P0429

SECOND 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

JULY 26, 2004

BY

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

desert petroleum inc.

Mr. Scott Seery.
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6783
FACSMILE (510) 337-9335

July 27, 2004

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

Dear Mr. Seery:

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

1. ✓ agree _____ disagree with the scope and findings.

Sincerely,

William Thompson, Desert Petroleum, Inc.

8/4/04
date

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TABLE OF CONTENTS

List of Tables

List of Figures

Table of Contents Continued

List of Appendices

-WEGE-

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

July 23, 2004

Dear Mr. Thompson:

The following report documents the second 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.

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 east/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 June 10, 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 June 10, 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 June 10, 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 June 10, 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. The hydraulic gradient averages 0.089 feet/linear foot down gradient of RS-6 to the receptor trench well T2, see Figure 4. The present flow direction and hydraulic gradient are consistent with previous determinations by WEGE. Also evident on Figure 4 is the "cone of influence" out to RS8, generating from RS5. 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 June 10, 2004 are shown in Table 1.

TPH-G concentrations in water samples from the eight monitor wells, the receptor trench well and three recovery wells ranged from 33000 ug/L at monitor well RS8, to below laboratory lower detection limits of 50 ug/L in wells MW1, RS2, RS6, RS10, R3 and LF1. No free phase product was found in Well RS8 during this quarter.

Benzene concentrations ranged from a maximum of 740 ug/L in well RS7 to below the laboratory lower detection limits (0.5 ug/L) at wells MW1, RS2, RS6, RS10, R3 and LF1, see Appendix C - Laboratory Report.

Analysis results for Oxygenant MtBE was below the laboratory lower detection limit in wells MW1, RS2, RS6, RS8, RS10, R1, R2, R3 and LF1. Well RS5 contained MtBE at 1.3 ug/L, RS7 contained MtBE at 2.8 ug/L, RS9 contained MtBE at 9.7 ug/L and T1 contained MtBE at 2.7 ug/L. T1, RS7 and RS9 are located within or near Brighton Street and RS5 is the pumping well, indicating that the MtBE source(s) may be the cars parked along Brighton Street. During the September 16, 1998 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 (June 10, 2004) shows the lateral distribution of the hydrocarbon plume with benzene distinction in groundwater during pumping from RS-5. The current plume(s) (Figure 5) has decreased in concentration at wells T1, RS5, and RS9 when compared to the previous quarter sampling (March 30, 2004).

TPHg - Figure 5

Total Petroleum Hydrocarbons, gasoline range has a laboratory lower detection limit (LLDL) of 50 ug/L, was detected in wells R1, R2, RS5, RS7, RS8, RS9 and T1 ranging from a low of 77 ug/L at R2 to a high of 33000 ug/L at RS8 (no floating product was observed in this well during this quarter).

Benzene - Figure 5

Benzene has a LLDL of 0.5 ug/L. The recommended CPHG (California Public Health Goal) for Benzene is 1 ug/L. Benzene was detected in wells R1, R2, RS5, RS7, RS8, RS9, and T1 ranging from a low of 7 ug/L at RS5 to a high of 740 ug/L at RS7.

Toluene

Toluene has a LLDL of 0.5 ug/L. The recommended CPHG for toluene is 150 ug/L. Toluene was detected in wells R1, RS5, RS7, RS8, RS9 and T1, ranging from a low of 0.88 ug/L at well RS5 to a high of 350 ug/L at well RS8.

Ethylbenzene

Ethylbenzene has a LLDL of 0.5 ug/L. The recommended CPHG for Ethylbenzene is 300 ug/L. Ethylbenzene was detected in wells R1, RS5, RS7, RS8, RS9 and T1, ranging from a low of 1.3 ug/L at well RS5 to a high of 360 ug/L at well RS8.

Xylenes

Xylenes have a LLDL of 0.5 ug/L. The recommended CPHG for Xylenes is 1800 ug/L. Xylenes were detected in wells R1, RS5, RS7, RS8, RS9 and T1, ranging from a low of 4.3 ug/L at well RS5 to a high of 2300 ug/L at well RS8.

MtBE

MtBE has a LLDL of 0.5 ug/L. The recommended CPHG for MtBE is 13 ug/L. MtBE was detected in wells RS5, RS7, RS9 and T1, ranging from a low of 1.3 ug/L at well RS5 to a high of 8.7 ug/L at well RS9, see Table 1 and Appendix C - Laboratory Report.

Appendix D contains charts developed for wells RS5, RS6, RS7, RS8, RS9, RS10, R1, R2 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 June 10, 2004 sampling. Well RS5 shows a decreasing/increasing/decreasing in both TPHg and Benzene concentrations for the last three sample events. This decreasing/increasing pattern is most likely due the well being used for groundwater recovery and plume capture. Well RS8 also shows a decrease/increase/decrease pattern and is influenced by the pumping at RS5. The most down gradient well RS9 also shows a similar pattern of decrease/increase/decrease. The Receptor Trench, T1, display increases in concentrations with time for both TPHg and Benzene from March 13, 2003 through the March 30, 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 June 30, 2004 89,948 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 June 30, 2004, 603,993 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 the previous non-pumping water measurements. This created a cone of influence out to offsite wells RS-8 and RS-10, see Figure 4 and 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, June 10, 2004 shows continued decrease in hydrocarbons to levels lower than the May 31, 2001 sample results at wells RS5, RS6, RS7, RS10, R1, R2 and T1. And increase in hydrocarbon concentrations downgradient of the site at wells RS8 and RS9.

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 feels this in an opportune time to perform an updated assessment of the on-site soils and groundwater associated with the hydrocarbon plume at 4035 Park Blvd. With the station building gone, the areas of suspected hydrocarbon contamination (beneath the building) can be sampled and verified allowing an updated risk assessment concerning the station proper for site closure, or if necessary, to revise remediation plans(s) to expedite the clean-up of this site. A workplan outlining further assessment/risk, dated May 1, 2003. This workplan was later revised after discussions with Mr. Scott Seery and has been approved, June 8, 2004, see Appendix F.

10.0 RECOMMENDATIONS

With a new property owner and the demolition of the existing building at 4035 Park Blvd., the following recommendations are made by Western Geo-Engineers.

- Implement the October 28, 2003 revision to the May 1, 2003 workplan to further assess the soils and groundwater that currently underlay the former building location at 4035 Park Blvd.
- 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, develop a cost benefit remediation plan 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 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,

REGISTERED GEOLOGIST
JACK E. NAPPER
No. 3037
STATE OF CALIFORNIA

George Converse
Geologist

Jack E. Napper
Ca. Reg. Geologist #3037

cc: Mr. Scott O. Seery, Alameda County Health (510) 567-6783
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	< 0.5	< 0.5	
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	< 50	
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	****

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)	
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
		(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)									
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	< 1	<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	****

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	****

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-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	****

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	****

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	****

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										
	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	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORYTAORY 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)	
(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	****

(All concentrations in parts per billion [ug/L, ppb])
(AMSL = Above mean sea level)

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)	
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	****

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)	
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	****

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)	
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	****

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 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 3	1/22/04	202.38									
T 3	6/10/04	202.38	9.80	192.58							
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							
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	****

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									
2/8/01		1136659.0	2.3	5' 5	45339		45338.5							
2/15/01		1137441.4	2.38	782	46121		46120.9							
2/22/01	1140664.5	1141123.6	2	459	46580	3223.1	49803.1							
3/1/01	1150033.2	1150736.5	2.18	703	47283	12132.7	59416.0							
3/8/01	1158270.7	1158901.1	2.18	630	47914	19666.9	67580.6	25000	4400	3400	770	3200	26	T1
3/14/01	1161991.1	1162321.2	2.49	330	48244	22756.9	71000.7							
3/21/01	1162321.4	1162321.4	2.49	0	48244	22757.1	71000.9							
4/4/01	1162321.4	1163471.7	2.54	1150	49394	22757.1	72151.2							
4/12/01	1163471.7	1164723.5	2.16	1252	50646	22757.1	73403.0							
4/19/01	1172032.3	1173267.0	2.45	1235	51881	30065.9	81946.5							
4/26/01	1179315.2	1180276.0	2.25	961	52841	36114.1	88955.5							
5/3/01	1180334.5	1181423.5	2.3	1089	53930	36172.6	90103.0							
5/10/01	1188209.3	1188209.3	2.29	0	53930	42958.4	96888.8							
5/16/01	1188209.3	1189899.1	2.29	1690	55620	42958.4	98578.6							
5/24/01	1197065.0	1198018.4	2.13	953	56574	50124.3	106697.9							
5/31/01	1198878.6	1199647.3	2.3	769	57342	50984.5	108326.8	8900	940	210	340	1500	<50	T1
6/6/01	1203386.1	1204217.2	2.32	831	58173	54723.3	112896.7							
6/14/01	1210661.4	1210661.4	2.31	0	58173	61167.5	119340.9							
6/21/01	1214124.2	1214600.0	3.41	476	58649	64630.3	123279.5							
6/28/01	1218305.1	1219387.7	2.37	1083	59732	68335.4	128067.2							
7/5/01	1222739.6	1223625.4	3.5	886	60618	71687.3	132304.9							
7/12/01	1227553.1	1228500.0	3	947	61565	75615.0	137179.5							
7/19/01	1231804.3	1232750.7	3.61	946	62511	78919.3	141430.2	CEASE PUMPING						
12/18/01	purged water from 1/4ly			238	62749	78919.3	141668.2	48000	3700	5500	1200	5300	24	T1
2/19/02	purged water from 1/4ly			246	62995	78919.3	141914.2	64000	8600	6000	1700	6800	55	T1
3/21/02	1235760.0	1235760.0		0	62995	78919.3	141914.2	set pump into RS5, restart pumping from RS-5						
3/27/02	1243817.8	1243817.8		0	62995	86977.1	149972.0							
4/11/02	1259678.6	1259678.6		0	62995	102837.9	165832.8							
5/7/02	1283903.1	1283903.1	2.22	132	63127	126930.4	190057.3	41000	9200	910	2000	6200	62	T1
6/6/02	1308480.0	1308480.0		0	63127	151507.3	214634.2							
7/18/02	1330934.8	1330934.8		0	63127	173962.1	237089.0							
8/6/02	1340694.7	1340694.7		0	63127	183722.0	246848.9	28000	5500	240	1300	2600	32	T1
9/12/02	1364301.5	1364301.5		0	63127	207328.8	270455.7	12000	270	330	130	1100	2	RS5
10/30/02	1389884.7	1389884.7		0	63127	232912.0	296038.9							
11/5/02	1392931.0	1392931.0		0	63127	235958.3	299085.2	12000	150	360	21	890	<2	RS5
12/12/02	1408784.2	1410216.0		1432	64559	251811.5	316370.2							
1/9/03	1430304.1	1431653.1		1349	65908	271899.6	337807.3							

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									
1/30/03	1447338.3	1448961.9	2.3	1624	67531	287584.8	355116.1							
2/19/03	1462658.4	1462658.4		0	67531	301281.3	368812.6							
3/13/03	1477211.2	1478624.6	2.23	1413	68945	315834.1	384778.8	240	5.5	1.9	2.3	9.6	1.4	RS5
3/26/03	1487952.3	1487952.3		0	68945	325161.8	394106.5							
4/3/03	1492921.1	1494226.5	2.27	1305	70250	330130.6	400380.7							
5/6/03	1509139.0	1510725.0	2.37	1586	71836	345043.1	416879.2	6800	1000	230	310	820	10	T1
5/21/03	1522165.2	1524709.6		2544	74381	356483.3	430863.8							
6/5/03	1536327.1	1536327.1		0	74381	368100.8	442481.3							
7/3/03	1558031.2	1558031.2		0	74381	389804.9	464185.4							
7/17/03	1567315.6	1568875.6	2.56	1560	75941	399089.3	475029.8							
8/13/03	1585901.5	1587475.1	2.41	1574	77514	416115.2	493629.3	310	1.4	<0.5	1	2.9	<0.5	RS5
9/4/03	1601163.7	1602640.5	2.67	1477	78991	429803.8	508794.7							
9/25/03	1614942.0	1614942.0		0	78991	442105.3	521096.2							
10/3/03	1619477.8	1620763.0	2.32	1285	80276	446641.1	526917.2							
10/8/03	1623572.9	1623572.9		0	80276	449451.0	529727.1							
10/14/03	1626700.0	1626700.0		0	80276	452578.1	532854.2							
10/16/03	1627622.0	1627622.0		0	80276	453500.1	533776.2							
10/24/03	1631506.9	1631506.9		0	80276	457385.0	537661.1							
10/30/03	1634530.0	1634530.0		0	80276	460408.1	540684.2							
11/6/03	1637906.5	1637906.5		0	80276	463784.6	544060.7							
11/13/03	1641361.3	1641361.3		0	80276	467239.4	547515.5							
11/20/03	1644688.6	1645991.4		1303	81579	470566.7	552145.6	17000	150	720	240	1800	0.72	RS5
11/30/03	1649967.5	1649967.5		0	81579	474542.8	556121.7							
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	1739976.0		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							

