS PURGED ____________

PRESSURE WATER CARBONS #1 3.1 PSI, #2 0.0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS ____________

CONDITION OF COMPOUND COMMENTS System pumping

Acceptance of water phase carbon units only if completely flooded with water ______ yes ______ no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition ______ yes ______ no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 11-19-04

REASON FOR SITE VISIT weekly o&m

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS RS-5 1gpm

ELECTRIC METER 00038

WATER METER 1813980.8

SAMPLE(s) None

SITE MONITORED BY: Conway

	WASTEWATER	
	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/_____MINUTES
T2 FLOW RATE ____ GALLONS/_____MINUTES

GALLONS PURGED_____
GALLONS PURGED_____

PRESSURE WATER CARBONS #1 1.75 PSI, #2 0.0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS_____

CONDITION OF COMPOUND COMMENTS_____

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM. DAILY 2880 GALLONS

DATE 11/24/04

REASON FOR SITE VISIT Weekly O&M

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS

ELECTRIC METER 00043

WATER METER 1816633.2

SAMPLE(S) none

SITE MONITORED BY Ron Bull

	WASTEWATER	
	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ___ GALLONS/___ MINUTES
T2 FLOW RATE ___ GALLONS/___ MINUTES

GALLONS PURGED ___
GALLONS PURGED ___

PRESSURE WATER CARBONS #1 15 PSI, #2 0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS good shape

CONDITION OF COMPOUND COMMENTS clean

Acceptance of water phase carbon units only if completely flooded with water ___yes ___no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition ___yes ___no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 12-6-04

REASON FOR SITE VISIT _____

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2

PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3

PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4

PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS _____

ELECTRIC METER 00057

WATER METER 1824769.5 (6253.7, 1484.2)

SAMPLE(S _____

SITE MONITORED BY: Contractor

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES
T2 FLOW RATE ____ GALLONS/____ MINUTES

GALLONS PURGED _____
GALLONS PURGED _____

PRESSURE WATER CARBONS #1 4 PSI, #2 0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS _____

CONDITION OF COMPOUND COMMENTS _____

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition_____yes _____no - return to carbon manufacture

12-9-04 1826253.7

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 12-16-04

REASON FOR SITE VISIT weekly o/m of treatment system

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW.	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS RSS pump maintenance @ 2gpm

ELECTRIC METER 00068

SAMPLE(s) _____

WATER METER 1831277.5
24764.5
6708.0

SITE MONITORED BY: Concorde

WASTEWATER	
INFLUENT	EFFLUENT

TIME
pH
Conductivity
Temperature
PID

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES
T2 FLOW RATE ____ GALLONS/____ MINUTES

GALLONS PURGED _____
GALLONS PURGED _____

PRESSURE WATER CARBONS #1 3.5 PSI, #2 00 PSI

WATER PHASE CARBON UNITS INSPECTION COMMENTS good

CONDITION OF COMPOUND COMMENTS good

Acceptance of water phase carbon units only if completely flooded with water _____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 12-30-0?

REASON FOR SITE VISIT weekly sewer discharge

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS

ELECTRIC METER 0003 5?

WATER METER 184181.8

SAMPLE(S) INF Out

SITE MONITORED BY: Ray Bubbles

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES
T2 FLOW RATE ____ GALLONS/____ MINUTES

GALLONS PURGED ________
GALLONS PURGED ________

PRESSURE WATER CARBONS #1________PSI, #2________PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS ________

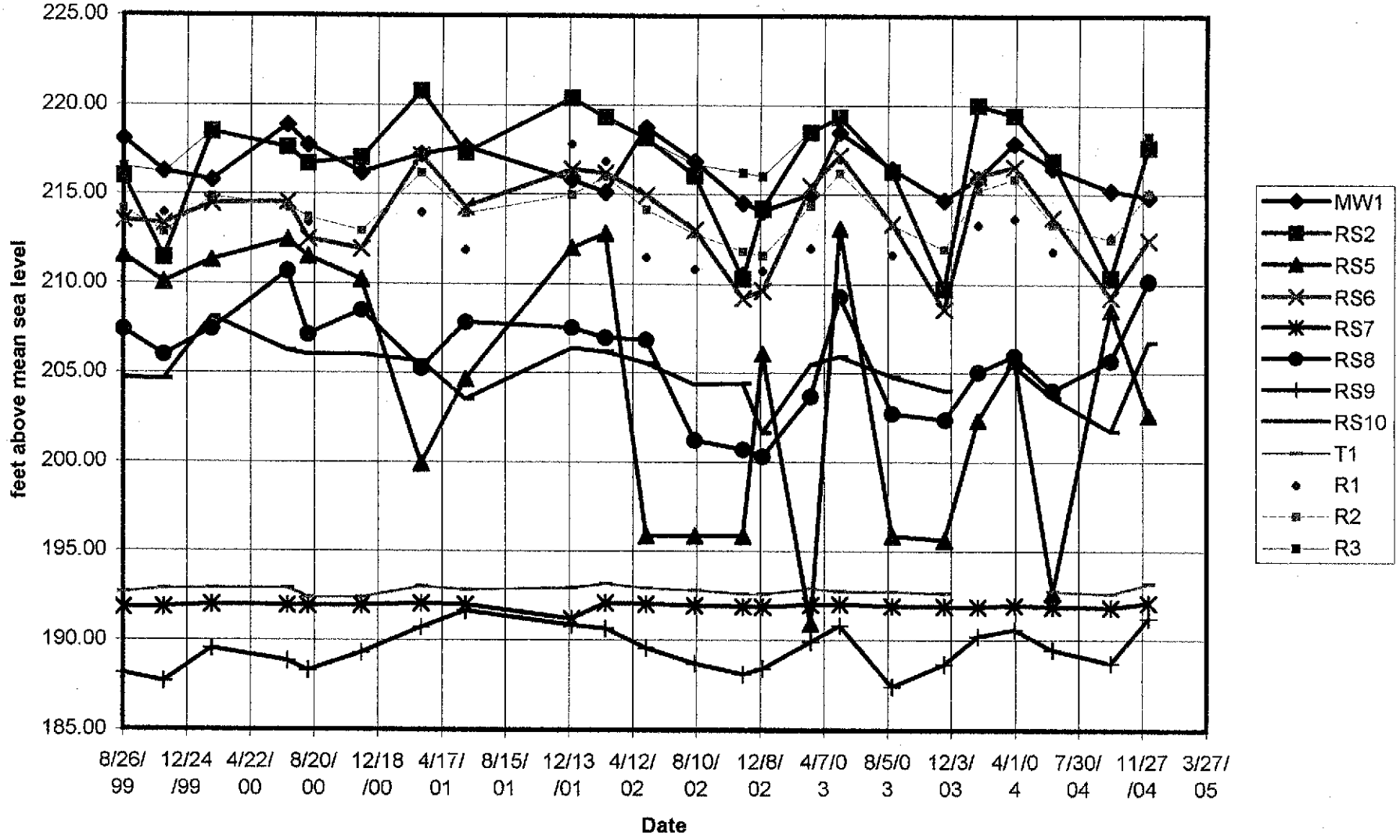
CONDITION OF COMPOUND COMMENTS ________

Acceptance of water phase carbon units only if completely flooded with water______yes ______no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition ______yes ______no - return to carbon manufacture

APPENDIX B.

GROUNDWATER ELEVATION CHART

Groundwater Elevation



KIFF ANALYTICAL LLC

Report Number : 41380
Date : 12/14/2004

George Converse
Western Geo-Engineers
1386 East Beamer Street
Woodland, CA 95776

Subject : 13 Water Samples
Project Name : DP793 1/4ly
Project Number : DP 793

Dear Mr. Converse,

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

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

Sincerely,

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 41380
Date : 12/14/2004

Project Name : **DP793 1/4ly**
Project Number : **DP 793**

Sample : **R 01** Matrix : Water Lab Number : 41380-01
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/11/2004

Sample : **R 02** Matrix : Water Lab Number : 41380-02
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**8.5**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**5.0**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**100**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	12/11/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41380
Date : 12/14/2004

Project Name : **DP793 1/4ly**
Project Number : **DP 793**

Sample : **R 03** Matrix : Water Lab Number : 41380-03
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	12/11/2004

Sample : **MW 01** Matrix : Water Lab Number : 41380-04
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	12/11/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41380
Date : 12/14/2004

Project Name : **DP793 1/4ly**
Project Number : **DP 793**

Sample : **RS 02** Matrix : Water Lab Number : 41380-05
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	12/11/2004

Sample : **RS 05** Matrix : Water Lab Number : 41380-06
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	96.5		% Recovery	EPA 8260B	12/11/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41380
Date : 12/14/2004

Project Name : **DP793 1/4ly**
Project Number : **DP 793**

Sample : **RS 06** Matrix : Water Lab Number : 41380-07
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	12/11/2004

Sample : **RS 07** Matrix : Water Lab Number : 41380-08
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**290**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**18**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**130**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**190**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**0.56**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**3700**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	12/11/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41380
Date : 12/14/2004

Project Name : **DP793 1/4ly**
Project Number : **DP 793**

Sample : **RS 08** Matrix : Water Lab Number : 41380-09
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**0.66**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**1100**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	12/11/2004

Sample : **RS 09** Matrix : Water Lab Number : 41380-10
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/13/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/13/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/13/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/13/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/13/2004
TPH as Gasoline	**74**	50	ug/L	EPA 8260B	12/13/2004
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	12/13/2004
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/13/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41380
Date : 12/14/2004

Project Name : **DP793 1/4ly**
Project Number : **DP 793**

Sample : **RS-10** Matrix : Water Lab Number : 41380-11
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	96.1		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	12/11/2004

Sample : **T1** Matrix : Water Lab Number : 41380-12
Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**820**	1.5	ug/L	EPA 8260B	12/12/2004
Toluene	**32**	1.5	ug/L	EPA 8260B	12/12/2004
Ethylbenzene	**14**	1.5	ug/L	EPA 8260B	12/12/2004
Total Xylenes	**47**	1.5	ug/L	EPA 8260B	12/12/2004
Methyl-t-butyl ether (MTBE)	**6.9**	1.5	ug/L	EPA 8260B	12/12/2004
TPH as Gasoline	**2900**	200	ug/L	EPA 8260B	12/12/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/12/2004
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/12/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 41380

Date : 12/14/2004

Project Name : **DP793 1/4ly**

Project Number : **DP 793**

Sample : **EB** Matrix : Water Lab Number : 41380-13

Sample Date :12/8/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	12/11/2004

Approved By: Joel Kiff

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

Report Number : 41380

Date : 12/14/2004

QC Report : Method Blank Data

Project Name : **DP793 1/4ly**

Project Number : **DP 793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	98.6		%	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	12/11/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/13/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/13/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/13/2004
Toluene - d8 (Surr)	98.1		%	EPA 8260B	12/13/2004
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	12/13/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	101		%	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	12/11/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/10/2004
Toluene - d8 (Surr)	101		%	EPA 8260B	12/10/2004
4-Bromofluorobenzene (Surr)	96.9		%	EPA 8260B	12/10/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	101		%	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	97.8		%	EPA 8260B	12/11/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/10/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/10/2004
Toluene - d8 (Surr)	97.4		%	EPA 8260B	12/10/2004
4-Bromofluorobenzene (Surr)	111		%	EPA 8260B	12/10/2004

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41380

Date : 12/14/2004

QC Report : Method Blank Data

Project Name : **DP793 1/4ly**

Project Number : **DP 793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/11/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/11/2004
Toluene - d8 (Surr)	98.9		%	EPA 8260B	12/11/2004
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	12/11/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41380