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									
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							

ams per liter (parts per billion)
grams per liter (parts per million)
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)

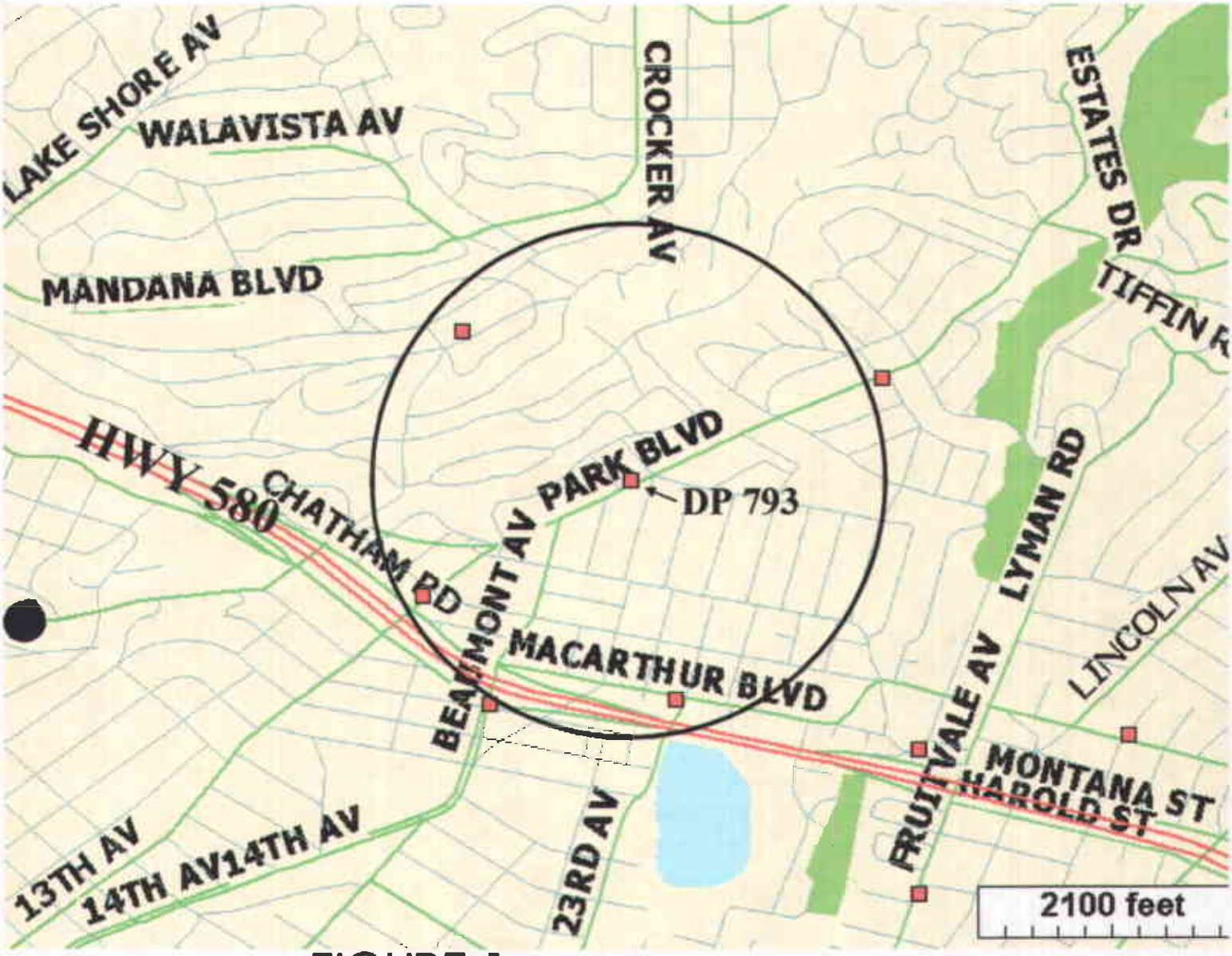

FIGURE 1
GEOTRACKER
AREA WELL & LUST MAP
DP 793
4035 PARK BLVD.
OAKLAND, CA

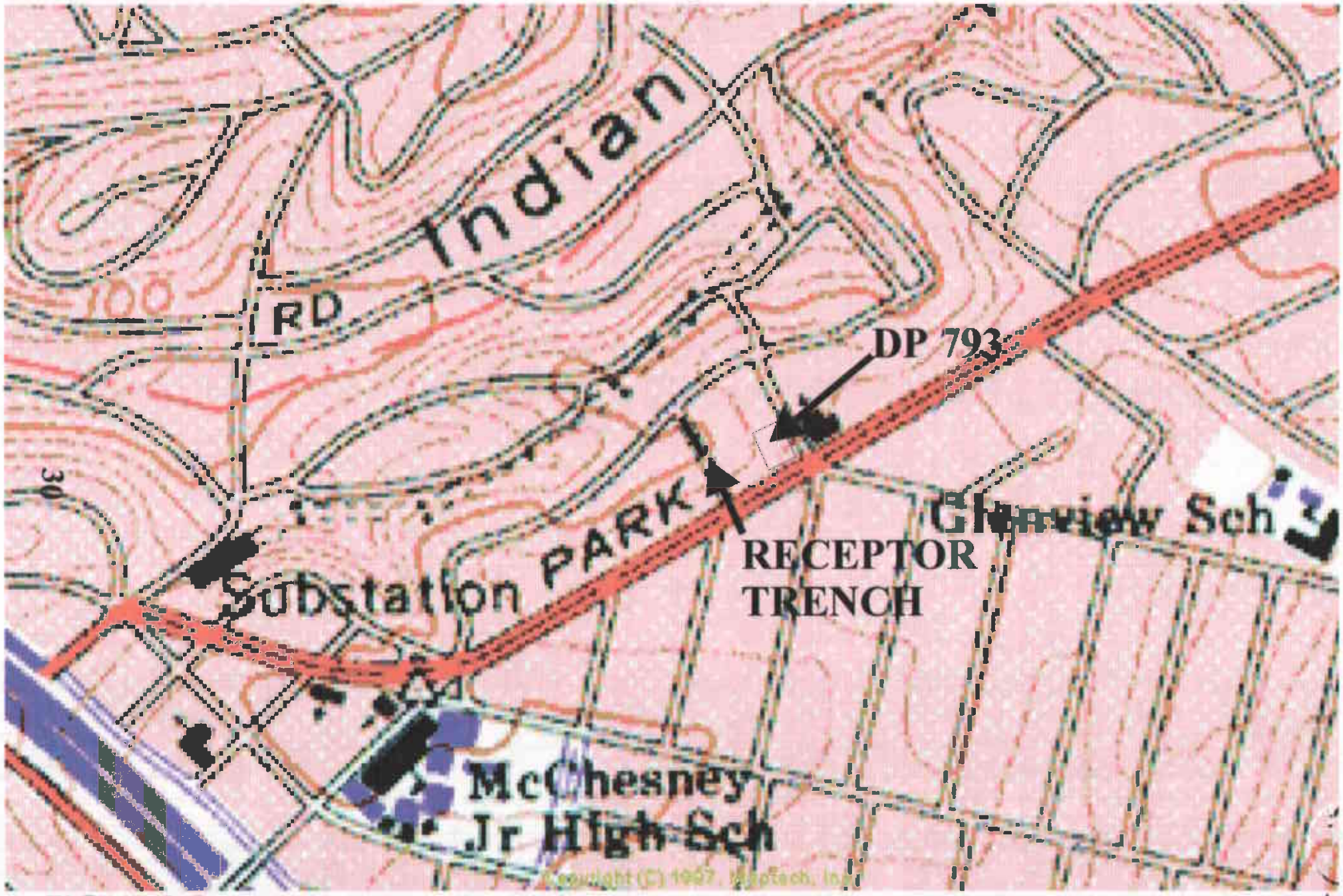

FIGURE 2

PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP

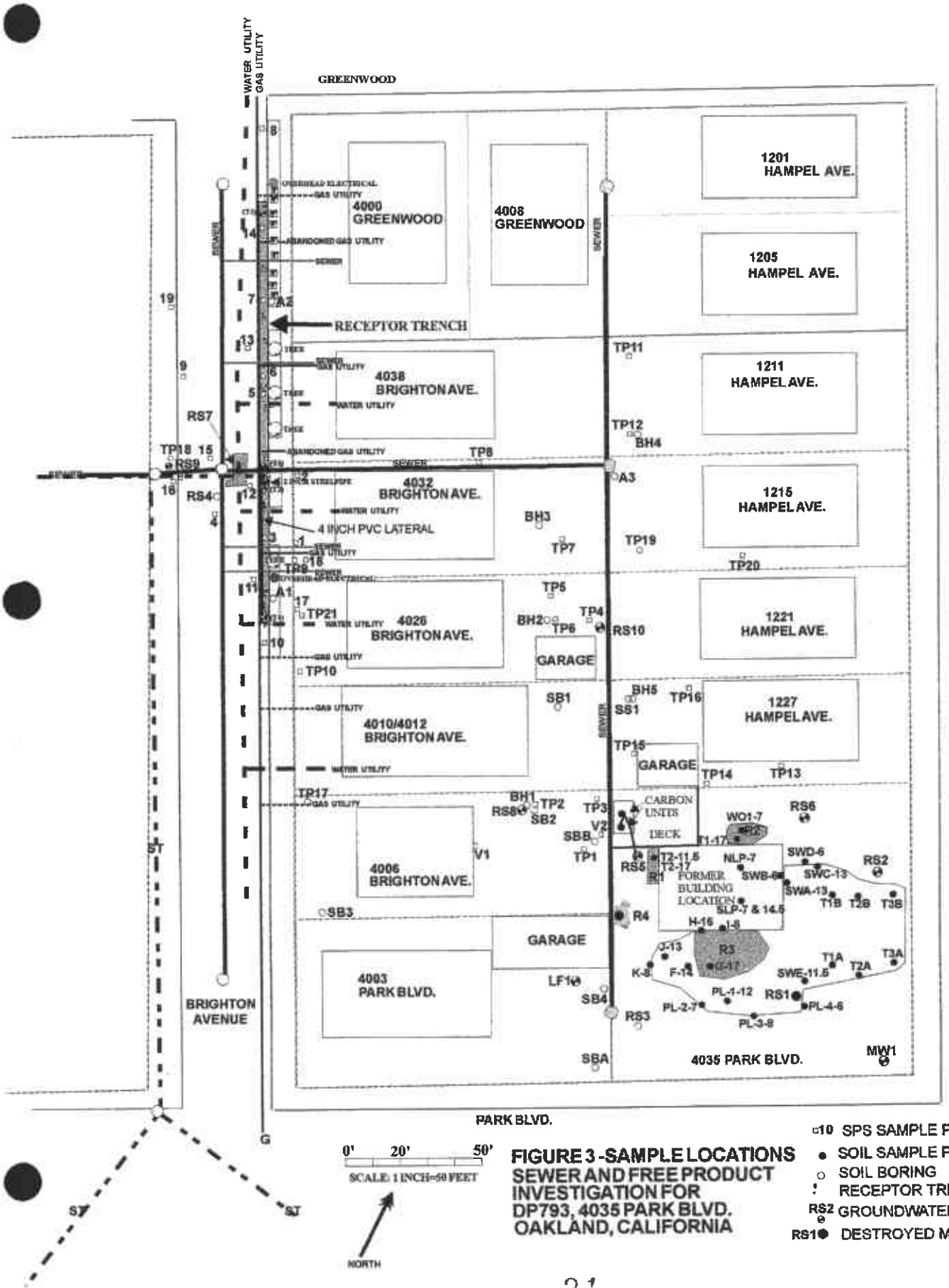

FIGURE 3 - SAMPLE LOCATIONS
SEWER AND FREE PRODUCT INVESTIGATION FOR DP793, 4035 PARK BLVD. OAKLAND, CALIFORNIA

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

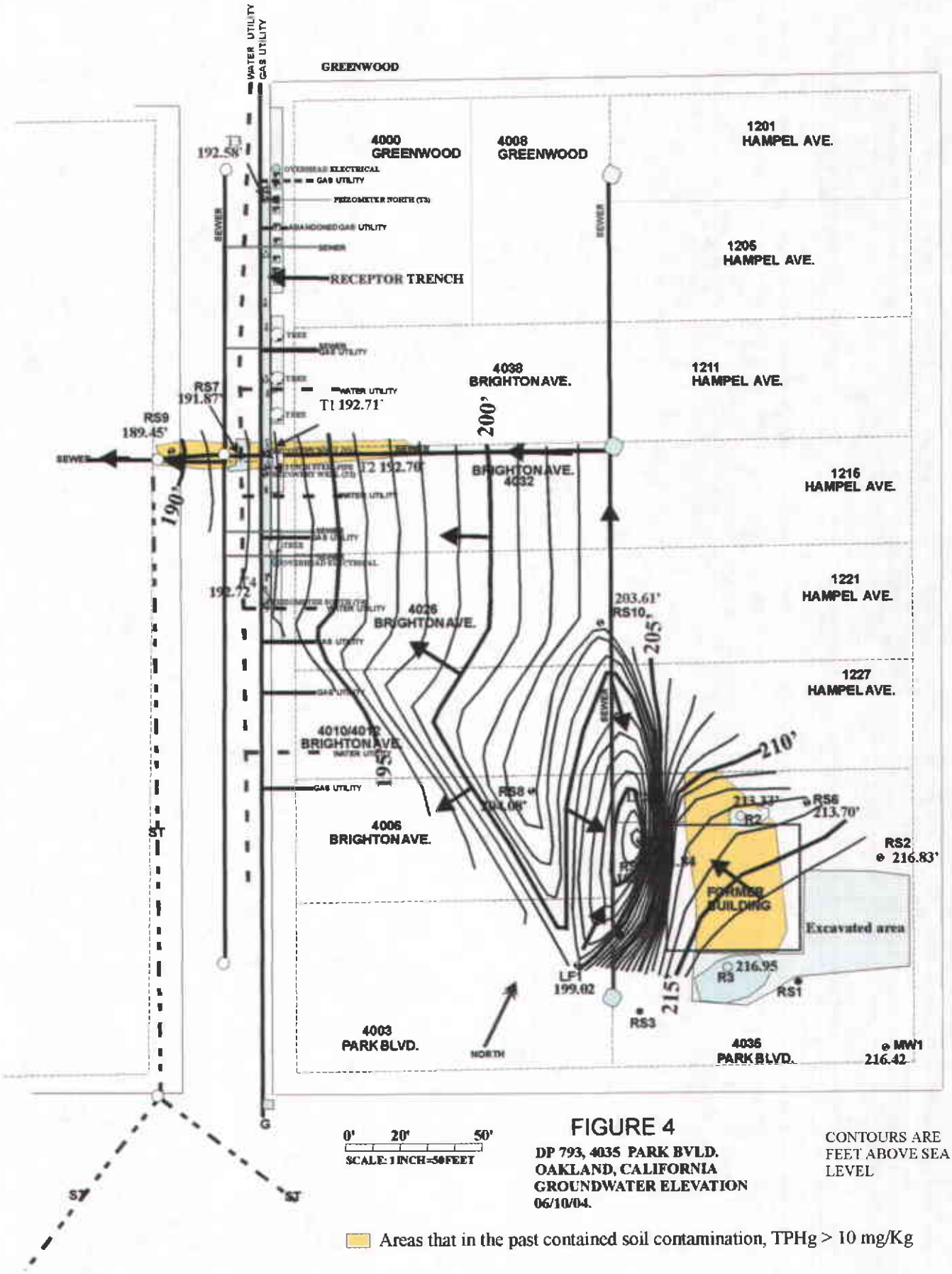

FIGURE 4

DP 793, 4035 PARK BVLD. OAKLAND, CALIFORNIA GROUNDWATER ELEVATION 06/10/04.

CONTOURS ARE FEET ABOVE SEA LEVEL

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

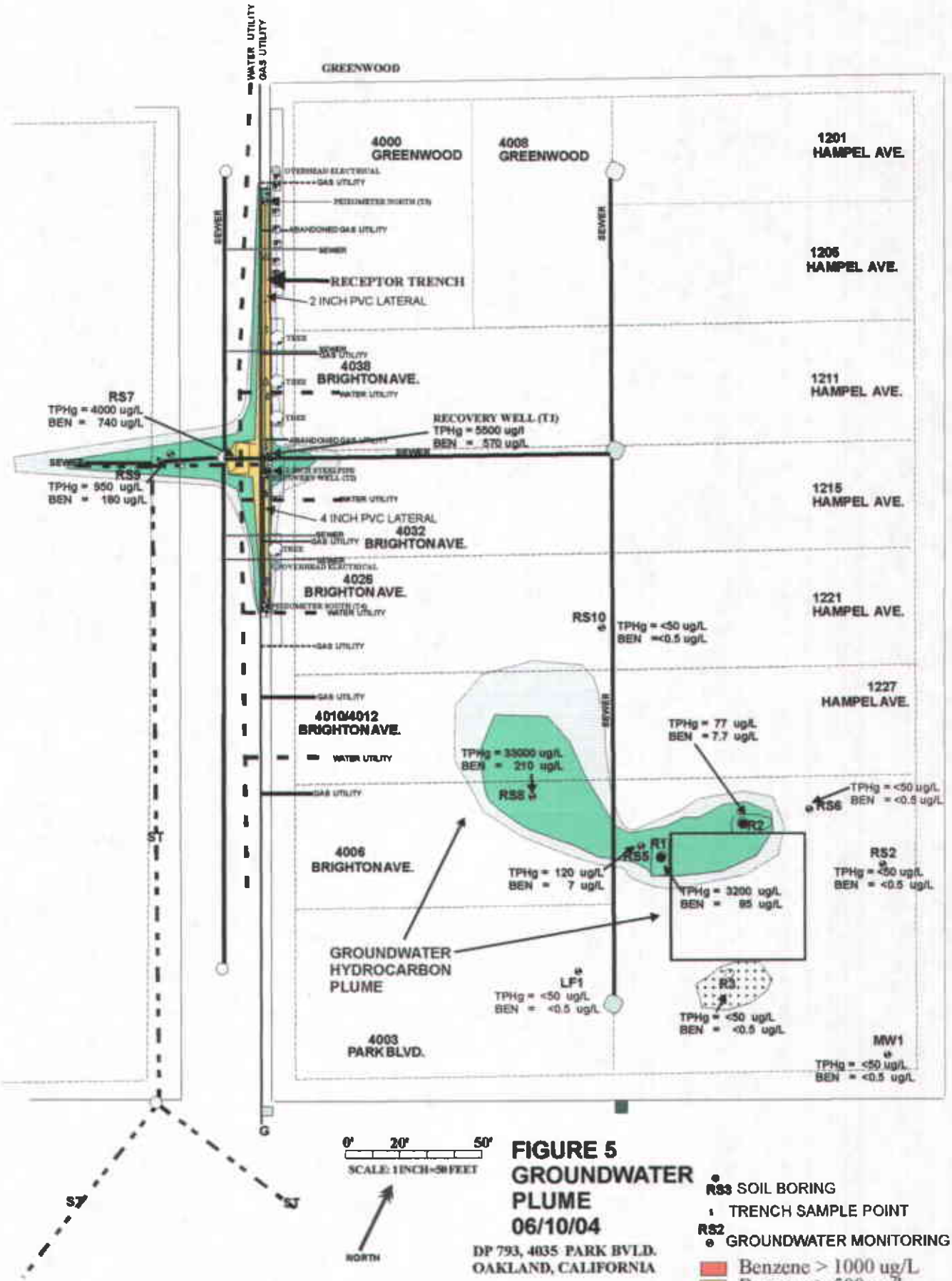

FIGURE 5
GROUNDWATER PLUME
06/10/04

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.

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 4-3-03 REASON FOR SITE VISIT Pump Trench

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.
1300		2.27			

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
13:45	9.43	9.11	20.07	11.90

RS7	RS8	RS9	RS10
—	—	—	—

R1	R2	R3	
15.44	13.20	9.03	

COMMENTS Grass & Weeds

ELECTRIC METER 16881 End / 16877 Start

WATER METER 14942265 End / 14929211 Start

SAMPLE(S) ~

SITE MONITORED BY: Broadway

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE 6 GALLONS/ 1 MINUTES GALLONS PURGED 1300
T2 FLOW RATE ___ GALLONS/ ___ MINUTES GALLONS PURGED ___

PRESSURE WATER CARBONS #1 7.2 PSI, #2 2.4 PSI.

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS OK

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 4-8-04

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 Pump problem

ELECTRIC METER _____

WATER METER 1729975.5
17 17 0 11.2
12,964.3 / 14 days

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
RW-5 2.2 gl/min intermittent

GALLONS PURGED _____
GALLONS PURGED _____

PRESSURE WATER CARBONS #1 5.5 PSI, #2 0.0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 Rusty lid - ok #2 new

CONDITION OF COMPOUND COMMENTS clean - lid was full weeds

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 4-14-04

REASON FOR SITE VISIT weekly check

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 _____

WATER METER 17341132 9:55

SAMPLE(S) none

SITE MONITORED BY: Rory Baltaga

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 5 PSI, #2 41 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS lids rusty