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 12/14/2004

Project Name : **DP793 1/4ly**

Project Number : **DP 793**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	41380-13	<0.50	40.0	40.0	41.0	40.0	ug/L	EPA 8260B	12/11/04	102	100	2.50	70-130	25
Toluene	41380-13	<0.50	40.0	40.0	41.0	39.2	ug/L	EPA 8260B	12/11/04	102	98.1	4.45	70-130	25
Tert-Butanol	41380-13	10	200	200	203	209	ug/L	EPA 8260B	12/11/04	96.4	99.7	3.36	70-130	25
Methyl-t-Butyl Ether	41380-13	<0.50	40.0	40.0	38.0	38.0	ug/L	EPA 8260B	12/11/04	95.0	94.9	0.138	70-130	25
Benzene	41416-01	2.5	40.0	40.0	43.9	42.4	ug/L	EPA 8260B	12/13/04	103	99.7	3.68	70-130	25
Toluene	41416-01	11	40.0	40.0	53.0	51.5	ug/L	EPA 8260B	12/13/04	105	101	3.62	70-130	25
Tert-Butanol	41416-01	<5.0	200	200	196	196	ug/L	EPA 8260B	12/13/04	98.2	98.1	0.136	70-130	25
Methyl-t-Butyl Ether	41416-01	<0.50	40.0	40.0	38.8	38.3	ug/L	EPA 8260B	12/13/04	97.0	95.7	1.36	70-130	25
Benzene	41393-03	<0.50	40.0	40.0	39.6	38.7	ug/L	EPA 8260B	12/11/04	98.9	96.8	2.16	70-130	25
Toluene	41393-03	<0.50	40.0	40.0	40.8	39.4	ug/L	EPA 8260B	12/11/04	102	98.6	3.51	70-130	25
Tert-Butanol	41393-03	<5.0	200	200	203	200	ug/L	EPA 8260B	12/11/04	101	100	1.24	70-130	25
Methyl-t-Butyl Ether	41393-03	3.8	40.0	40.0	48.6	47.8	ug/L	EPA 8260B	12/11/04	112	110	1.70	70-130	25
Benzene	41403-01	<0.50	40.0	40.0	39.2	37.8	ug/L	EPA 8260B	12/10/04	98.0	94.6	3.51	70-130	25
Toluene	41403-01	<0.50	40.0	40.0	40.8	39.4	ug/L	EPA 8260B	12/10/04	102	98.5	3.50	70-130	25
Tert-Butanol	41403-01	<5.0	200	200	201	199	ug/L	EPA 8260B	12/10/04	100	99.6	0.764	70-130	25
Methyl-t-Butyl Ether	41403-01	3.5	40.0	40.0	39.1	38.6	ug/L	EPA 8260B	12/10/04	89.0	87.7	1.54	70-130	25
Benzene	41402-01	<0.50	40.0	40.0	38.9	37.7	ug/L	EPA 8260B	12/11/04	97.3	94.2	3.24	70-130	25
Toluene	41402-01	<0.50	40.0	40.0	40.9	39.4	ug/L	EPA 8260B	12/11/04	102	98.5	3.71	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41380

Date : 12/14/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP793 1/4ly**

Project Number : **DP 793**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol	41402-01	<5.0	200	200	203	201	ug/L	EPA 8260B	12/11/04	102	101	0.993	70-130	25
Methyl-t-Butyl Ether	41402-01	<0.50	40.0	40.0	35.0	34.8	ug/L	EPA 8260B	12/11/04	87.5	86.9	0.751	70-130	25
Benzene	41374-01	<0.50	40.0	40.0	40.2	39.4	ug/L	EPA 8260B	12/10/04	100	98.5	2.05	70-130	25
Toluene	41374-01	<0.50	40.0	40.0	39.6	38.9	ug/L	EPA 8260B	12/10/04	98.9	97.3	1.58	70-130	25
Tert-Butanol	41374-01	<5.0	200	200	198	198	ug/L	EPA 8260B	12/10/04	99.2	99.3	0.0681	70-130	25
Methyl-t-Butyl Ether	41374-01	<0.50	40.0	40.0	38.3	38.4	ug/L	EPA 8260B	12/10/04	95.8	96.1	0.241	70-130	25
Benzene	41351-01	3.0	40.0	40.0	45.1	44.4	ug/L	EPA 8260B	12/11/04	105	104	1.50	70-130	25
Toluene	41351-01	<0.50	40.0	40.0	42.1	41.4	ug/L	EPA 8260B	12/11/04	105	104	1.60	70-130	25
Tert-Butanol	41351-01	6.4	200	200	215	209	ug/L	EPA 8260B	12/11/04	104	101	3.10	70-130	25
Methyl-t-Butyl Ether	41351-01	49	40.0	40.0	97.1	98.1	ug/L	EPA 8260B	12/11/04	119	122	2.00	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

QC Report : Laboratory Control Sample (LCS)

Report Number : 41380
Date : 12/14/2004

Project Name : **DP793 1/4ly**
Project Number : **DP 793**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/11/04	100	70-130
Toluene	40.0	ug/L	EPA 8260B	12/11/04	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/11/04	93.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/11/04	92.6	70-130
Benzene	40.0	ug/L	EPA 8260B	12/13/04	101	70-130
Toluene	40.0	ug/L	EPA 8260B	12/13/04	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/13/04	94.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/13/04	92.5	70-130
Benzene	40.0	ug/L	EPA 8260B	12/11/04	99.5	70-130
Toluene	40.0	ug/L	EPA 8260B	12/11/04	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/11/04	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/11/04	108	70-130
Benzene	40.0	ug/L	EPA 8260B	12/10/04	97.8	70-130
Toluene	40.0	ug/L	EPA 8260B	12/10/04	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/10/04	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/10/04	88.9	70-130
Benzene	40.0	ug/L	EPA 8260B	12/11/04	100	70-130

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

Approved By: Joel Kiff

Report Number : 41380

Date : 12/14/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP793 1/4ly**

Project Number : **DP 793**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	12/11/04	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/11/04	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/11/04	90.0	70-130
Benzene	40.0	ug/L	EPA 8260B	12/10/04	96.9	70-130
Toluene	40.0	ug/L	EPA 8260B	12/10/04	95.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/10/04	97.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/10/04	89.6	70-130
Benzene	40.0	ug/L	EPA 8260B	12/11/04	97.1	70-130
Toluene	40.0	ug/L	EPA 8260B	12/11/04	97.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/11/04	93.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/11/04	89.3	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 41380 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Conerise
Company/Address: UCGE 1386 E Beamer St Woodland
Phone No.: 530 668 5300 FAX No.:
Project Number: DP 793 P.O. No:
Project Name: DP 793 1/4 lg
Project Address: Oakland

California EDF Report? ☑ Yes ☐ No

Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature: George Conerise

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2)	TOTAL (X)	W.E.T. (X)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
R 01	12-8-04	1408	3		✓		✓		✓						✓												41380-01
R 02		1504																									-02
R 03		1315																									-03
MW 01		1228																									-04
RS 02		1255																									-05
RS 05		1372																									-06
RS 06		1438																									-07
RS 07		1058																									-08
RS 08		1145																									-09
RS 09		1010																									-10

Relinquished by:	Date	Time	Received by:
George Conerise	12-8-04	1822	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	12/8/04	1800	Fed Ex to Kiff Analytical

Remarks:

Bill to: UCGE

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 41380 Page 2 of 2

Project Contact (Hardcopy or PDF To): Conorle

Company/Address:

Phone No.: FAX No.:

Project Number: DP793 P.O. No.:

Project Name: DP793 1/4 lg

Project Address:

California EDF Report? ☑ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address):

Sampler Signature: [signature]

Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
RS-10	12-8-04	11:17	3		✓		✓								✓									1wk	-11
T1	"	10:20	3		"		"								"									"	-12
EB	"	15:30	3		"		"								"									"	-13

Relinquished by:	Date	Time	Received by:
[signature]	12 Dec	0900	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	120804	1800	[signature] Kiff Analytical

Remarks:

Bill to: Wage

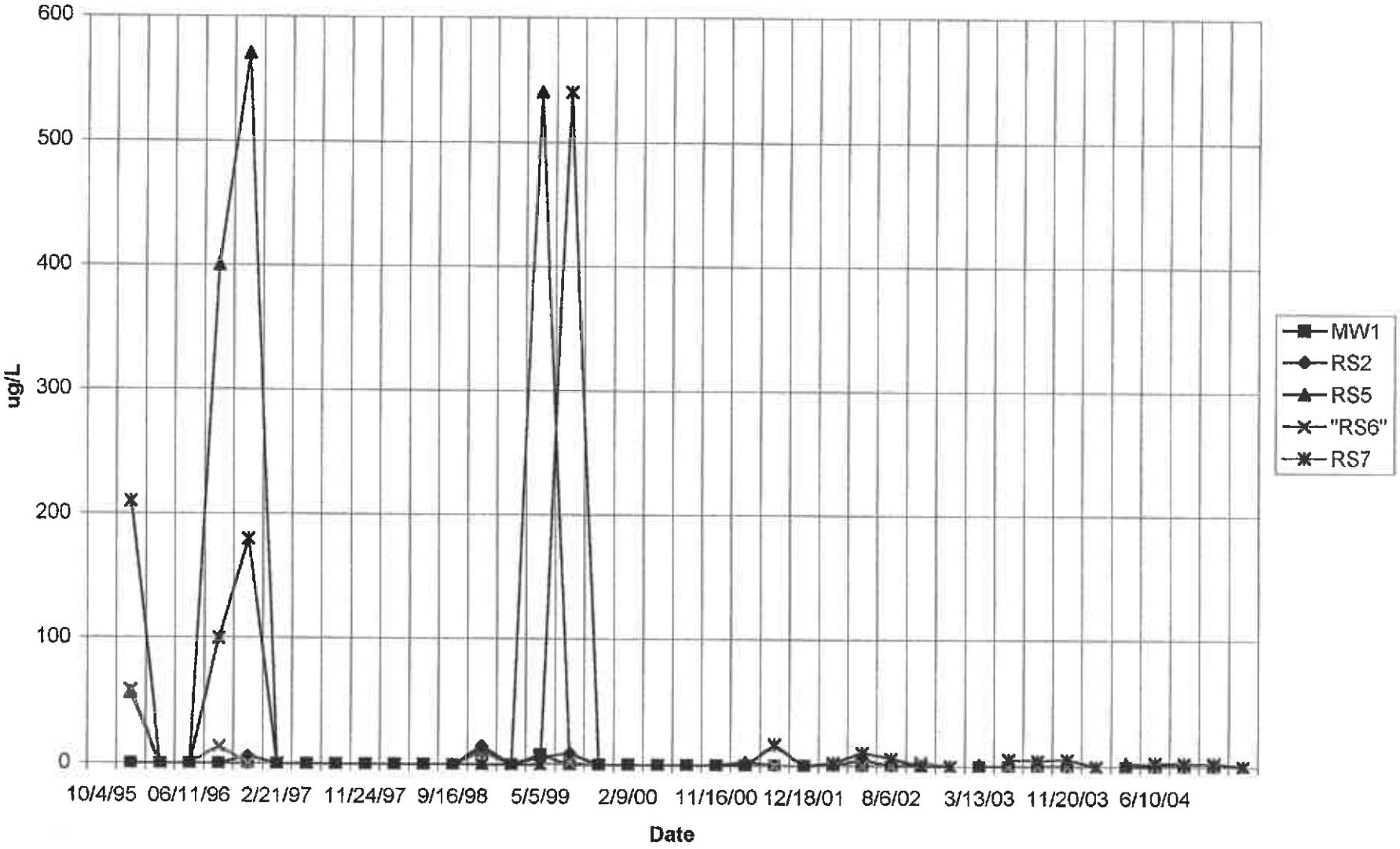
Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