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 4-22-04

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 N/A

WATER METER 1739978

SAMPLE(S) None

SITE MONITORED BY: Conleve

	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 5-75 PSI, #2 0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 nearly full carbon ok #2 good

CONDITION OF COMPOUND COMMENTS good - but needs mowing

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

-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@inreach.com

FROM: George Comeaux DATE: 5-24-04

TO: City of Ashland FAX #: 510 238 2263
Chris
510 238 3759

TOTAL PAGES INCLUDING THIS PA
3

We need a permit for 5/27/04, this week.
The previous permit # ~~0604048~~ 0B040256 was for April 27, 2004.
Please fax new permit to 530 662 0273

Thank you
George Comeaux

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 4035 PARK BL Parcel# 024 -0533-007-00 Appl# OB040256

Close portion of sidewalk from curb to P/L for 1-1/2" hose for contaminated water discharge TO SANITARY SEWER on Park bet Hampel & Brighton Av(treated water) FAX permit

Permit Issued 04/27/04

4035 PARK BL

Nbr of days: 1 Linear feet: 25
Effective: 04/29/04 Expiration: 04/29/04

SHORT TERM NON-METERED

		Applcnt	Phone#	Lic# -- License Classes --
Owner	WESTERN GEO-ENGINEERS		(530)668-5300	
Contractor	WESTERN GEO-ENGINEERS	X	(530)668-5300	513857 C57
Arch/Engr				
Agent	STEPHEN BROADWAY			
Applic Addr	1386 EAST BEAMER ST, WOODLAND CA, 95776			

$13.68 TOTAL FEES PAID AT ISSUANCE

$.00	Applic	$12.00	Permit
$.00	Process	$1.08	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$.60	Tech Enh

ADDRESS:

JOB SITE

OAKLAND

DIST:

OB040256

Applicant: Fax

Issued by: 4.27.04

PERMIT

PERMIT APPLICATION BY FAX

C.E.D.A. - BUILDING SERVI[illegible]
250 FRANK H. OGAWA PLA[illegible]

SITE ADDRESS/LOCATION 4035 Park Blvd., Oakland, CA.	
DESCRIPTION OF WORK: Close portion of sidewalk from curb to PL to run 1-½" hose for contaminated water discharge on Park Blvd between Hampel & Brighton Ave.	
PROPERTY OWNER'S NAME AND ADDRESS	
TYPE OF CREDIT CARD FOR PAYMENT ☑ VISA ☐ MASTER CARD	EXPIRATION DATE ON CARD 10/05
CREDIT CARD NUMBER 4024 4280 0001 4651	APPLICATION DATE [illegible]
NAME AS IT APPEARS ON CARD Authorized Rep Weston Geo-Engineer	SIGNATURE OF CARD HOLDER [signature] Converse
CC AUTHORIZATION # [illegible] ☐ DECLINED	PERMIT # [illegible]

1. This application form must be filled out completely. INCOMPLETE APPLICATIONS CANNOT BE PROCESSED.

2. Applicant must have a letter on file with the Office of Planning and Building (OPB) which authorizes OPB to charge applications by FAX against the card contains an original signature of the card owner.

3. Permits by facsimile are accepted for the following permit types ONLY:

- Repair or replacement of main water service
- Gas meter test
- Replacement of residential wall furnaces
- Replacement of water heater
- Replacement of residential FAU's
- Replacement of electrical services in one or two residential dwelling units (R-3) up to and including 200 amps
- Small electrical work (such as adding circuits, receptacles and lights) in one or two residential dwelling units (R-3)

Contractor must maintain the facsimile copy of the permit at the job site until the original is received by mail.

REMEMBER: A faxed application for a permit IS NOT A PERMIT. An application is not valid until a permit is faxed by OPB to the contractor. If you do not recieve faxed copy within 12 hours of faxing the application, or if you have difficulty faxing an application, contact this office. The original permit will be sent by mail to the contractor's address on file.

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500).

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of the completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: 1) I am improving my principal place of residence or appurtenances thereto, 2) the work will be performed prior to sale, 3) I have resided in the residence for the 12 months prior to the completion of the work, and 4) I have not claimed exemption in this subdivision on more than two structures more than once during any three-year period. (Section 7044, Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).

☐ I am exempt under Sec. ______ B.&P.C. for this reason ______

Signature of Owner or Authorized Agent ______ Date ______

WORKER'S COMPENSATION

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier ______ Policy Number ______

(This section need not be completed if the permit is for one hundred dollars ($100-) or less)

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person, in any manner, so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: Failure to secure worker's compensation is unlawful, and shall subject an employer to criminal penalties and civil fines up to one hundred thousand dollars ($100,000), in addition to the cost of compensation, damages as provided for in Section 3706 of the Labor Code, interest, and attorney's fees.

Signature of Owner or Authorized Agent ______ Date ______

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGREE TO COMPLY WITH ALL LOCAL ORDINANCES AND STATE LAWS RELATING TO BUILDING CONSTRUCTION, AND I MAKE THIS STATEMENT UNDER PENALTY OF LAW. I HEREBY AUTHORIZE REPRESENTATIVES OF THIS CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY FOR INSPECTION PURPOSES. [illegible]

Contractor ______
Signature of Contractor or Owner or Agent ______ Date ______
Authorized Agent for: ☐ Contractor ☐ Owner ALSO PRINT NAME ______
Address for Agent ______ CITY ______ STATE ______ ZIP ______ TELEPHONE ______

LENDER

☐ I hereby affirm, under penalty of perjury, that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name ______
Lender's Address ______
City ______ State ______ Zip ______ Phone ( )

CONTRACTOR

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License # and Class 513857-C57 City Business Tax # ______

Contractor's Name Weston Geo-Engineers

Signature [signature] Phone 510 268 5300

Date ______

(OTBD-P OPB/PERMBY FAX 1/03/95)

LARGER PRINT VERSION AVAILABLE UPON REQUEST

-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@mother.com

FROM: George Converse DATE: 4-26-04

TO: City of Oakland FAX #: 510-238-2263
Chris
510 238 3759

TOTAL PAGES
INCLUDING THIS PAGE
3

We need a permit for 4/29/04, this week.
The previous permit # OB04018 was for March 29, 04.
Please fax new permit to 530 662-0273

Thankyou
George Converse

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 4035 PARK BL

Parcel# 024 -0533-007-00

Appl# OB040

Close portion of sidewalk from curb to P/L for 1-1/2" hose for contaminated water discharge TO SANITARY SEWER on Park bet Hampel & Brighton Av(treated water) FAX permit

Permit Issued 03/29

Nbr of days: 1
Effective: 03/30/04

4035 PARK BL

SHORT TERM NON-METERED

Linear feet: 25
Expiration: 03/30/04

Owner WESTERN GEO-ENGINEERS
Contractor WESTERN GEO-ENGINEERS
Arch/Engr
Agent STEPHEN BROADWAY
Applic Addr 1386 EAST BEAMER ST, WOODLAND CA, 95776

Applcnt Phone# (530)668-5300
X (530)668-5300 21385 C57

--License Classes--

JOB SITE

$13.68 TOTAL FEES PAID AT ISSUANCE
$.00 Applic
$.00 Process
$.00 Gen Plan
$.00 Other
$12.00 Permit
$1.08 Rec Mgmt
$.00 Invstg
$.60 Tech Enh

ADDRESS:

DIST:

Applicant: Fax 3-29-04

Issued by: [signature] 1

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 4-29-04 REASON FOR SITE VISIT monthly prep of trench trench

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP.	COND.
1000					
1340					
1600					

TRENCH WELL T2

PID	DTW	pH	TEMP.	COND.
	2.55			
	3.18			
	3.90			

TRENCH WELL T3

PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4

PID	DTW	pH	TEMP.	COND.
	4.70			
	5.22			

Skip pumping DEPTH TO WATER RS5 - start pump T2

TIME	MW1	RS2	RS5	RS6
1000			1.55	
1340			2.65	
1630			14.65	

RS7	RS8	RS9	RS10
4.04		2.52	
4.08		5.58	
4.07		5.65	

R1	R2	R3
	5.20	
	1.55	
	12.15	

COMMENTS Pulled pump RS-5 - kink in discharge hose. Sediment covered w/ carbon = broken

ELECTRIC METER

WATER METER 174609 4.5 T2
174687.9 RS-5
1406.6

SAMPLE(s) None

SITE MONITORED BY: Cameron

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES
T2 FLOW RATE 5.5 GALLONS/____ MINUTES

GALLONS PURGED ____
GALLONS PURGED ____

PRESSURE WATER CARBONS #1 10 PSI, #2 4t PSI, pumping trench
2.5 0.0 RS 5

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 Rusty lid - canister good #2 good

CONDITION OF COMPOUND COMMENTS Barn dust 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 2080 GALLONS

DATE 5-13-04

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 Train system off - remove bal #1 Carbon - remove 1" carbon line by carbon - replace bal. vessel system.

ELECTRIC METER _____

WATER METER 1754248.1
46094.5
8153.6

SAMPLE(s) _____

SITE MONITORED BY: Conan

	WASTEWATER INFLUENT	WASTEWATER 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 7.6 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

Carbon #1 8.5 psi before removing film
@ 1.0 after removing film
Carbon #2 0.0

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 5/28/04

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
			32.75	

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS _____

ELECTRIC METER _____

WATER METER 175893.7
179424.1
5,345.7

SAMPLE(s _____

SITE MONITORED BY: R. Patt

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 PSI, #2 0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS _____

CONDITION OF COMPOUND COMMENTS _____

32.75'

Acceptance of water phase carbon units only if completely flooded with water _____yes _____no - return to carbon manufacture
Acceplance 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 5-27-04 REASON FOR SITE VISIT weekly GM / Pumping of Trench

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

Trench — 1764065.5
RS-5 WATER METER 1762418.0 @ 10:20
1647.5

SAMPLE(S) C1-04 11:00AM
Sewer 13:10

SITE MONITORED BY: Converse

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

GALLONS PURGED
GALLONS PURGED 1647.5

PRESSURE WATER CARBONS #1 8.5 PSI, #2 5.5 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 rusty lid-ok, #2 good

CONDITION OF COMPOUND COMMENTS Clean / Lt rust around

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 6-3-04 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 Compound clean - dry, but has high weeds - notified him Man Li 6-2-04

ELECTRIC METER ________

WATER METER 1769445.0
64065
5380 gal.

SAMPLE(S) None

SITE MONITORED BY: ________

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

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

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 rusty lid #2 good

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 6-17-04 REASON FOR SITE VISIT weekly O/M

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.
1103e					

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 pumping on arrival

ELECTRIC METER None WATER METER 1778979.0 69445 9534.0

SAMPLE(s) None SITE MONITORED BY: Concrete

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 1.5 PSI, #2 0 PSI,

RS 5 1.3 gl/1 min

WATER PHASE CARBON UNITS INSPECTION COMMENTS good #1 tank lid

CONDITION OF COMPOUND COMMENTS Clean - lot weed work

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 6-25-04

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 Compound in good shape

ELECTRIC METER _____

WATER METER 1783576.7
78979
4597.7

SAMPLE(S) None

SITE MONITORED BY: Comarco

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1_____PSI, #2_____PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 rusty, lid #2 new

CONDITION OF COMPOUND COMMENTS Clean / lot neat weekly

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 6-30-09 REASON FOR SITE VISIT weekly O&M Pump Tank

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 Start Tranch @ 12:30 Pull pump RS-5 - clean & inspect #2 impeller bad, remove (was sparks with use) put pump back in. #1 stage is clean - left in. place pump back into RS-5

ELECTRIC METER

WATER METER 1787786.1
RS-5 1786027.0
1759.1

SAMPLE(S)

SITE MONITORED BY: Conera

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

GALLONS PURGED 1759.1
GALLONS PURGED ___

PRESSURE WATER CARBONS #1 8 PSI, #2 3 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

1786027
- 1783576
2451

-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

GROUNDWATER ELEVATION DATA AND PRODUCT THICKNESS MEASUREMENTS

SITE **DP 793, 4035 Park Blvd., Oakland, CA.**
DATE **June 10, 2004** START TIME 8:30
MEASURED BY **George Converse** DTW METER USED **Solinst Model 122**

WELL ID	TIME	DEPTH OF WELL feet below top of casing (fbtc)	DEPTH TO WATER (fbtc)	DEPTH TO TOP OF FLUID (fbtc)	PRODUCT THICKNESS (feet)	WATER COLUMN IN FEET	GW elev
MW01	1305	18.32	13.0	13.8		8.32	216.42
RS02	1725	18.40	10.56	10.56		7.84	216.83
RS05		39.20	7.35	7.35		± 4.2 – pumping	192.61
RS06	1333	34.06	13.52	13.52		20.54	213.70
RS07	938	7.25	4.12	4.12		3.13	191.87
RS08	1036	14.5	10.65	10.65		3.85	204.02
RS09	8:45	15.50	6.18	6.18		9.32	189.45
RS10	10:10	9.80	4.85	4.85		4.95	203.61
RO1	1330	16.8	15.85	15.85		0.95	211.84
RO2	1735	16.92	13.95	13.95		2.97	213.33
RO3	1328	11.74	10.30	10.30		1.44	216.95
LF1	11:50	38.70	27.57	27.57		11.13	194.02
T01	935	10	2.40	2.40			192.21
T02	933	10	2.60	2.60			192.70
T03	9:30	10	9.80	9.80			192.58
T04	925	10	4.76	4.76		5.24	192.32

NOTES Cal.b. Hanna pH 7.00 @ 17.4°C

RS-05 1774247.0 @ 1341 1774349.0 @ 1700 hrs
= 102 gallon / 209 min

Carbon #1 2 PSI
#2 0 PSI

1680
1341
3 hrs 29 min
180
209

-WEGE-

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GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

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

GROUNDWATER ELEVATION DATA AND PRODUCT THICKNESS MEASUREMENTS

SITE **DP 793, 4035 Park Blvd., Oakland, CA.**
DATE **May 27, 2004** START TIME 9:55
MEASURED BY **George Converse** DTW METER USED Heath

WELL ID	TIME	DEPTH OF WELL feet below top of casing (fbtc)	DEPTH TO WATER (fbtc)	DEPTH TO TOP OF FLUID (fbtc)	PRODUCT THICKNESS (feet)	WATER COLUMN IN FEET
MW01		18.32	12.57 / 12.53			
RS02		18.40	10.05 / 10.10			
RS05		39.20	27.7 / 19.35			
RS06		34.06	12.90 / 12.90			
RS07			4.10 / 4.10			
RS08		14.5				
RS09			5.96 / 6.08			
RS10						
RO1		16.8	15.65 / 15.65			
RO2		16.92	13.66 / 13.67			
RO3		11.74	9.98 / 9.99			
T01		10				
T02	9:55 /	10	2.61 / 4.35			
T03		10	9.78 / 11.25			
T04		10	4.74 / 6.42			
LF1	10:21		26.84 / 26.86			

NOTES

1st reading before pumping trench & RS-5 pumping
pumping Trench influenced RS-9, T02, T03, T04.