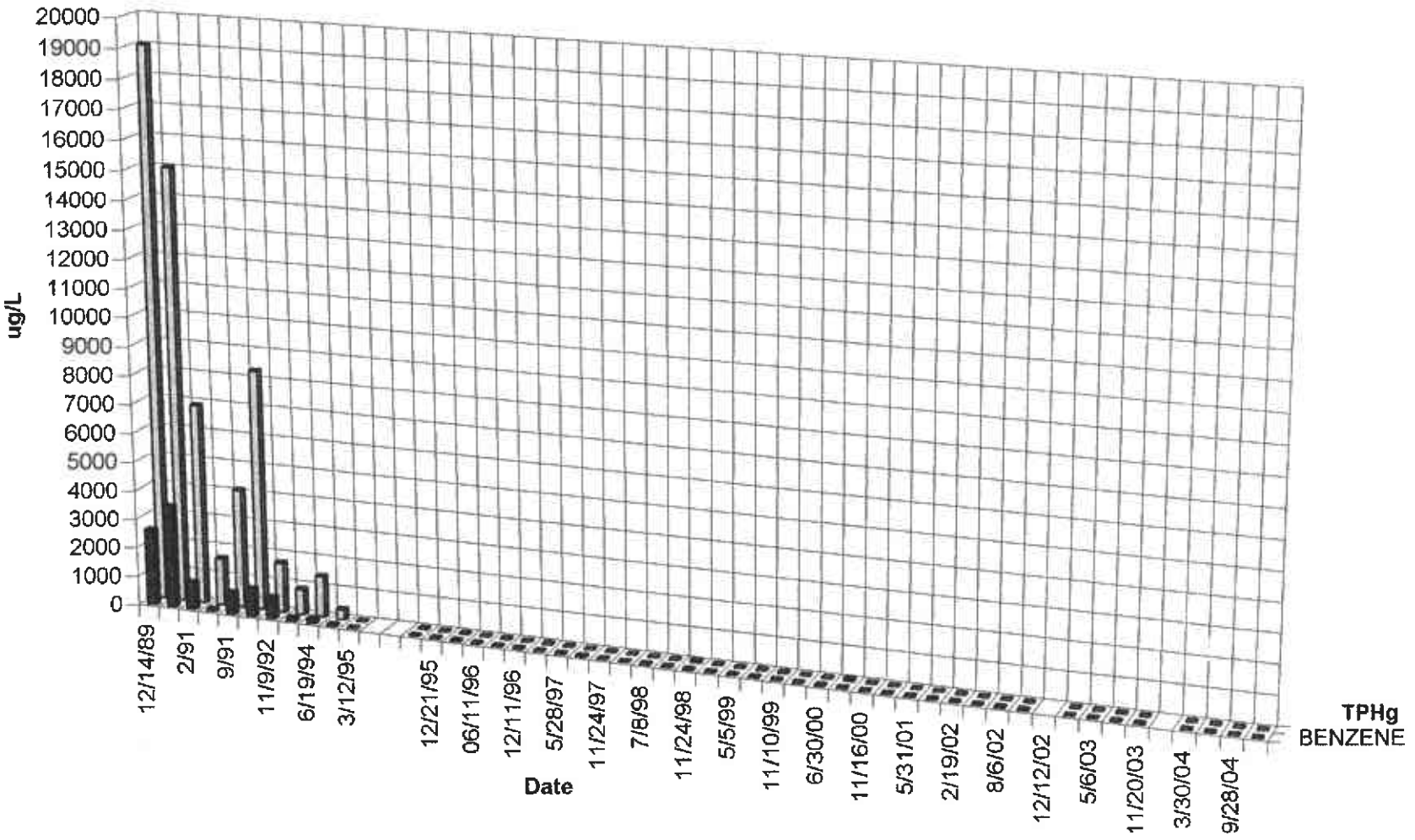
APPENDIX D.

MtBE, TPHg AND BENZENE CHARTS

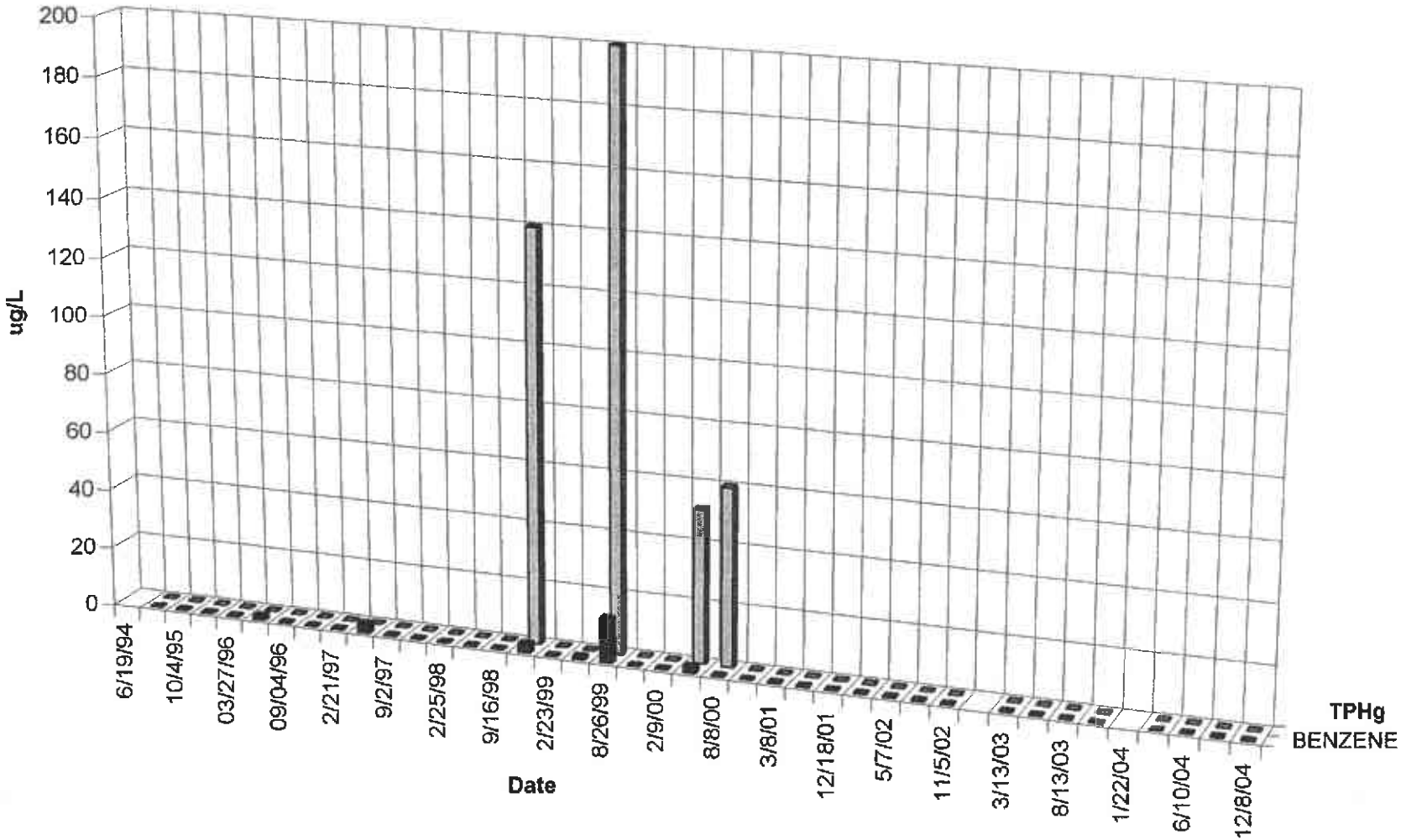
MTBE IN WELLS



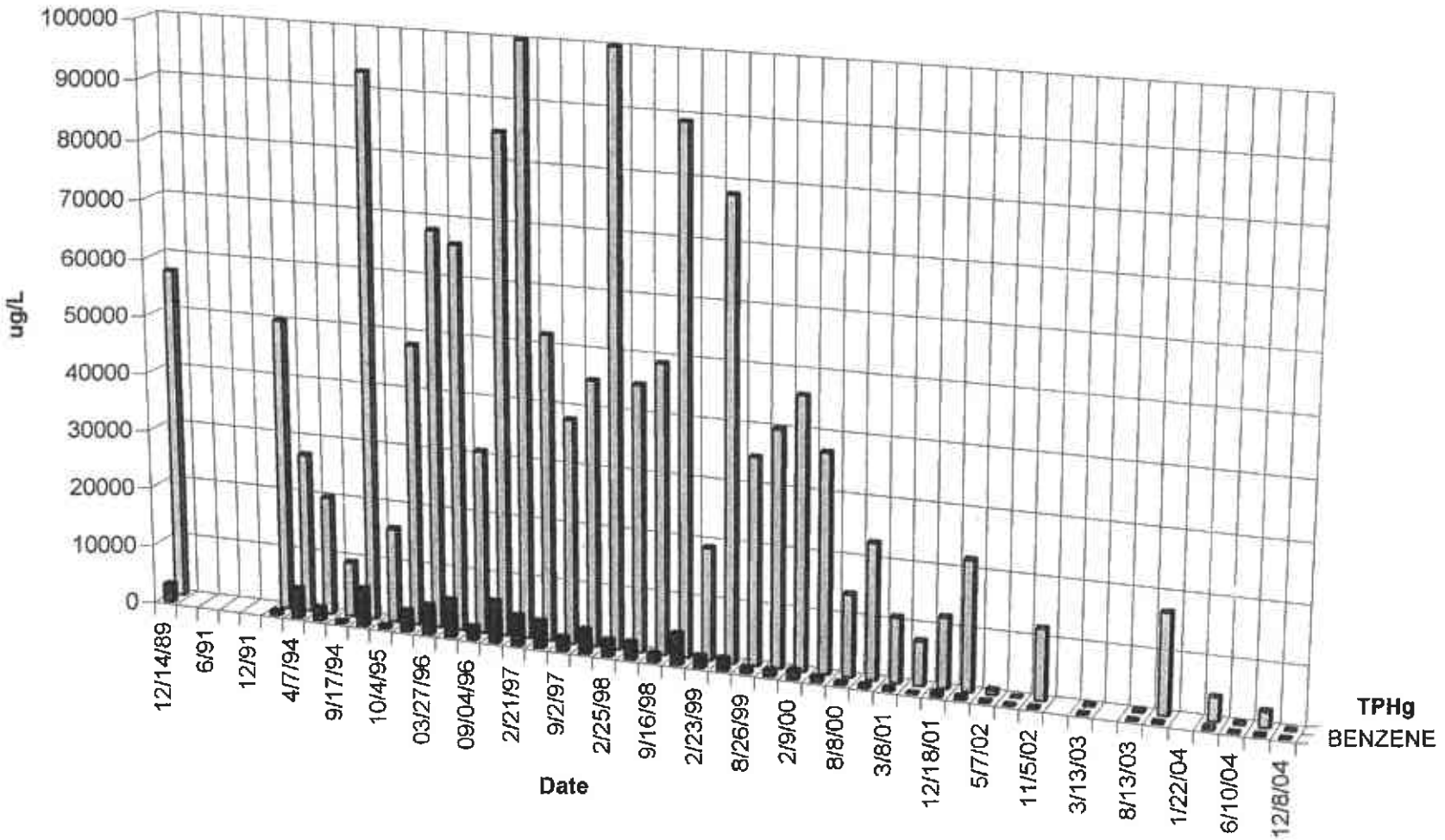
RS-1/MW-1 TPHg


20000
19000
18000
17000
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
ug/L
12/14/89
2/91
9/91
11/9/92
6/19/94
3/12/95
12/21/95
06/11/96
12/11/96
5/28/97
11/24/97
7/8/98
11/24/98
5/5/99
11/10/99
6/30/00
11/16/00
5/31/01
2/19/02
8/6/02
12/12/02
5/6/03
11/20/03
3/30/04
9/28/04
Date
TPHg
BENZENE