KIFF ANALYTICAL LLC

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

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Conene

Company/Address: Western Geo-Eng 1386 E Bacon St Woodland

Phone No.: 530 668-5200 FAX No.:

Project Number: DP 797 P.O. No:

Project Name: DP797 - Sewer

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 Conene

Analysis Request

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: SLEEVE	Container:	Container:	Container:	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Preservative:	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
C1-out	5-27-04	1120	3					✓		✓			✓						✓													24-48	
Sewer	5-27-04	1310	3					✓		✓			✓						✓													24-48	

Relinquished by:	Date	Time	Received by:
George Conene	5-27-04	1744	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	5/27/04	1744	

Remarks:

Bill to: Kiff

Forms/coc 121001.fh9

Distribution: White - Lab, Pink - Originator

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

5.5
5.56
0.95
2780
5004
$5820

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 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 15.85

DEPTH TO TOP OF WATER 15.85
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME 1655
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 0.95
G/L PURGE ONE CASING VOLUME 5.5@
(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.)
1657			0.4	21.7	6.65	1072	538		Clear, no odor
1700		0.7	1.5	20.2	6.71	1112	557		
1704			4.5	21.0	6.71	1119	559		
1707			7.5	21.2	6.72	1105	552		
1712			10.5	21.1	6.73	1088	543		
1716			13.5	21.1	6.73	1083	541		
							DTW	160'	

FINAL VOLUME PURGED 14.0 L
TIME SAMPLED 1717
SAMPLE ID# **R-01**
NOTES

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

EQ Blank @1748

-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

RS-05

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 2004**
WELL ID# ~~**RS-06**~~ RS-05
CASING ELEVATION, IN FEET ~~**227.22**~~
CASING TOTAL DEPTH, IN FEET ~~**34.06**~~
CASING DIAMETER IN INCHES **4"**
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.)
		Pump		22.0	7.10	742	371		

FINAL VOLUME PURGED
TIME SAMPLED 1625
SAMPLE ID# ~~**RS-06**~~ RS-05
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 **JUNE 10, 2004**
WELL ID# **RS-07**
CASING ELEVATION, IN FEET **195.99**
CASING TOTAL DEPTH, IN FEET 7.25
CASING DIAMETER IN INCHES **4"**
DEPTH TO TOP OF FLUID 4.12

DEPTH TO TOP OF WATER 4.12
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME 11:10
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 3.13
G/L PURGE ONE CASING VOLUME 7.7 Q
(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)
FT³ WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used **HANNA HI 99130**

3.13
2.46
1878
1252
626
7.7 9 8

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.)
11:15			1.5	20.4	6.57	816	406		clear
11:17			4.5	21.4	6.59	801	402		
11:19		1.2	6.0	21.8	6.60	738	368		clear
11:20			7.5	22.0	6.63	712	354		
11:21			9.0	22.3	6.68	689	344		
11:23			10.7	22.4	6.70	682	341		
11:26			13.7	22.4	6.69	675	337		
11:28			16.7	22.4	6.70	671	335		mod gas odor
								DTW	4.21

187 Hz
447 Hz
137

FINAL VOLUME PURGED 11.0 e
TIME SAMPLED 11:30
SAMPLE ID# **RS-07**
NOTES

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

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WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 2004**
WELL ID# **RS-08**
CASING ELEVATION, IN FEET **214.67**
CASING TOTAL DEPTH, IN FEET **14.5**
CASING DIAMETER IN INCHES **2"**
DEPTH TO TOP OF FLUID 10.65

DEPTH TO TOP OF WATER 10.65
TOP OF WATER ELEVATION
PUMP TYPE **DISPOSABLE BAILER**
DTW METER USED **SOLINST MODEL 122**

START TIME 1076
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 3.85
G/L PURGE ONE CASING VOLUME 0.63 gl
(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**

5
3.85
-1.65
19 25
23 10
38 5
63525

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.)
10:45			0.25	15.6	6.10	802	400		Light tan clear no odor
1048			1.5	15.7	7.10	846	423		Tan then med color
1050			2.0	15.8	7.10	854	427		
									DTW 12.60

FINAL VOLUME PURGED 2.25
TIME SAMPLED 1055
SAMPLE ID# **RS-08**
NOTES

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

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WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 2004**
WELL ID# **RS-09**
CASING ELEVATION, IN FEET **195.63**
CASING TOTAL DEPTH, IN FEET **15.50**
CASING DIAMETER IN INCHES **2"**
DEPTH TO TOP OF FLUID 6.18

DEPTH TO TOP OF WATER 6.18
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME 8:45
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 9.32
G/L PURGE ONE CASING VOLUME 5.82
(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.)
8:50	14.0		1.2	18.1	6.24	~~1871~~ 662	~~662~~ 319		clear brown
8:55		1.2	3.0	18.3	6.23	584	290		
8:56			4.7	18.6	6.24	530	266		water clear
8:57			7.2	18.9	6.23	573	288		
8:58			8.7	18.9	6.24	596	297		
9:00			10.2	18.9	6.25	598	299		
9:01			11.7	18.9	6.26	607	302		water clear
9:02			13.4	18.9	6.27	612	307		
9:03			15.0	19.0	6.28	614	308		~1/2 water = sewer
									water flow
								DTW	9.58'

FINAL VOLUME PURGED 18.0 L
TIME SAMPLED 0905
SAMPLE ID# **RS-09**
NOTES

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

188.4 L

11
9.32
-.625
4660
1864
5592
58250

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WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 2004**
WELL ID# **RS-10**
CASING ELEVATION, IN FEET **208.46**
CASING TOTAL DEPTH, IN FEET **9.80**
CASING DIAMETER IN INCHES **2"**
DEPTH TO TOP OF FLUID **4.85**

DEPTH TO TOP OF WATER **4.85**
TOP OF WATER ELEVATION
PUMP TYPE **DISPOSABLE BAILER**
DTW METER USED **SOLINST MODEL 122**

START TIME
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET **4.95**
GAL PURGE ONE CASING VOLUME **0.8 gl**
(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 Hand Bail
pH, Cond, Temp meter used **HANNA HI 99130**

5 x 4.95 = .165 = 2475 2970 495 8175

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.)
1012			0.25	16.3	6.52	706	351		cloudy no odor
1016			1.0	16.4	6.25	342	171		
1020			2.0	16.4	6.09	298	149		
1028			2.5	16.3	6.06	286	144		
1023			3.0	16.3	6.03	285	142		cloudy brown no odor
								DTW	
								7.95	

FINAL VOLUME PURGED **3.25**

TIME SAMPLED **10:25**

SAMPLE ID# **RS-10**

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

NOTES

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WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 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 **13.0**

DEPTH TO TOP OF WATER **13.0**
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET **8.32**
G/L PURGE ONE CASING VOLUME **5.2 L**
(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**

8.32 × .625 = 5.2 L
40 60
16 64
4992
5.19900

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.)
1308	18.0	1.2	0.6	20.8	6.58	423	210		water cloudy
1310			3.0	21.3	6.35	404	203		water clear
1314			6.0	22.2	6.26	424	212		
1317			9.0	22.4	6.23	430	215		water clear
1320			12.0	22.5	6.20	435	217		Dedoled
			13.0	Dedoled					
1350			~~15.5~~						

FINAL VOLUME PURGED 15.5 L
TIME SAMPLED 1350
SAMPLE ID# **MW-01**
NOTES

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

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3
7.84
2.46
4804
3136
1568
19264

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 2004**
WELL ID# **RS-02**
CASING ELEVATION, IN FEET **227.39**
CASING TOTAL DEPTH, IN FEET **18.40**
CASING DIAMETER IN INCHES **4"**
DEPTH TO TOP OF FLUID 10.56

DEPTH TO TOP OF WATER 10.56
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME 1410
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 7.84
G/L PURGE ONE CASING VOLUME 19.2 ℓ
(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.)
1410			0.5	21.6	6.54	1522	760		water clear
1414			3.0	20.9	6.56	1551	775		no odor
1419		120	6.0	21.5	6.62	1545	772		
1423			9.0	21.8	6.65	1537	768		water clear
1428			12.0	22.0	6.69	1516	757		
1432			15.0	22.1	6.69	1503	751		light clear
1436			18.0	22.2	6.70	1498	749		
1422			21.0	22.2	6.71	1498	749		
								DTW	11.90'

163 ℓ

FINAL VOLUME PURGED 22.0 ℓ
TIME SAMPLED 1425
SAMPLE ID# **RS-02**
NOTES

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

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RS-06

WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 2004**
WELL ID# ~~**RS-05**~~ RS-06
CASING ELEVATION, IN FEET ~~**227.61**~~
CASING TOTAL DEPTH, IN FEET ~~**39.20**~~ 34.66
CASING DIAMETER IN INCHES **4"**
DEPTH TO TOP OF FLUID 13.52

DEPTH TO TOP OF WATER 13.52
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS ~~4 INCH~~** 2 inch
DTW METER USED **SOLINST MODEL 122**

START TIME 1450
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 20.54
G/L PURGE ONE CASING VOLUME 50.62
(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**

3 2.
2.46
20.54
9 8 4
1 3 0
4920
50.6284

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.)
208 HL 1450	36.0	1.4	0.5	20.8	6.68	1250	626		water clear
1452			3.0	20.7	6.63	1170	584		no odor
1500			9.0	21.3	6.71	1043	522		
1505			15.0	21.7	6.50	1048	522		
1509			21.0	22.0	6.60	1035	517		
1514			27.0	22.0	6.60	1035	517	Sample	
124 HL									
								DTW	18.0'

FINAL VOLUME PURGED 29.0 L

TIME SAMPLED 1520

SAMPLE ID# ~~**RS-05**~~ RS-06

NOTES

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

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WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 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 17.95
DEPTH TO TOP OF WATER 13.98
TOP OF WATER ELEVATION
PUMP TYPE **GRUNDFOS REDIFLOW 2**
DTW METER USED **SOLINST MODEL 122**

START TIME 1610
SAMPLE BY **CONVERSE**
WATER COLUMN, IN FEET 2.97
G/L PURGE ONE CASING VOLUME 16.50
(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**

4 3
5 4
2.97
5.56
1782
1485
1485
16513 2

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.)
1610	16.0	~~.9~~	0.7	20.1	6.62	1566	781		
1615		0.9	3.0	19.7	6.70	1540	771		water clear
1618			6.0	19.9	6.70	1544	776		
1622			9.0	20.0	6.70	1561	781		
1626			12.0	20.1	6.69	1562	782		
1630			15.0	20.2	6.69	1565	782		
1634			18.0	20.6	6.58	~~1559~~ 1562	782		
1636			19.5	20.5	6.57	1565	782		
			20.5						
								DTW 14.2	

1 FT Hz
1 Hz

FINAL VOLUME PURGED 20.5
TIME SAMPLED 1638
SAMPLE ID# **R-02**
NOTES

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

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WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 2004** START TIME
WELL ID# **R-03** SAMPLE BY **CONVERSE**
CASING ELEVATION, IN FEET **227.25** WATER COLUMN, IN FEET 1.44
CASING TOTAL DEPTH, IN FEET **11.74** G/L PURGE ONE CASING VOLUME 8.00
CASING DIAMETER IN INCHES **6"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
DEPTH TO TOP OF FLUID 10.30 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 10.30 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**

1.44 × 5.56 = 8.00
8 × 4 = 32
32 × 2 = 64
64 × 1.47 = 94.08

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.)
1535		0.8	0.4	22.1	6.70	1284	644		clear no odor
1536			1.7	21.5	6.80	1313	657		
1538			3.0	22.0	6.83	1309	655		
1542			6.0	22.4	6.88	1294	646		
1545			9.0	22.5	6.90	1276	637		very slt clear
1548			12.0	22.5	6.92	1263	631		
1552			15.0	22.5	6.93	1259	629		
1555			16.5	22.6	6.93	1259	630		
								DTW	
								1035	

1.34

FINAL VOLUME PURGED 18.0 L ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
TIME SAMPLED 1553 SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
SAMPLE ID# **R-03** LABORATORY USED **KIFF Analytical**
NOTES