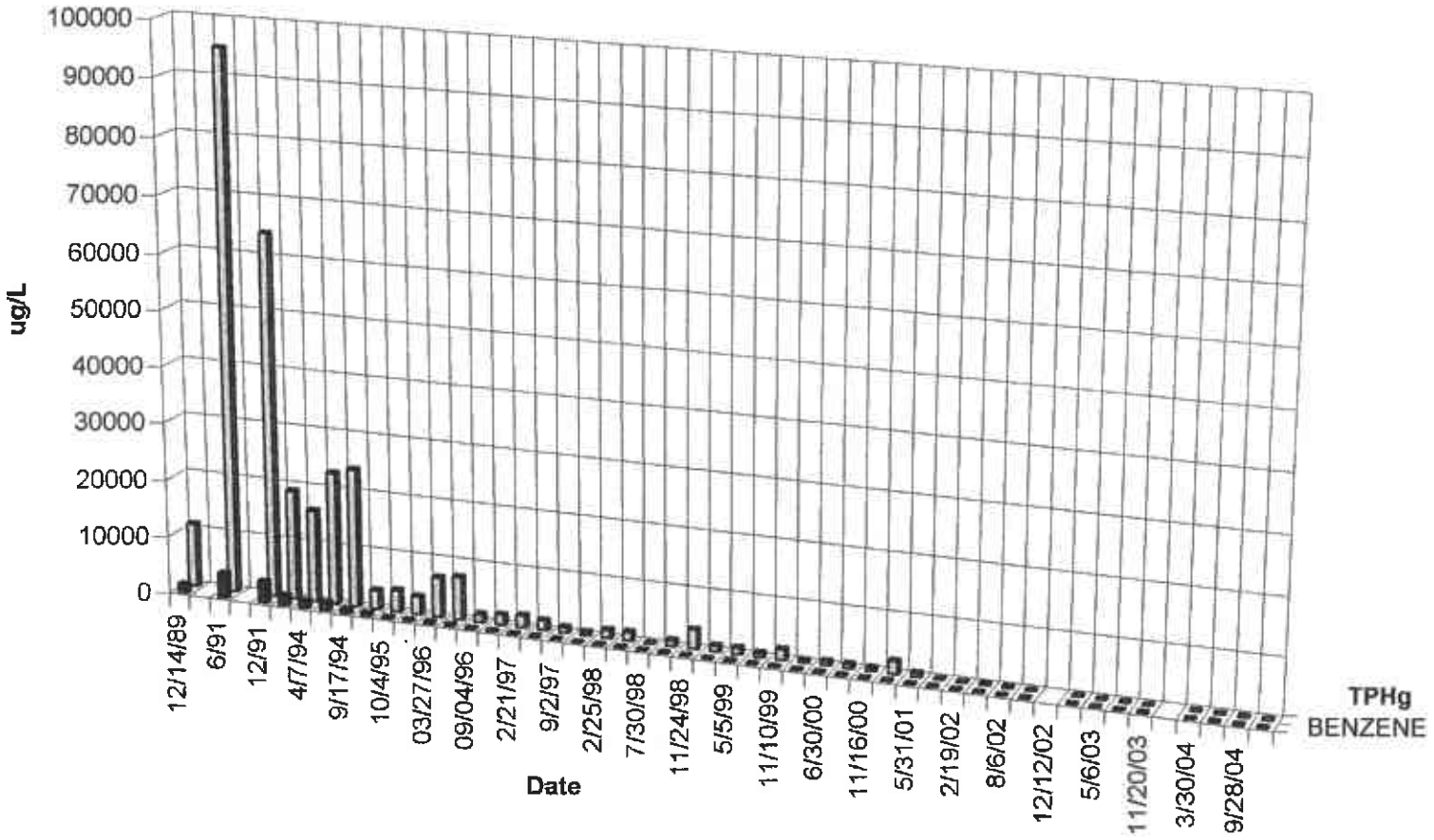
RS-2 TPHg


200
180
160
140
120
100
80
60
40
20
0
ug/L
6/19/94
10/4/95
03/27/96
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

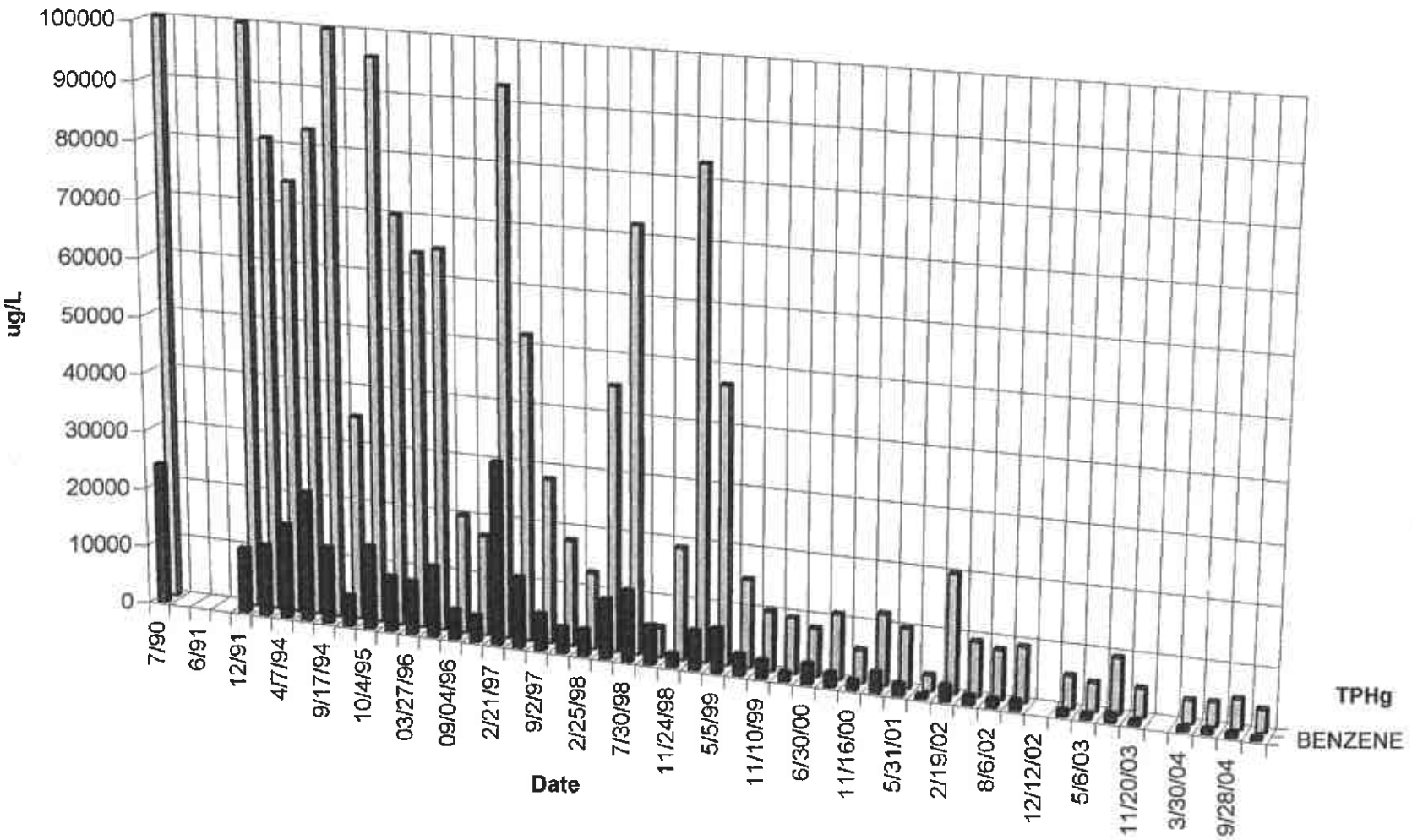
RS-5


100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
12/14/89
6/91
12/91
4/7/94
9/17/94
10/4/95
03/27/96
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

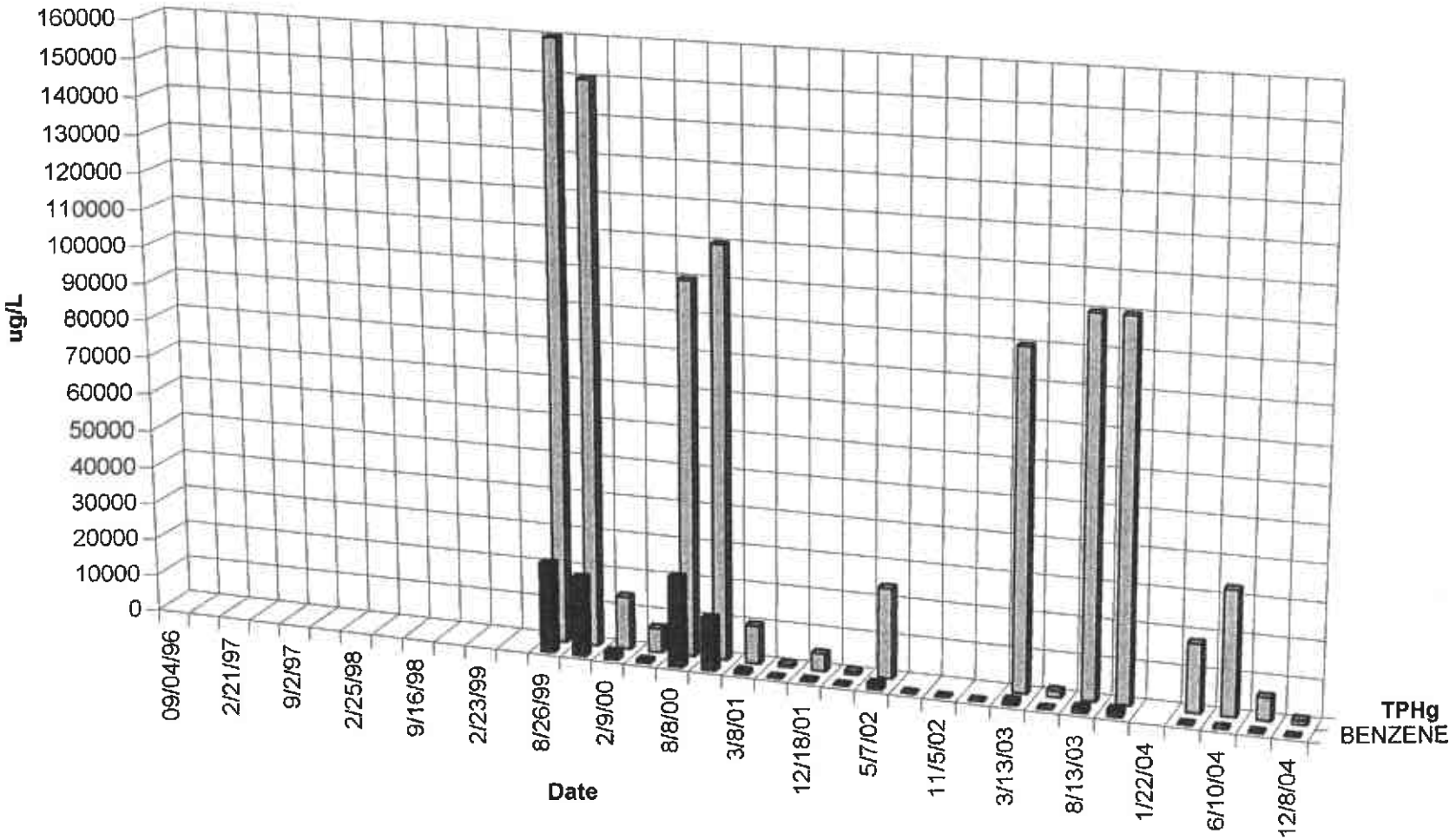
RS-6


100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
12/14/89
6/91
12/91
4/7/94
9/17/94
10/4/95
03/27/96
09/04/96
2/21/97
9/2/97
2/25/98
7/30/98
11/24/98
5/5/99
11/10/99
6/30/00
11/16/00
5/31/01
2/19/02
8/6/02
12/12/02
5/6/03
11/20/03
3/30/04
9/28/04
Date
TPHg
BENZENE

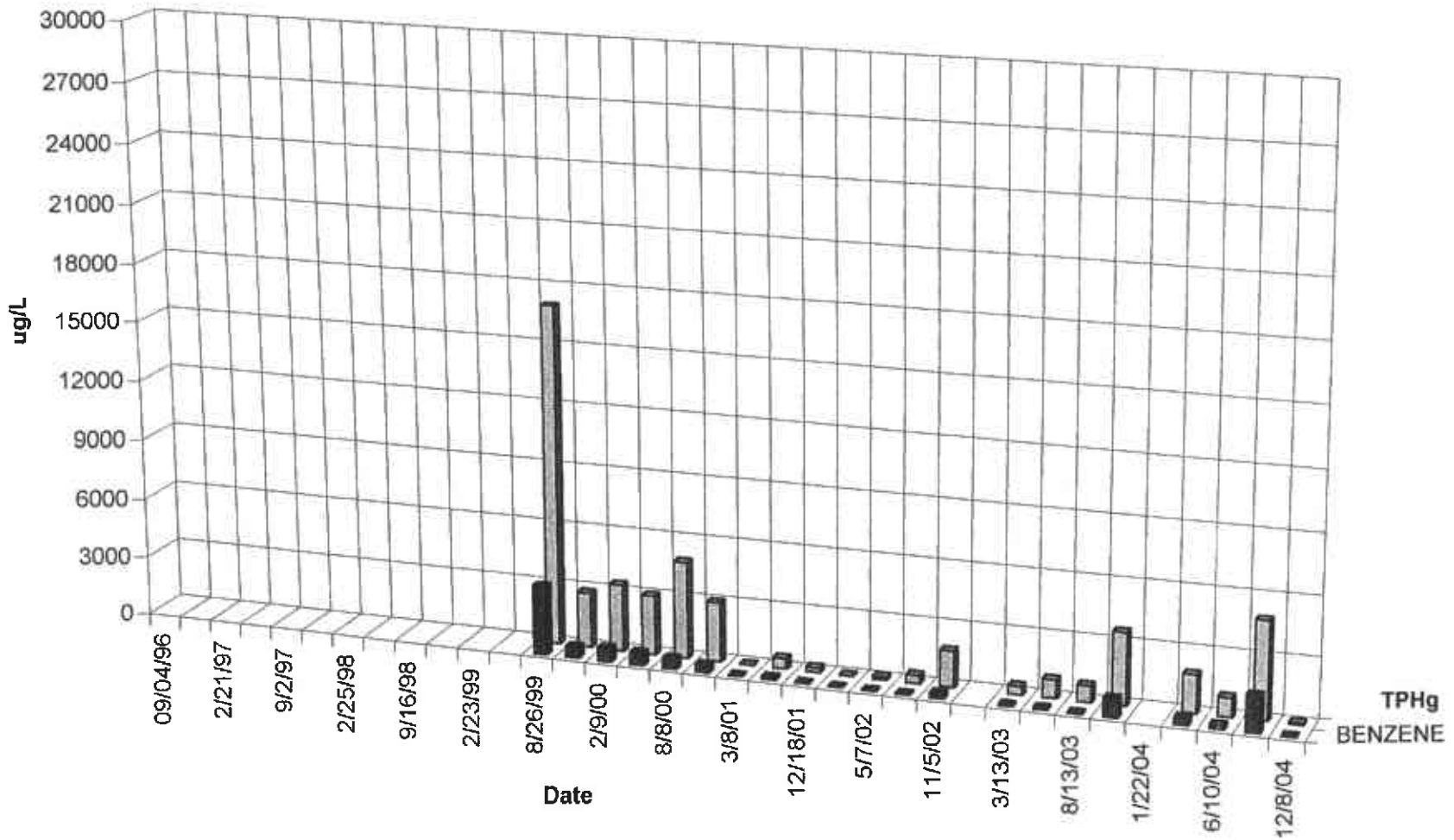
RS-7


100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
7/90
6/91
12/91
4/7/94
9/17/94
10/4/95
03/27/96
09/04/96
2/21/97
9/2/97
2/25/98
7/30/98
11/24/98
5/5/99
11/10/99
6/30/00
11/16/00
5/31/01
2/19/02
8/6/02
12/12/02
5/6/03
11/20/03
3/30/04
9/28/04
Date
TPHg
BENZENE

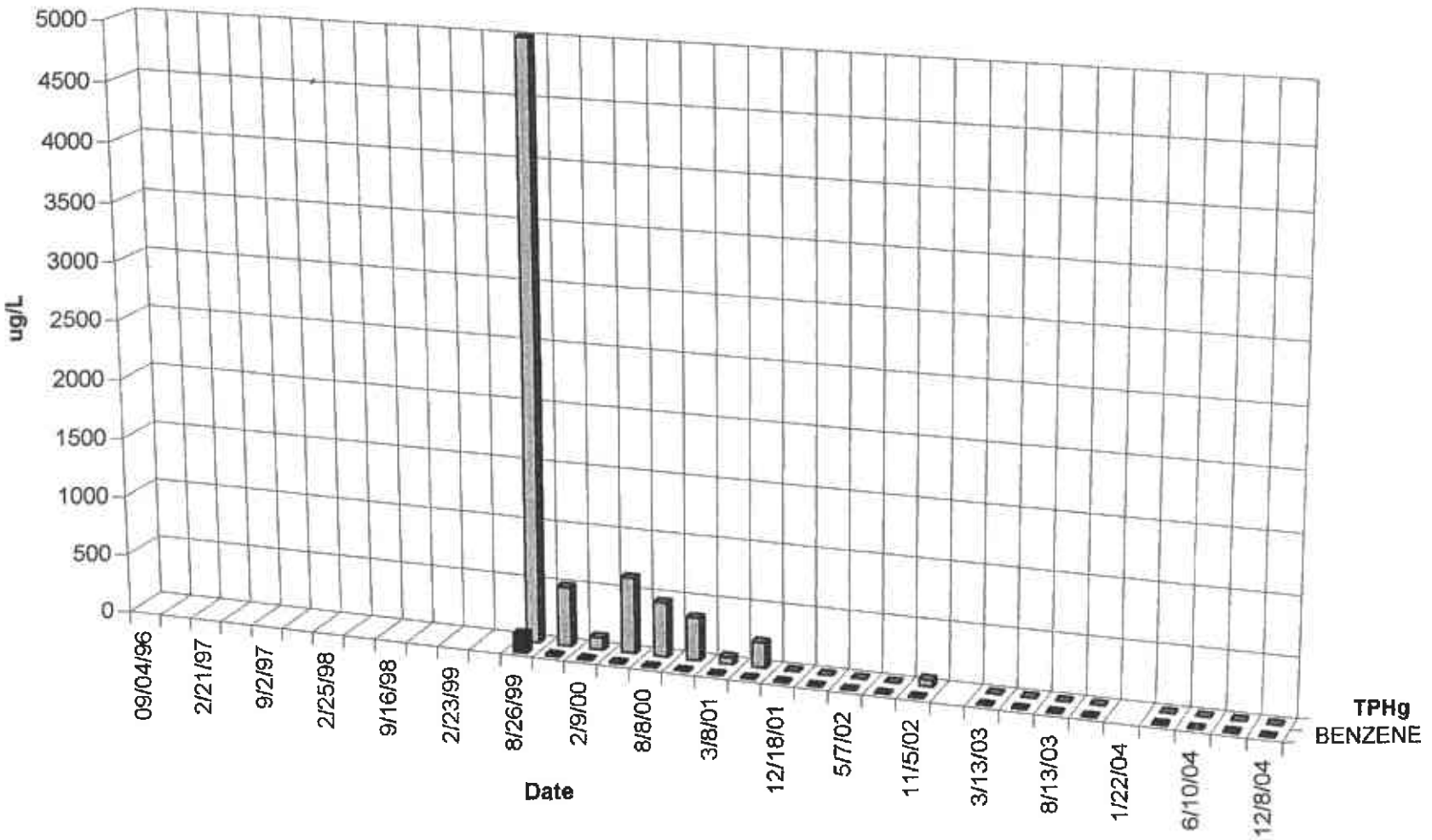
RS-8


160000
150000
140000
130000
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

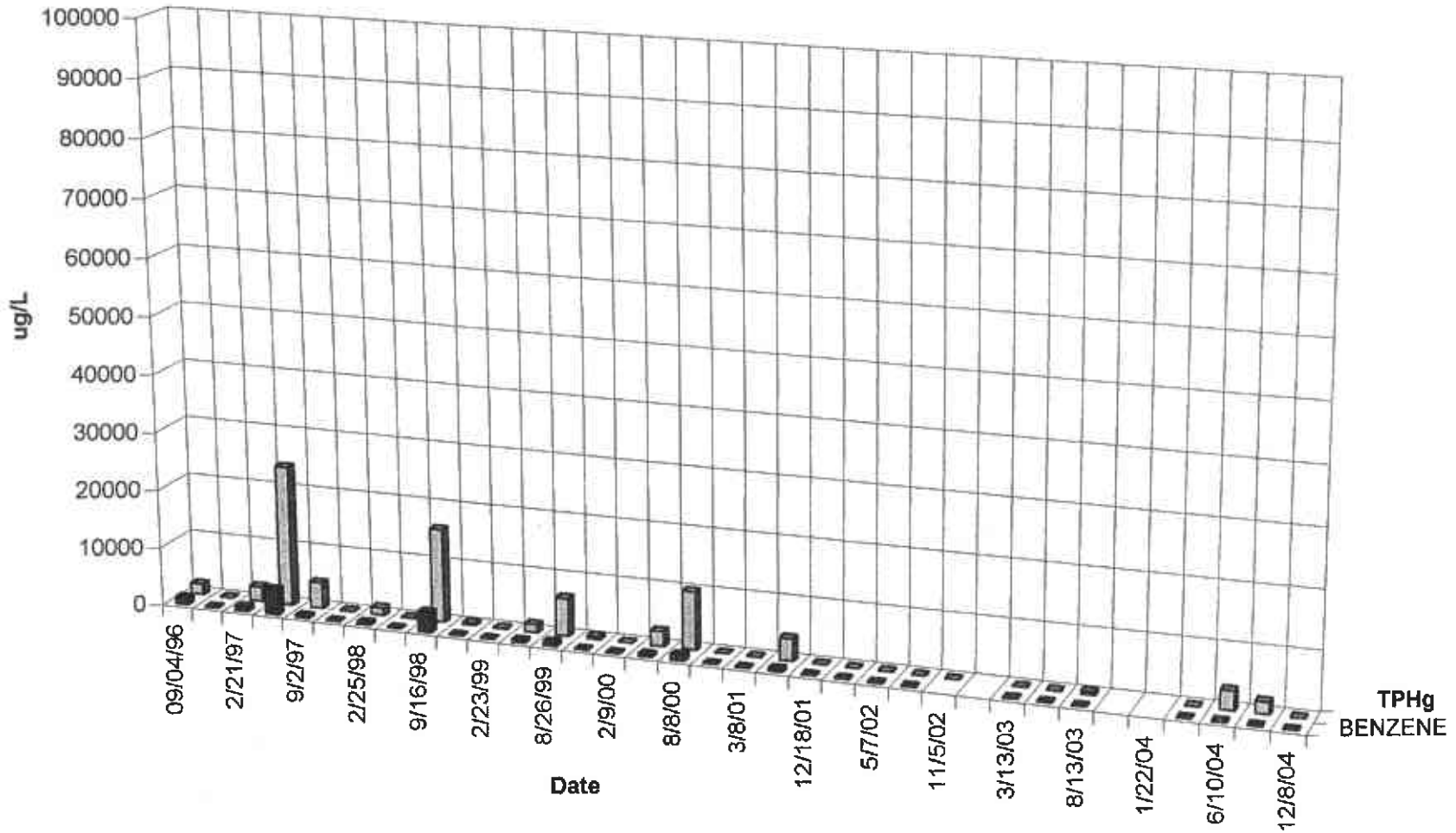
RS-9


30000
27000
24000
21000
18000
15000
12000
9000
6000
3000
0
ug/L
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