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WELL SAMPLE DATA SHEET

SITE **DP 793, 4035 PARK BLVD., OAKLAND, CA.**
DATE **JUNE 10, 2004** START TIME
WELL ID# **RECEPTOR TRENCH T1, T2, T3, T4** SAMPLE BY **CONVERSE**
T4
CASING ELEVATION, IN FEET ~~**T2=195.30**~~ WATER COLUMN, IN FEET 5.24
CASING TOTAL DEPTH, IN FEET **10** G/L PURGE ONE CASING VOLUME 3.3 R
CASING DIAMETER IN INCHES ~~**2"**~~ 2"
DEPTH TO TOP OF FLUID 4.76
(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)
DEPTH TO TOP OF WATER 4.76
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**

5.24
×0.625
2620
1048
3144
3.27500

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.)
925	9.4	1.4	0.6	18.8	6.38	577	288		water clear
944			3.0	20.2	6.26	580	291		not clear
946			4.5	20.8	6.33	581	291		
947			6.0	21.0	6.34	583	291		
950			7.8	21.2	6.34	583	292		
951			9.4	21.3	6.33	582	291		
								DTW	4.80

151 Hz
.35
4
14

FINAL VOLUME PURGED 11.0 Q
ANALYSIS INCLUDES: **8260B TPHg, BTEX, MtBE**
TIME SAMPLED 952
SAMPLE CONTAINERS **3-HCl PRESERVED 40CC VOA'S**
SAMPLE ID# **T-01**
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 **JUNE 10, 2004** START TIME 11:50
WELL ID# **LF-01** SAMPLE BY **CONVERSE**
CASING ELEVATION, IN FEET **226.59** WATER COLUMN, IN FEET 11.13
CASING TOTAL DEPTH, IN FEET **38.70** G/L PURGE ONE CASING VOLUME 6.95 ℓ
CASING DIAMETER IN INCHES **2"** (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
DEPTH TO TOP OF FLUID 27.57 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 27.57 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**

11.13 × .625 = 5565 + 2226 = 6678 → 6.95 ℓ

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.)
1210	38.0	0.52	0.5	20.4	6.76	670	336		muddy
1214			1.5	21.0	6.55	627	312		clearing muddy
1216			3.0	20.8	6.51	631	315		
1218		0.65	14.5	20.9	6.49	635	317		water clear
1221			6.0	21.2	6.48	635	318		
1225			9.0	21.5	6.43	629	314		
1230			12.0	21.7	6.41	630	315		
1236			15.0	21.9	6.40	630	316		
								DTW 33.80'	

130 Hz
157 Hz

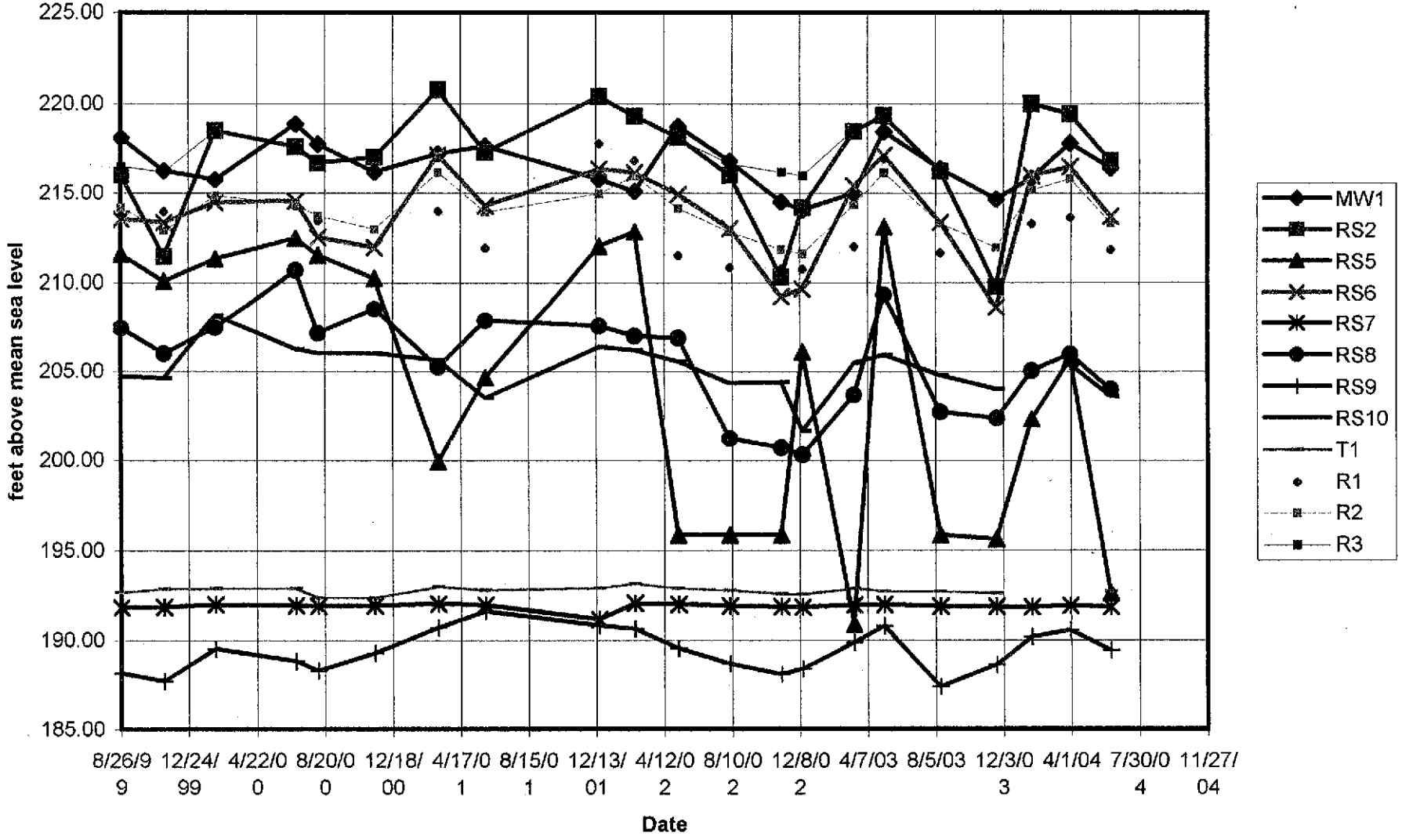
FINAL VOLUME PURGED 16.0 ℓ
TIME SAMPLED 12:38
SAMPLE ID# **LF-01**
NOTES

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

APPENDIX B.

GROUNDWATER ELEVATION CHART

Groundwater Elevation



APPENDIX C.

LABORATORY REPORTS

KIFF ANALYTICAL LLC

Report Number : 38712
Date : 6/18/2004

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

Subject : 14 Water Samples
Project Name : DP 793 - 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 : 38712
Date : 6/18/2004

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

Sample : **MW-01** Matrix : Water Lab Number : 38712-01
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	6/16/2004

Sample : **RS-02** Matrix : Water Lab Number : 38712-02
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/16/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 38712
Date : 6/18/2004

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

Sample : **RS-05** Matrix : Water Lab Number : 38712-03
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**7.0**	0.50	ug/L	EPA 8260B	6/16/2004
Toluene	**0.88**	0.50	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	**1.3**	0.50	ug/L	EPA 8260B	6/16/2004
Total Xylenes	**4.3**	0.50	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	**1.3**	0.50	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	**120**	50	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	6/16/2004

Sample : **RS-06** Matrix : Water Lab Number : 38712-04
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/12/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/12/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/12/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/12/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/12/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/12/2004
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	6/12/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	6/12/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 38712
Date : 6/18/2004

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

Sample : **RS-07** Matrix : Water Lab Number : 38712-05
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**740**	1.5	ug/L	EPA 8260B	6/16/2004
Toluene	**22**	1.5	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	**82**	1.5	ug/L	EPA 8260B	6/16/2004
Total Xylenes	**130**	1.5	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	**2.8**	1.5	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	**4000**	200	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	6/16/2004

Sample : **RS-08** Matrix : Water Lab Number : 38712-06
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**210**	5.0	ug/L	EPA 8260B	6/16/2004
Toluene	**350**	5.0	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	**360**	5.0	ug/L	EPA 8260B	6/16/2004
Total Xylenes	**2300**	5.0	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	**33000**	500	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	6/16/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 38712
Date : 6/18/2004

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

Sample : **RS-09** Matrix : Water Lab Number : 38712-07
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**180**	0.50	ug/L	EPA 8260B	6/16/2004
Toluene	**3.0**	0.50	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	**8.4**	0.50	ug/L	EPA 8260B	6/16/2004
Total Xylenes	**14**	0.50	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	**8.7**	0.50	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	**950**	50	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	93.0		% Recovery	EPA 8260B	6/16/2004

Sample : **RS-10** Matrix : Water Lab Number : 38712-08
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/15/2004
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	6/15/2004
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	6/15/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 38712
Date : 6/18/2004

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

Sample : **LF-01** Matrix : Water Lab Number : 38712-09
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/15/2004
Toluene - d8 (Surr)	95.1		% Recovery	EPA 8260B	6/15/2004
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	6/15/2004

Sample : **T1** Matrix : Water Lab Number : 38712-10
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**570**	1.5	ug/L	EPA 8260B	6/16/2004
Toluene	**2.0**	1.5	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	**240**	1.5	ug/L	EPA 8260B	6/16/2004
Total Xylenes	**130**	1.5	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	**2.7**	1.5	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	**5500**	200	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	96.1		% Recovery	EPA 8260B	6/16/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 38712
Date : 6/18/2004

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

Sample : **R-01** Matrix : Water Lab Number : 38712-11
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**85**	0.50	ug/L	EPA 8260B	6/15/2004
Toluene	**2.6**	0.50	ug/L	EPA 8260B	6/15/2004
Ethylbenzene	**38**	0.50	ug/L	EPA 8260B	6/15/2004
Total Xylenes	**8.3**	0.50	ug/L	EPA 8260B	6/15/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
TPH as Gasoline	**3200**	50	ug/L	EPA 8260B	6/15/2004
Toluene - d8 (Surr)	87.8		% Recovery	EPA 8260B	6/15/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	6/15/2004

Sample : **R-02** Matrix : Water Lab Number : 38712-12
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**7.7**	0.50	ug/L	EPA 8260B	6/16/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	**77**	50	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	109		% Recovery	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	91.3		% Recovery	EPA 8260B	6/16/2004

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 38712
Date : 6/18/2004

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

Sample : **R-03** Matrix : Water Lab Number : 38712-13
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/15/2004
Toluene - d8 (Surr)	92.4		% Recovery	EPA 8260B	6/15/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	6/15/2004

Sample : **EB** Matrix : Water Lab Number : 38712-14
Sample Date :6/10/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/15/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/15/2004
Toluene - d8 (Surr)	95.0		% Recovery	EPA 8260B	6/15/2004
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	6/15/2004

Approved By: Joel Kiff

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

Report Number : 38712

Date : 6/18/2004

QC Report : Method Blank Data

Project Name : **DP 793 - 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	6/16/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	98.7		%	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	90.8		%	EPA 8260B	6/16/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/15/2004
Toluene - d8 (Surr)	95.1		%	EPA 8260B	6/15/2004
4-Bromofluorobenzene (Surr)	97.9		%	EPA 8260B	6/15/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/12/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/12/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/12/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/12/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/12/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/12/2004
Toluene - d8 (Surr)	103		%	EPA 8260B	6/12/2004
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	6/12/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/15/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/15/2004
Toluene - d8 (Surr)	103		%	EPA 8260B	6/15/2004
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	6/15/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/16/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/16/2004
Toluene - d8 (Surr)	110		%	EPA 8260B	6/16/2004
4-Bromofluorobenzene (Surr)	91.4		%	EPA 8260B	6/16/2004