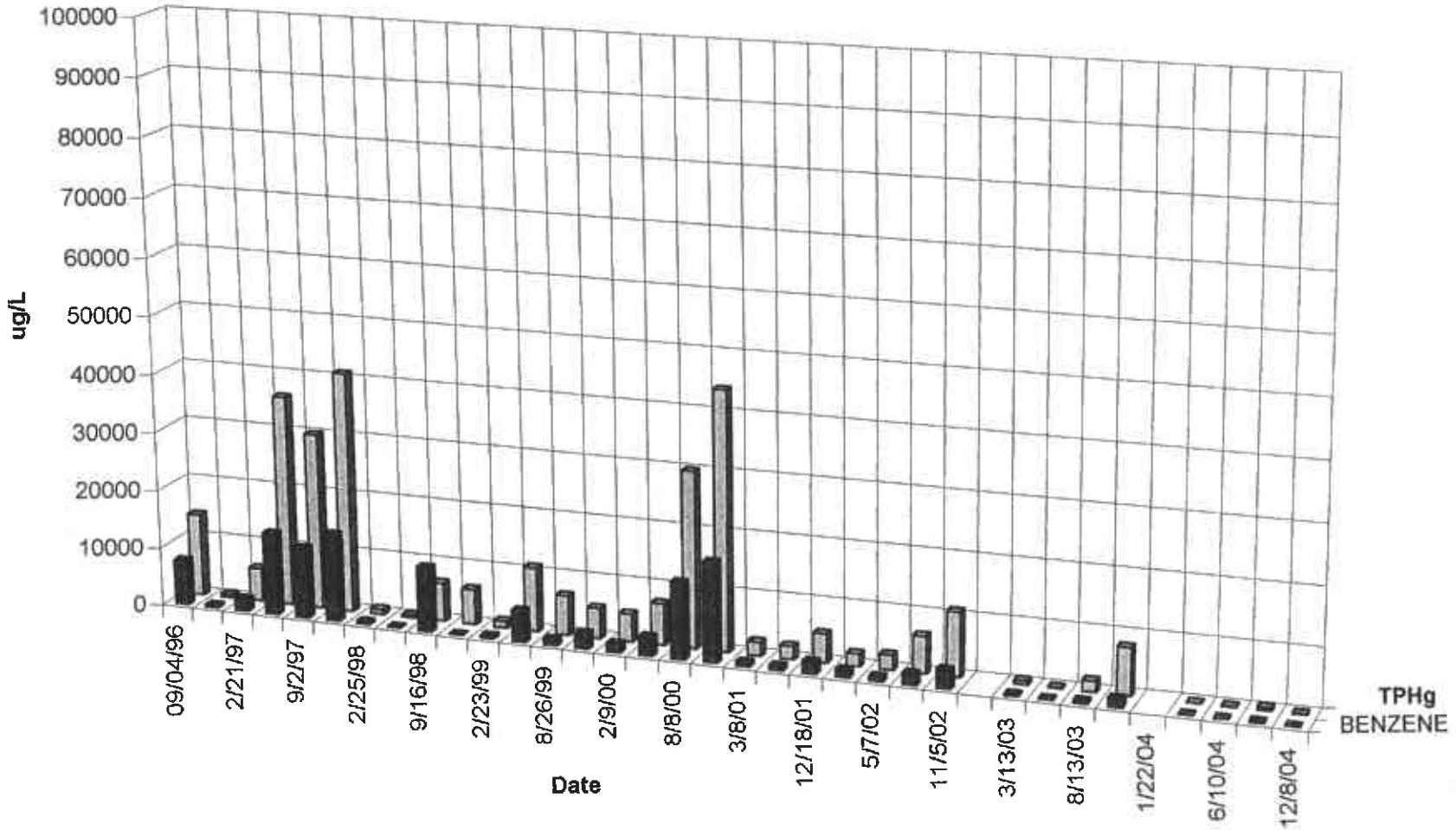
RS-10


5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
ug/L
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

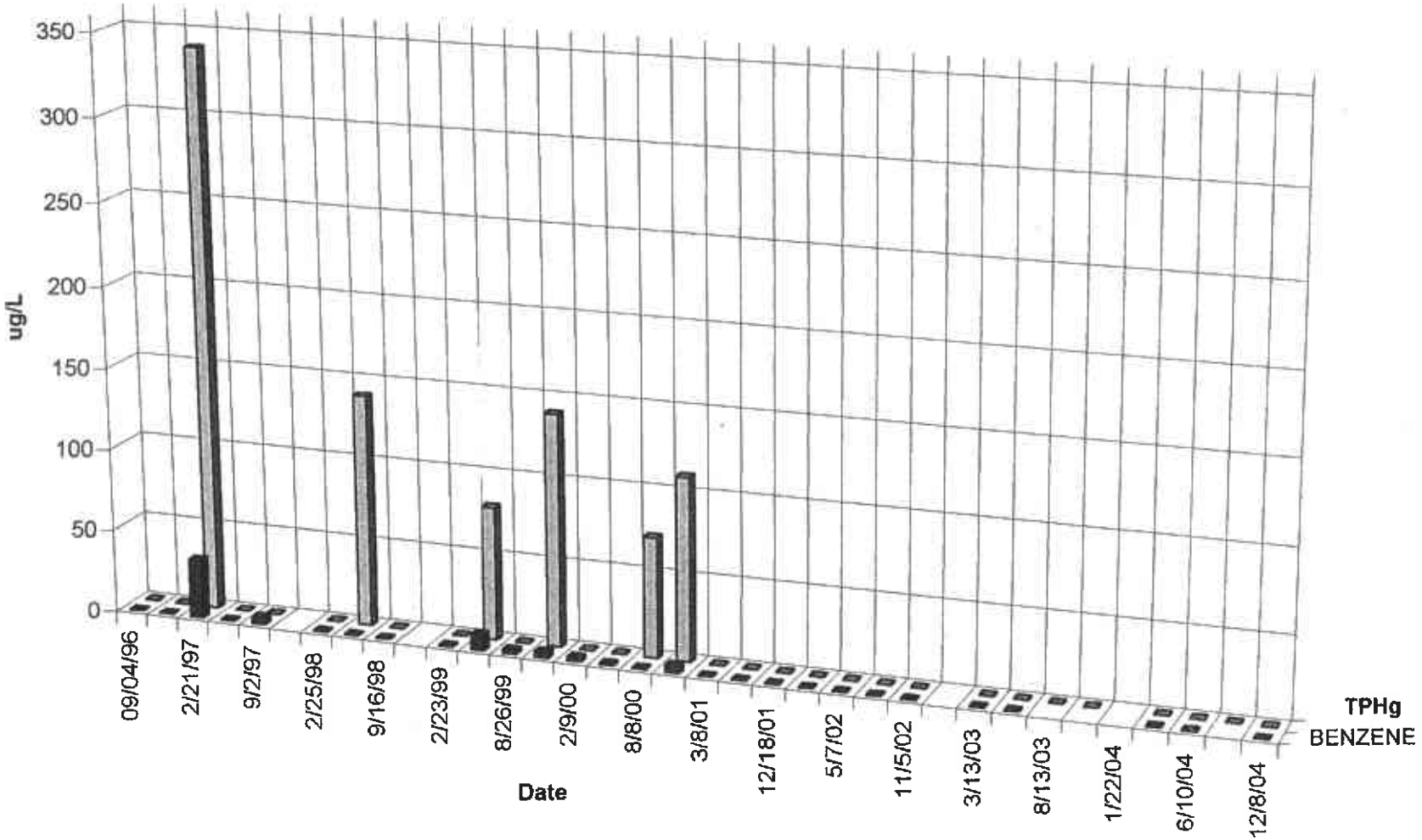
R-1


100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

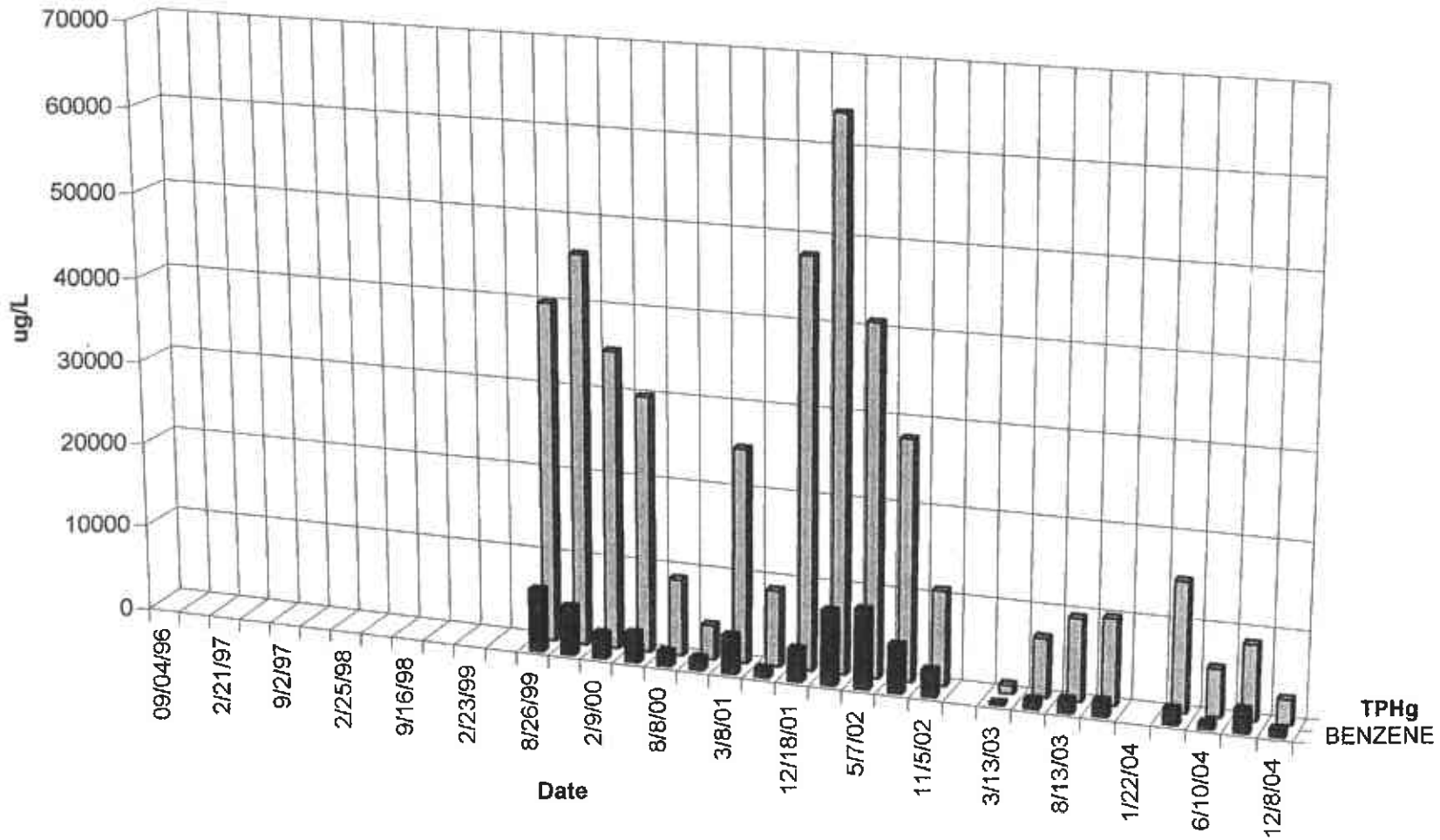
R-2


100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

R-3


350
300
250
200
150
100
50
0
ug/L
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

T-1


70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
3/8/01
12/18/01
5/7/02
11/5/02
3/13/03
8/13/03
1/22/04
6/10/04
12/8/04
Date
TPHg
BENZENE

APPENDIX E

WASTEWATER DISCHARGE REPORT

desert petroleum inc.

Molly Ong.
Source Control Division
East Bay Municipal Utility District
P.O. Box 24055, MS 702
Oakland, CA 94623
(510) 287-1618
Fax (510) 287-0621

January 7, 2005

RE: Wastewater Discharge Quarterly Sampling for Permit #5043550 1, DP 793.

Dear Ms. Ong:

The enclosed table and certified laboratory report represents the sampling for wastewater Discharge Permit #5043550 1 for the period between September 30, and December 30, 2004. On December 30, 2004 a sample of the water discharged to sewer along with the water being pumped from well RS5 was obtained and analyzed for TPHg, BTEX and MtBE using EPA method 8260B. On September 30, 2004 a site visit noted that water had collected in the spill containment holding the two carbon canisters. Inspection noted that the #1 carbon canister had a pinhole leak. The system was shut off, no water escaped the containment berm. On October 15, 2004 a new carbon was placed into the #2 carbon position, carbon two was placed into the carbon one position and the old carbon #1 was removed from the system. Pumping was resumed after the new carbon had been placed into the system.