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 38712

Date : 6/18/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP 793 - 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	38737-01	<0.50	40.1	39.8	39.4	40.0	ug/L	EPA 8260B	6/16/04	98.3	100	2.16	70-130	25
Toluene	38737-01	<0.50	40.1	39.8	38.8	39.4	ug/L	EPA 8260B	6/16/04	96.8	98.8	1.98	70-130	25
Tert-Butanol	38737-01	<5.0	200	199	181	180	ug/L	EPA 8260B	6/16/04	90.4	90.4	0.0638	70-130	25
Methyl-t-Butyl Ether	38737-01	<0.50	40.1	39.8	39.5	39.5	ug/L	EPA 8260B	6/16/04	98.6	99.2	0.598	70-130	25
Benzene	38730-02	0.70	40.0	40.0	40.8	39.0	ug/L	EPA 8260B	6/15/04	100	95.7	4.76	70-130	25
Toluene	38730-02	1.6	40.0	40.0	39.0	37.6	ug/L	EPA 8260B	6/15/04	93.3	90.0	3.60	70-130	25
Tert-Butanol	38730-02	<5.0	200	200	199	203	ug/L	EPA 8260B	6/15/04	99.6	102	1.92	70-130	25
Methyl-t-Butyl Ether	38730-02	<0.50	40.0	40.0	45.6	45.0	ug/L	EPA 8260B	6/15/04	114	112	1.21	70-130	25
Benzene	38712-04	<0.50	40.0	40.0	38.8	38.0	ug/L	EPA 8260B	6/12/04	96.9	94.9	2.02	70-130	25
Toluene	38712-04	<0.50	40.0	40.0	39.2	38.6	ug/L	EPA 8260B	6/12/04	98.1	96.4	1.74	70-130	25
Tert-Butanol	38712-04	<5.0	200	200	238	230	ug/L	EPA 8260B	6/12/04	119	115	3.32	70-130	25
Methyl-t-Butyl Ether	38712-04	<0.50	40.0	40.0	41.3	41.1	ug/L	EPA 8260B	6/12/04	103	103	0.473	70-130	25
Benzene	38773-01	<0.50	40.0	40.0	39.9	38.9	ug/L	EPA 8260B	6/15/04	99.8	97.3	2.54	70-130	25
Toluene	38773-01	<0.50	40.0	40.0	40.3	39.6	ug/L	EPA 8260B	6/15/04	101	98.9	1.81	70-130	25
Tert-Butanol	38773-01	<5.0	200	200	227	230	ug/L	EPA 8260B	6/15/04	114	115	1.42	70-130	25
Methyl-t-Butyl Ether	38773-01	<0.50	40.0	40.0	42.4	42.1	ug/L	EPA 8260B	6/15/04	106	105	0.870	70-130	25
Benzene	38769-02	<0.50	40.0	40.0	38.5	38.1	ug/L	EPA 8260B	6/16/04	96.4	95.2	1.19	70-130	25
Toluene	38769-02	<0.50	40.0	40.0	38.3	37.5	ug/L	EPA 8260B	6/16/04	95.8	93.8	2.16	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 38712

Date : 6/18/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP 793 - 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	38769-02	38	200	200	225	227	ug/L	EPA 8260B	6/16/04	93.6	94.8	1.32	70-130	25
Methyl-t-Butyl Ether	38769-02	14	40.0	40.0	50.7	49.6	ug/L	EPA 8260B	6/16/04	92.6	89.8	3.07	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 38712

QC Report : Laboratory Control Sample (LCS)

Date : 6/18/2004

Project Name : **DP 793 - 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	6/15/04	97.6	70-130
Toluene	40.0	ug/L	EPA 8260B	6/15/04	98.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/15/04	88.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/15/04	99.0	70-130
Benzene	40.0	ug/L	EPA 8260B	6/15/04	102	70-130
Toluene	40.0	ug/L	EPA 8260B	6/15/04	88.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/15/04	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/15/04	112	70-130
Benzene	40.0	ug/L	EPA 8260B	6/12/04	96.7	70-130
Toluene	40.0	ug/L	EPA 8260B	6/12/04	99.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/12/04	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/12/04	104	70-130
Benzene	40.0	ug/L	EPA 8260B	6/15/04	97.7	70-130
Toluene	40.0	ug/L	EPA 8260B	6/15/04	97.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/15/04	108	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/15/04	105	70-130
Benzene	40.0	ug/L	EPA 8260B	6/16/04	92.5	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 38712

Date : 6/18/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP 793 - 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	6/16/04	92.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/16/04	92.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/16/04	87.0	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. 38712 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: WEGE 1386 E Beamer St Woodland

Phone No.: 530 668 5300 FAX No.:

Project Number: DP 793 P.O. No:

Project Name: DP 793 - 14 Lf

Project Address: Oakland

California EDF Report? [X] 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

Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	SLEEVE				Preservative: HCl	HNO_3	ICE	NONE		Matrix: 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
MW-01	6-10-04	1350	3					✓		✓			✓							✓													1wk	-01
RS-02		1425	3					✓		✓			✓							✓														-02
RS-05		1625	3					✓		✓			✓							✓														-03
RS-06		1520	3					✓		✓			✓							✓														-04
RS-07		1130	3					✓		✓			✓							✓														-05
RS-08		1655	3					✓		✓			✓							✓														-06
RS-09		905	3					✓		✓			✓							✓														-07
RS-10		1025	3					✓		✓			✓							✓														-08
LF-01		1238	3					✓		✓			✓							✓														-09
T1		952	3					✓		✓			✓							✓														-10

Relinquished by:	Date	Time	Received by:	Remarks:
G Converse	6-11-04	840		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	061104	0840	[signature] Kiff Analytical	Wege

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. 38712 Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Comeau
Company/Address: WEGE
Phone No.: FAX No.:
Project Number: DP 793
Project Name: DP 793 - 4th St
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 Comeau

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
R-01	6/4/04	1717	3		/		/		/						✓									W	4-11
R-02		1638	3		/		/		/						✓										-12
R-03		1555	3		/		/		/						✓										-13
EB		1715	3		/		/		/						✓										-14

Relinquished by:	Date	Time	Received by:
George Comeau	6/4/04	840	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	06/11/04	0840	Jeremy D. Jenkins (KIFF ANALYTICAL)

Remarks:

Bill to: WEGE

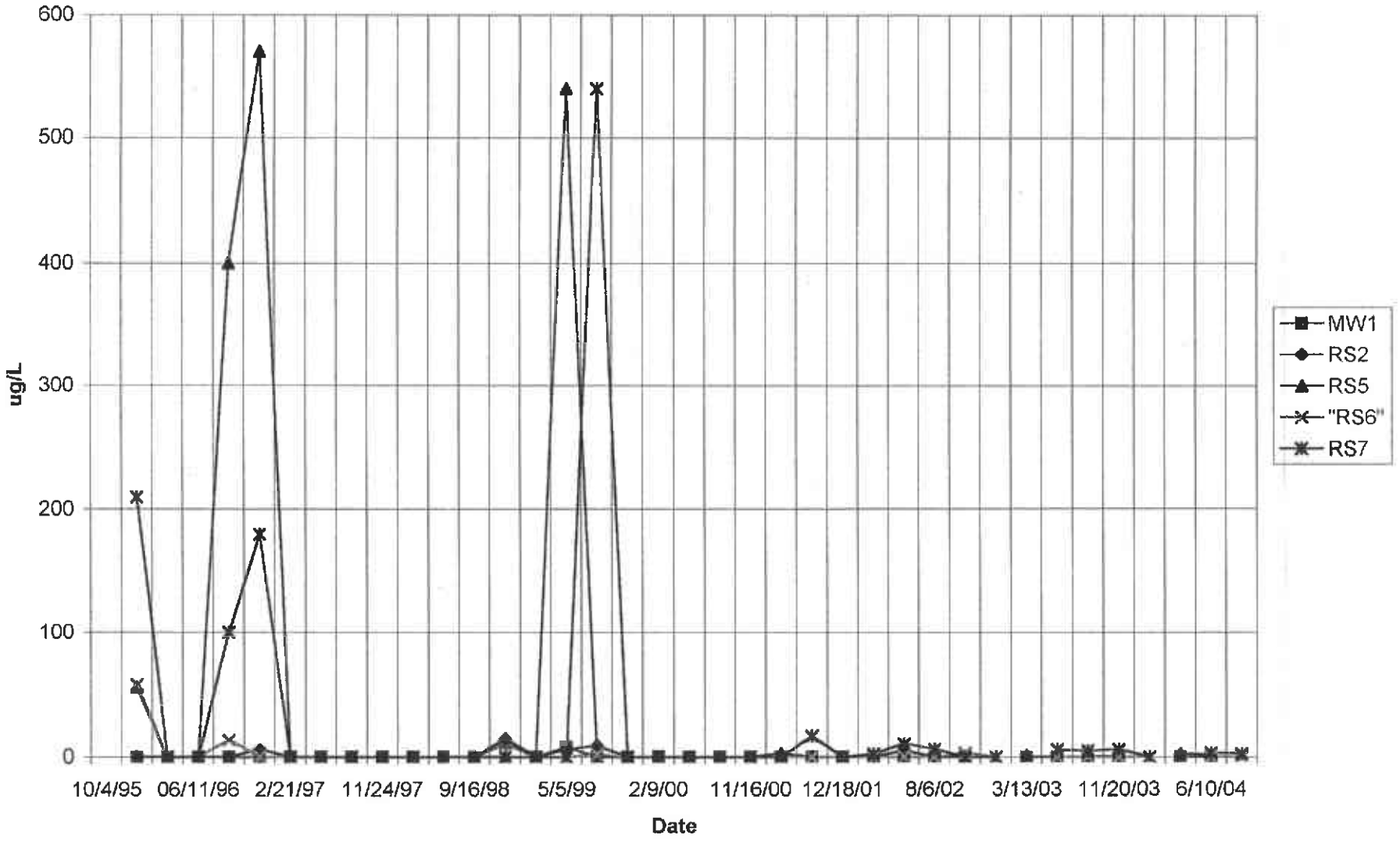
Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

APPENDIX D.