All discharge conditions have been met.

CERTIFICATION East Bay Municipal Utility District, Permit #5043550 1

I certify under penalty of law that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person of persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature Bill Thompson 1/19/05 date

TABLE 1
GROUNDWATER REMOVAL
FORMER DP #793
4035 PARK BLVD., OAKLAND, CALIFORNIA

DATE PURGED	METER READING IN GALLONS RS5	METER READING IN GALLONS TRENCH	DEPTH TO TOP OF WATER IN FEET T1	GALLONS PURGED T1 and/or 1/4ly monitoring	ACCUMULATED GALLONS REMOVED FROM TRENCH &WELLS in GALLONS	Accumulated gallons removed from RS5 Gallons	TOTAL GALLONS REMOVED	INFLUENT CONCENTRATIONS EPA METHOD 8020 - 8260B TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L	Sample Location
					0									
12/3/03	1649967.4	1649967.4		0	81579	474542.7	556121.6							
12/11/03	1649977.6	1649977.6		0	81579	474552.9	556131.8							
12/18/03	1654385.3	1655688.6		1303	82882	478960.6	561842.8							
12/23/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
12/30/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
1/22/04	1672236.9	1673412.0		1175	84057	495508.9	579566.2							
2/26/04	1696276.0	1696378.0		102	84159	518372.9	602532.2							
3/30/04	1722614.0	1723589.0		975	85134	544608.9	629743.2	15000	1800	660	610	2000	8.6	T1
4/8/04	1729975.5	1729975.5		0	85134	550995.4	636129.7	4000	370	59	13	380	2.6	RS5
4/14/04	1734113.2	1734113.2		0	85134	555133.1	640267.4							
4/22/04	1739978.0	1739978.0		0	85134	560997.9	646132.2							
4/29/04	1744687.9	1746094.5		1407	86541	565707.8	652248.7							
5/13/04	1754248.1	1754248.1		0	86541	573861.4	660402.3							
5/21/04	1759593.7	1759593.7		0	86541	579207.0	665747.9							
5/27/04	1762418.0	1764065.5		1648	88188	582031.3	670219.7							
6/3/04	1769445.0	1769445.0		0	88188	587410.8	675599.2	5500	570	2	240	130	2.7	T1
6/10/04	1774349.0	1774349.0		0	88188	592314.8	680503.2	120	7	0.88	1.3	4.3	1.3	RS5
6/17/04	1778979.0	1778979.0		0	88188	596944.8	685133.2							
6/25/04	1783576.7	1783576.7		0	88188	601542.5	689730.9							
6/30/04	1786027.0	1787786.1		1759	89948	603992.8	693940.3							
7/8/04	1787858.5	1787858.5		0	89948	604065.2	694012.7							
7/22/04	1791170.5	1791170.5		0	89948	607377.2	697324.7							
7/29/04	1791170.5	1791170.5		0	89948	607377.2	697324.7	no electrical power to site (no pumping).						
9/24/04	1791170.0	1791170.0		0	89948	607376.7	697324.2	new electrical power to site (restart pump RS5).						
9/28/04	1791275.2	1793186.5		1911	91859	607481.9	699340.7	2600	110	89	75	56	<0.5	RS5
9/30/04	1794233.0	1794233.0		0	91859	608528.4	700387.2	8700	2600	100	450	240	15	T1
10/15/04	1794243.8	1794243.8		0	91859	608539.2	* 700398.0							
10/28/04	1800669.8	1800669.8		0	91859	614965.2	706824.0							
11/5/04	1805236.0	1805236.0		0	91859	619531.4	711390.2							
11/19/04	1813980.8	1813980.8		0	91859	628276.2	720135.0							
12/8/04	1826103.7	1826253.7		150	92009	640399.1	732407.9	<50	<0.5	<0.5	<0.5	<0.5	<0.5	RS5
12/30/04	1841818.0	1841818.0		0	92009	655963.4	747972.2	4500	370	130	84	170	1.9	RS5

ug/L micrograms per liter (parts per billion)
mg/L milligrams per liter (parts per million)
WESTERN GEO-ENGINEERS

< BELOW LABORATORY LOWER DETECTION LIMITS
mg/Kg milligrams per kilogram (parts per million)
TPHg TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE
MTBE METHYL TERTIARY BUTYL ETHER

* SAMPLED ON AUGUST 26, 1999
T1 Receptor Trench Well
RS5 Monitor Well RS5 (pumping well)

TABLE 2
WASTEWATER DISCHARGE PERMIT # 5043550 1
FORMER DF #793
4035 PARK BLVD., OAKLAND, CALIFORNIA

WASTEWATER SOURCE ID	DATE	METER READING IN GALLONS #35635668 314110	NEW METER IN GALLONS #47083426	GALLONS DISCHARGED BETWEEN VISITS	ACCUMULATIVE GALLONS DISCHARGED	AVERAGE DISCHARGE PER MINUTE IN GALLONS	EPA METHOD 624 BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	7420 LEAD ug/L
F1 (PSP No. 1)	10/30/02		1389884.7	25583	296039	0.37					
F1 (PSP No. 1)	11/5/02		1392931	3046	299086	0.35					
F1 (PSP No. 1)	12/12/02		1410216	17285	316371	0.32	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	1/9/03		1431653.1	21437	337808	0.53					
F1 (PSP No. 1)	2/19/03		1462658.4	31005	368813	0.53					
F1 (PSP No. 1)	3/13/03		1478624.6	15966	384779	0.50	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	4/15/03		1496745.6	18121	402900	0.38					
F1 (PSP No. 1)	5/6/03		1516728.7	19983	422883	0.66	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	6/5/03		1536327.1	19598	442482	0.45					
F1 (PSP No. 1)	7/3/03		1558031.2	21704	464186	0.54					
F1 (PSP No. 1)	8/13/03		1587475.1	29444	493630	0.50	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	9/12/03		1607619	20144	513774	0.47					
F1 (PSP No. 1)	10/16/03		1627622	20003	533777	0.41					
F1 (PSP No. 1)	11/20/03		1645991.4	18369	552146	0.36					
F1 (PSP No. 1)	12/18/03		1655688.6	9697	561843	0.24	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	1/22/04		1673412	17723	579567	0.35					
F1 (PSP No. 1)	2/26/04		1696378	22966	602533	0.46					
F1 (PSP No. 1)	3/30/04		1723589	27211	629744	0.57	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	4/29/04		1746094.5	22506	652249	0.52					
F1 (PSP No. 1)	5/27/04		1764065.5	17971	670220	0.45	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	6/30/04		1787786.1	23721	693941	0.48					
F1 (PSP No. 1)	7/29/04		1791170.5	3384	697325	0.08					
F1 (PSP No. 1)	8/31/04		1791170.5	0	697325	0.00					
F1 (PSP No. 1)	9/30/04		1794233	3063	700388	0.07	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	10/28/04		1800669.8	6437	706825	0.16					
F1 (PSP No. 1)	11/24/04		1816663.2	15993	722818	0.41					
F1 (PSP No. 1)	12/30/04		1841818	25155	747973	0.49	<0.5	<0.5	<0.5	<0.5	<0.5

< BELOW LABORATORY LOWER DETECTION LIMITS

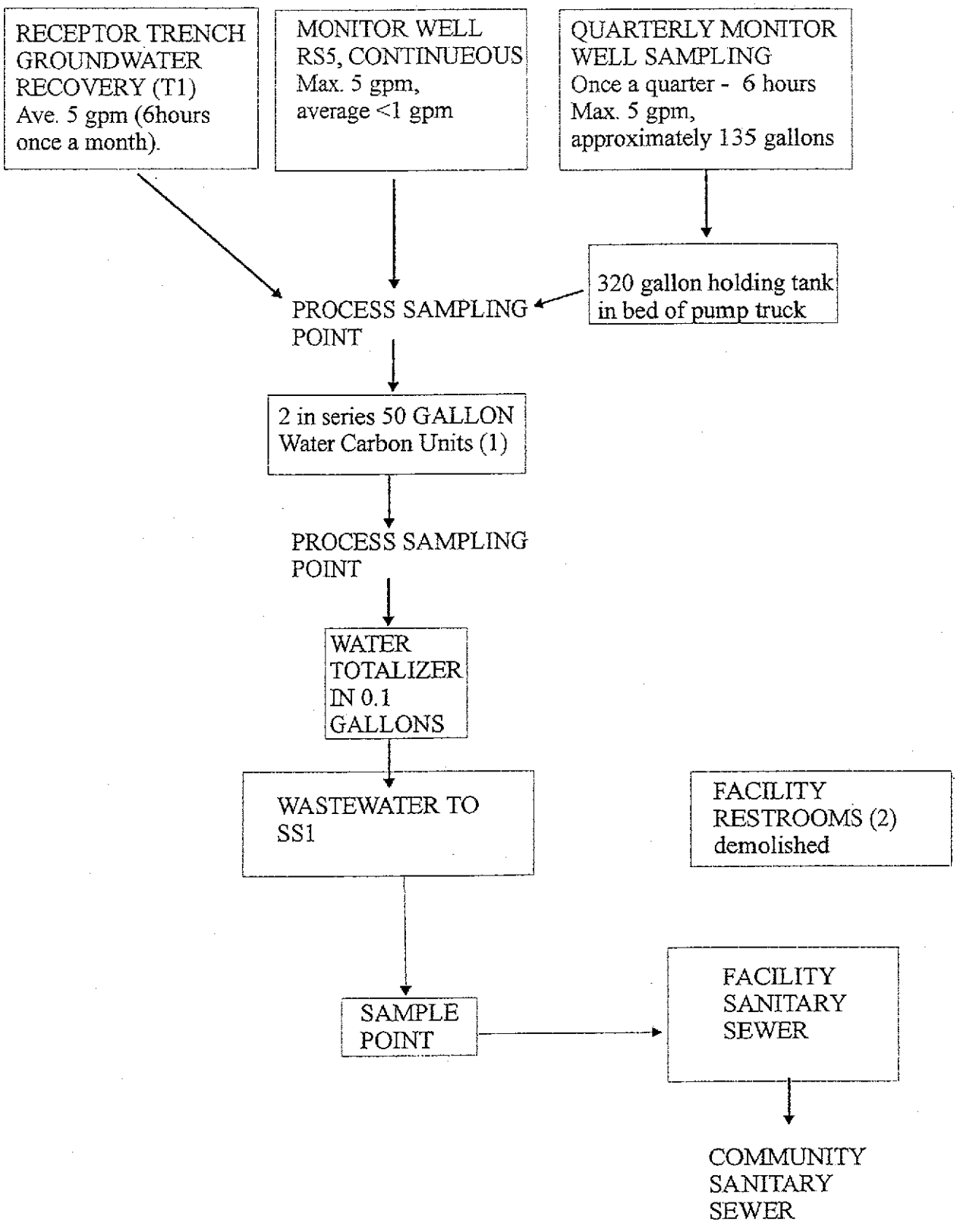
ug/L micrograms per liter (parts per billion)

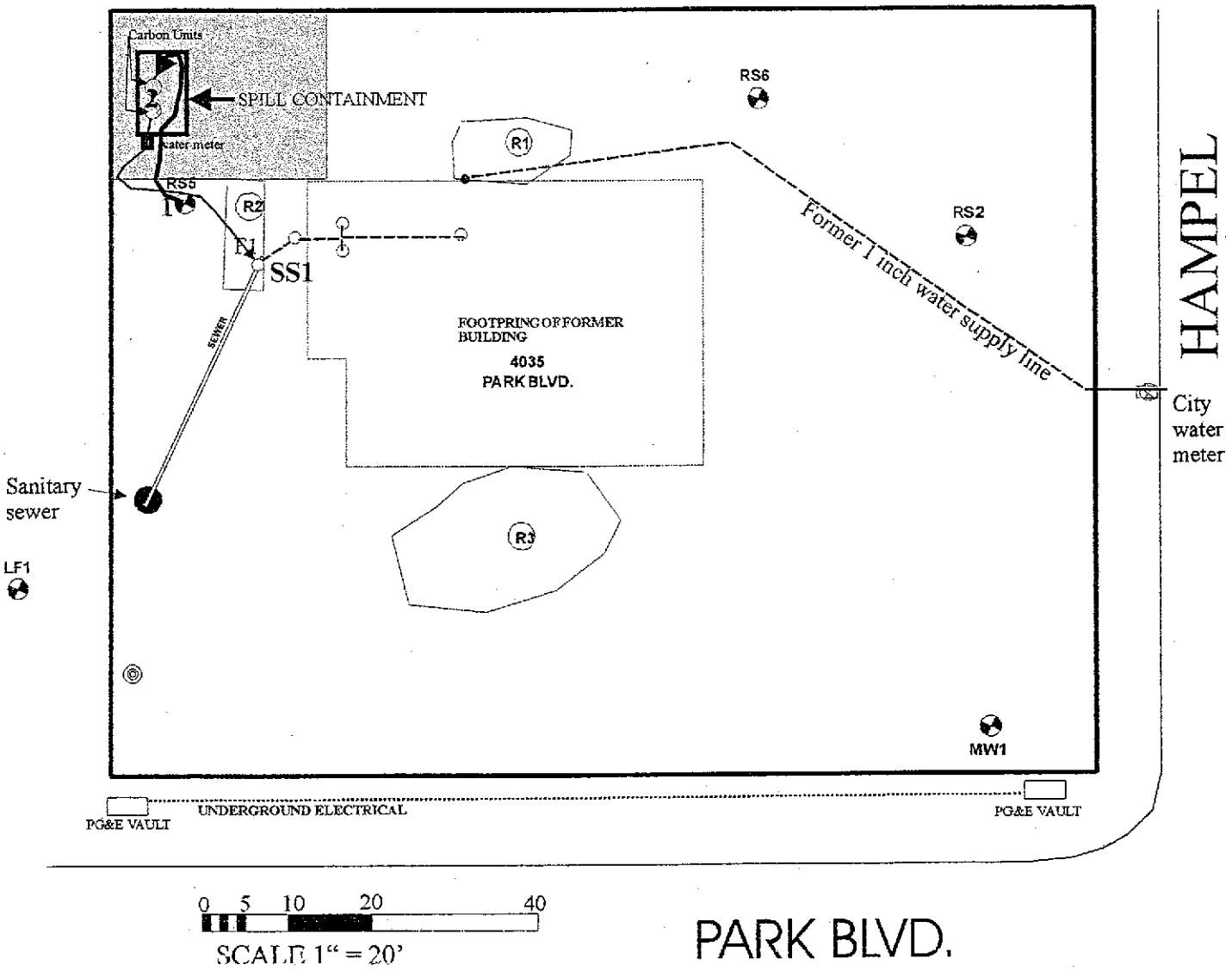
Note: water meter #47083426 did not function during initial test, substitute meter #35635668 used until cleaned and tested. Re-installed January 28, 2000.

Note: water meter difference from 7/19/2001 to 3/21/2002 is from use of meter at other sites to meter discharges when pumping was discontinued on 7/19/2001.

WATER DISCHARGED TO SEWER IS FROM PURGING OF T1, DISCHARGE FROM WELL RS5 AND PURGED WATER FROM 1/4LY SAMPLING.

Figure 1(Revised July 7, 2004)
Activity: GROUNDWATER RECOVERY AND DISCHARGE SYSTEM
FORMER DESERT PETROLEUM SITE DP 793.



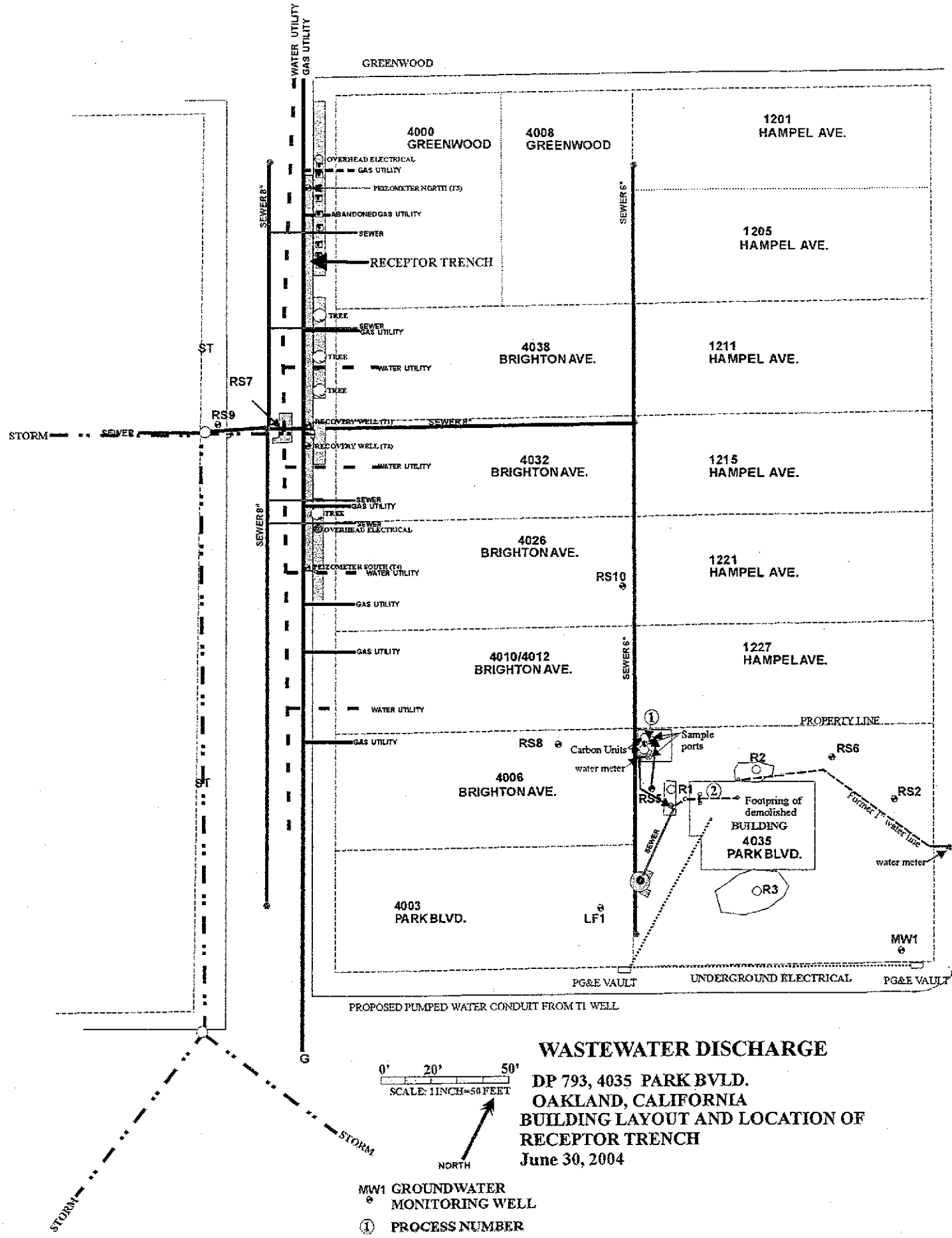


MW1 MONITOR WELL

1 Groundwater recovery well RS5

2 2 in series 55 gallon carbon filters.

FIGURE 2
SEWER DISCHARGE TREATMENT COMPOUND WASTEWAER DISCHARGE PERMIT # 5043550 1



WASTEWATER DISCHARGE

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
BUILDING LAYOUT AND LOCATION OF RECEPTOR TRENCH
June 30, 2004

KIFF ANALYTICAL LLC

Report Number : 41803
Date : 1/7/2005

George Converse
Western Geo-Engineers
1386 East Beamer Street
Woodland, CA 95776

Subject : 2 Water Samples
Project Name : DP793, Sewer Discharge Dec 2004
Project Number : DP793 12 30 04

Dear Mr. Converse,

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

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

Sincerely,

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 41803

Date : 1/7/2005

Project Name : **DP793, Sewer Discharge Dec 2004**

Project Number : **DP793 12 30 04**

Sample : **IN** Matrix : Water Lab Number : 41803-01

Sample Date :12/30/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**370**	0.50	ug/L	EPA 8260B	1/5/2005
Toluene	**130**	0.50	ug/L	EPA 8260B	1/5/2005
Ethylbenzene	**84**	0.50	ug/L	EPA 8260B	1/5/2005
Total Xylenes	**170**	1.5	ug/L	EPA 8260B	1/6/2005
Methyl-t-butyl ether (MTBE)	**1.9**	0.50	ug/L	EPA 8260B	1/5/2005
TPH as Gasoline	**4500**	50	ug/L	EPA 8260B	1/5/2005
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	1/5/2005
4-Bromofluorobenzene (Surr)	90.8		% Recovery	EPA 8260B	1/5/2005

Sample : **Out** Matrix : Water Lab Number : 41803-02

Sample Date :12/30/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/5/2005
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/5/2005
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/5/2005
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/5/2005
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	1/5/2005
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/5/2005
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	1/5/2005
4-Bromofluorobenzene (Surr)	90.0		% Recovery	EPA 8260B	1/5/2005

Approved By: Joel Kiff

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

Report Number : 41803

Date : 1/7/2005

QC Report : Method Blank Data

Project Name : **DP793, Sewer Discharge Dec 2004**

Project Number : **DP793 12 30 04**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/4/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/4/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/4/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/4/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/4/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/4/2005
Toluene - d8 (Surr)	101		%	EPA 8260B	1/4/2005
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	1/4/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/5/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41803

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 1/7/2005

Project Name : **DP793, Sewer Discharge**

Project Number : **DP793 12 30 04**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	41802-02	<0.50	39.8	39.9	41.6	41.3	ug/L	EPA 8260B	1/4/05	104	103	0.909	70-130	25
Toluene	41802-02	<0.50	39.8	39.9	42.3	41.3	ug/L	EPA 8260B	1/4/05	106	103	2.57	70-130	25
Tert-Butanol	41802-02	110	199	200	318	327	ug/L	EPA 8260B	1/4/05	102	107	4.55	70-130	25
Methyl-t-Butyl Ether	41802-02	68	39.8	39.9	102	103	ug/L	EPA 8260B	1/4/05	87.8	88.3	0.645	70-130	25
Benzene	41829-10	<0.50	40.0	40.0	39.4	38.4	ug/L	EPA 8260B	1/5/05	98.4	96.1	2.36	70-130	25
Toluene	41829-10	<0.50	40.0	40.0	40.3	42.1	ug/L	EPA 8260B	1/5/05	101	105	4.26	70-130	25
Tert-Butanol	41829-10	<5.0	200	200	206	200	ug/L	EPA 8260B	1/5/05	103	100	2.98	70-130	25
Methyl-t-Butyl Ether	41829-10	<0.50	40.0	40.0	47.7	41.9	ug/L	EPA 8260B	1/5/05	119	105	13.0	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 41803

Date : 1/7/2005

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP793, Sewer Discharge**

Project Number : **DP793 12 30 04**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	1/4/05	105	70-130
Toluene	40.0	ug/L	EPA 8260B	1/4/05	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/4/05	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/4/05	93.7	70-130
Benzene	40.0	ug/L	EPA 8260B	1/5/05	98.1	70-130
Toluene	40.0	ug/L	EPA 8260B	1/5/05	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/5/05	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/5/05	115	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 41803 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: Western Geo-Engineers 1386 E. Beamer St. Woodland, CA 95776

Phone No.: 530-668-5300 FAX No.: 530-662-0273

Project Number: DP793 12 30 04 P.O. No:

Project Name: DP793, Sewer discharge Dec 2004

Project Address:

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address): wegelab@cal.net

Sampler Signature: Roy Butler

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
IN	12/30/04	14:17	3		X		X		X						X										01
Out	12/30/04	14:22	2		X		X		X						X										02

TAT: 1 wk circled

Relinquished by:	Date	Time	Received by:
Roy Butler	12/30/04	16:20	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	123004	1620	K. Hughes Kiff Analytical

Remarks:

Bill to:

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9