MtBE, TPHg AND BENZENE CHARTS

MTBE IN WELLS



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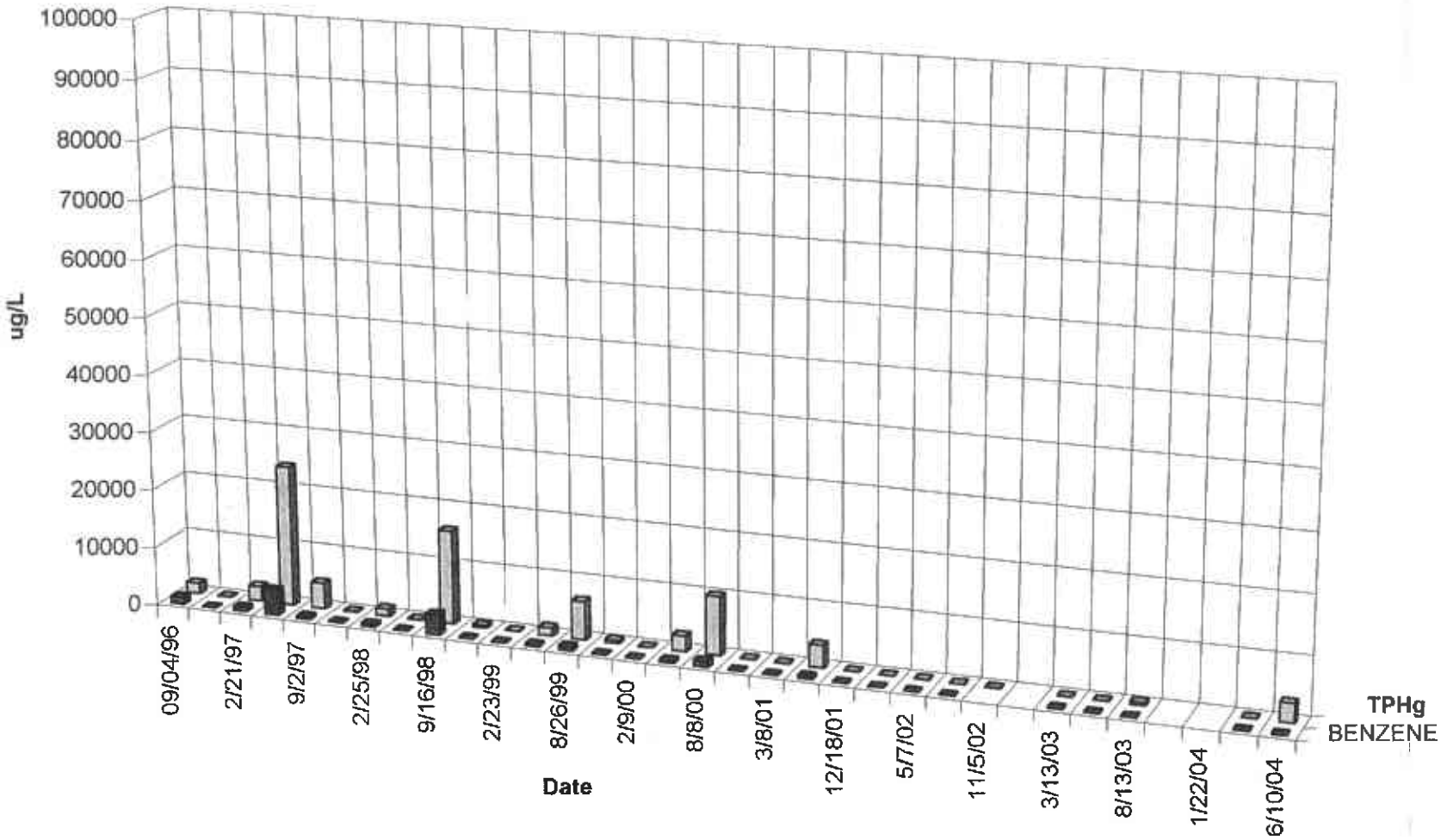
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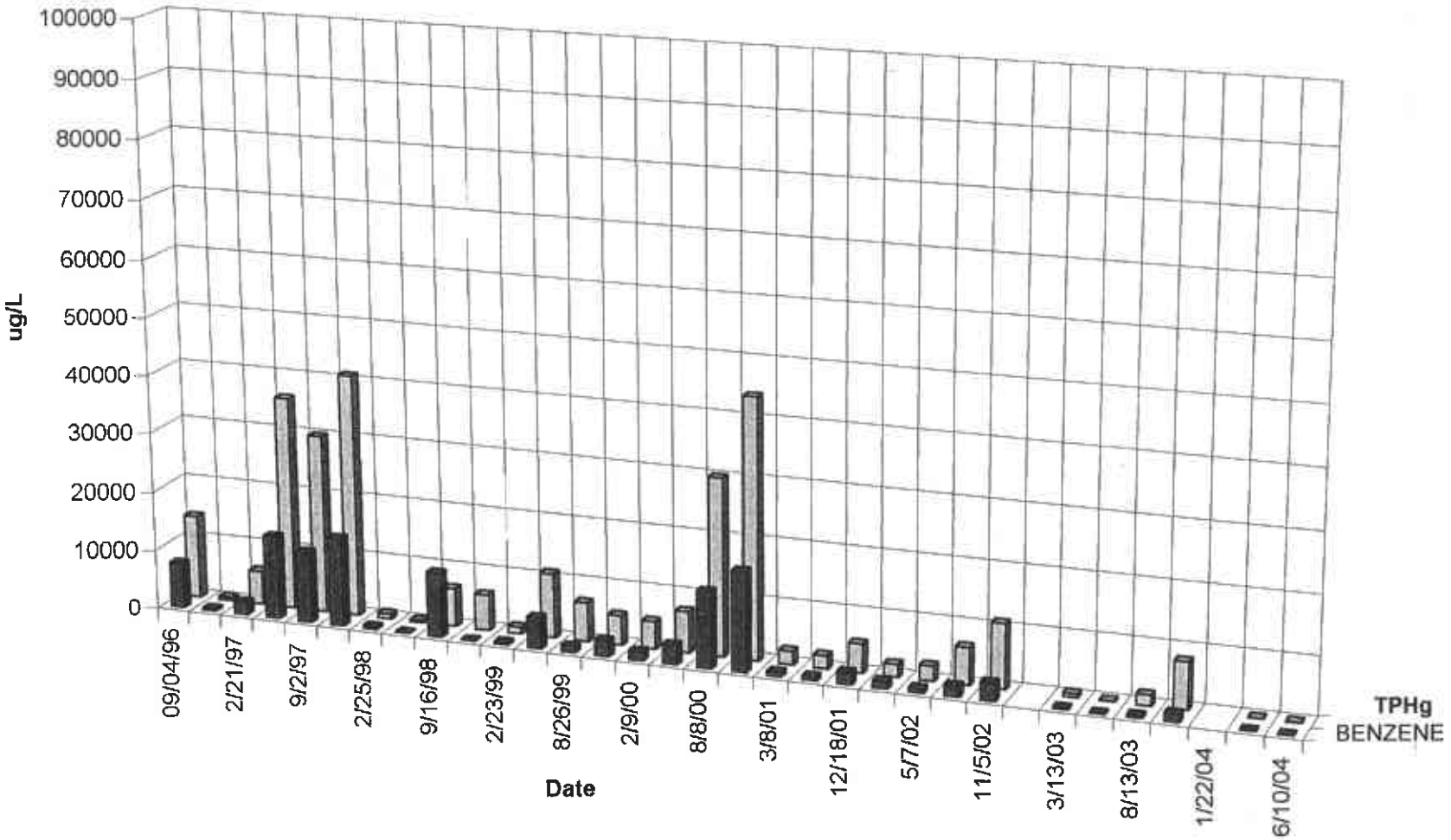
Date
TPHg
BENZENE

R-2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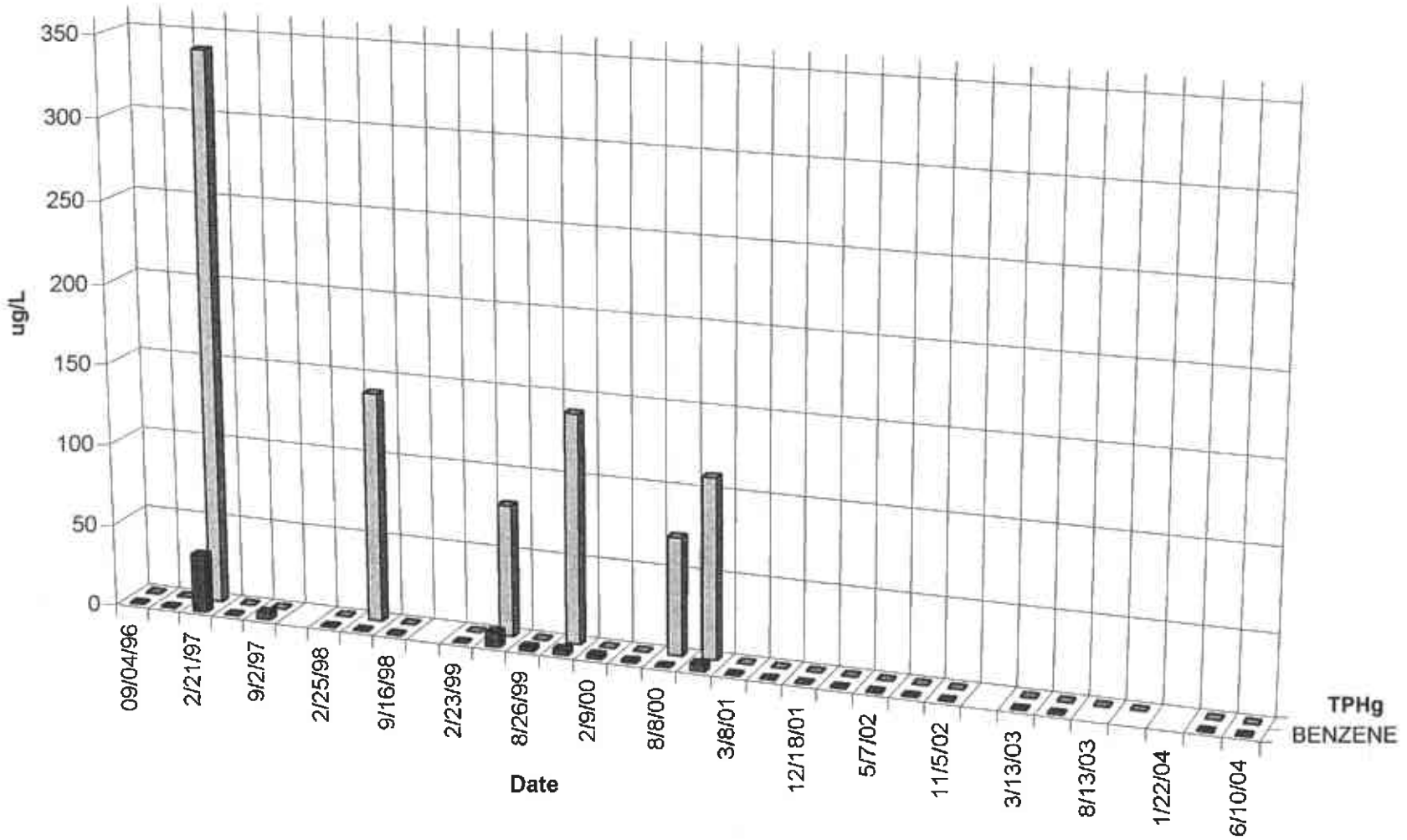
Date
TPHg
BENZENE

R-3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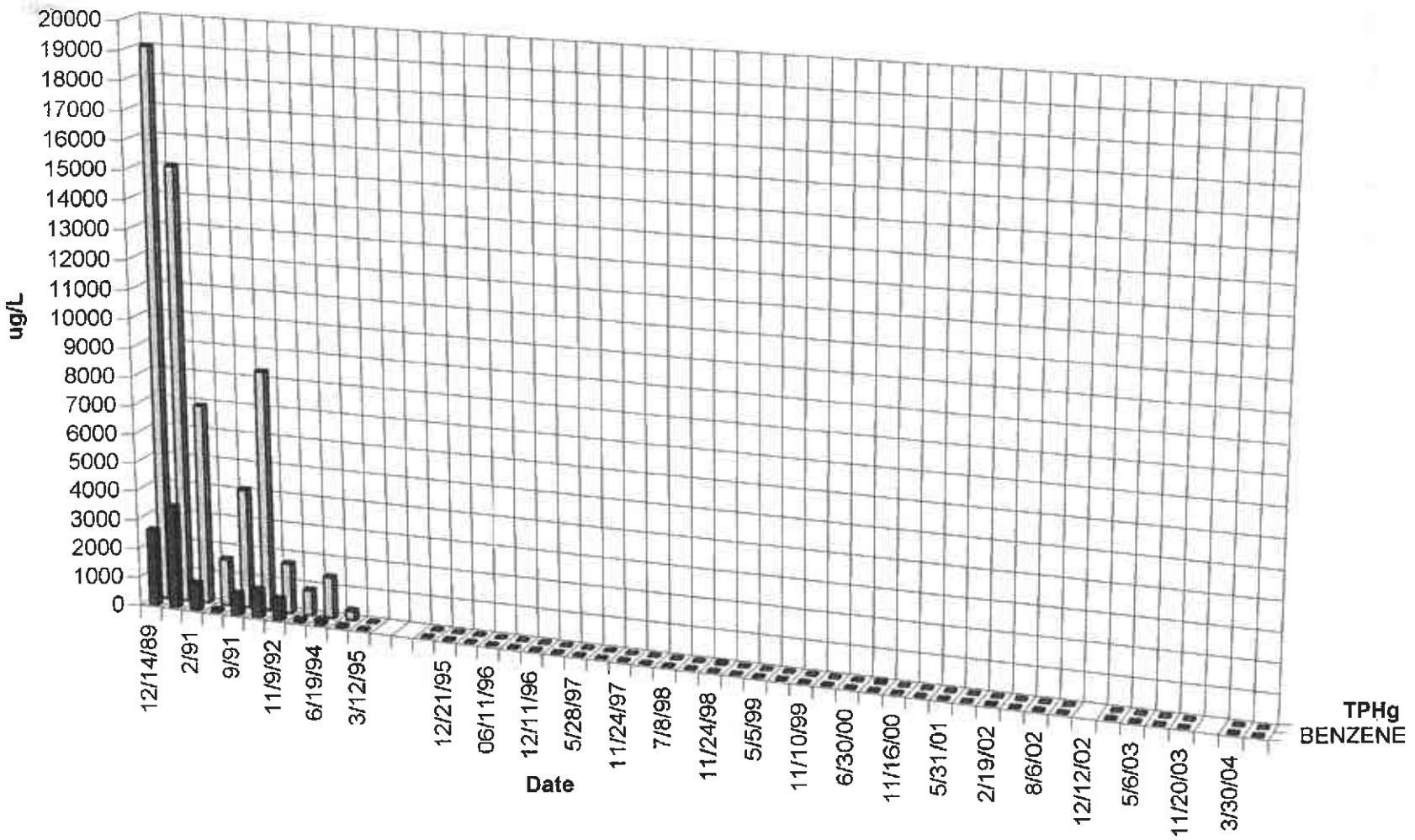
TPHg
BENZENE

RS-1/MW-1 TPHg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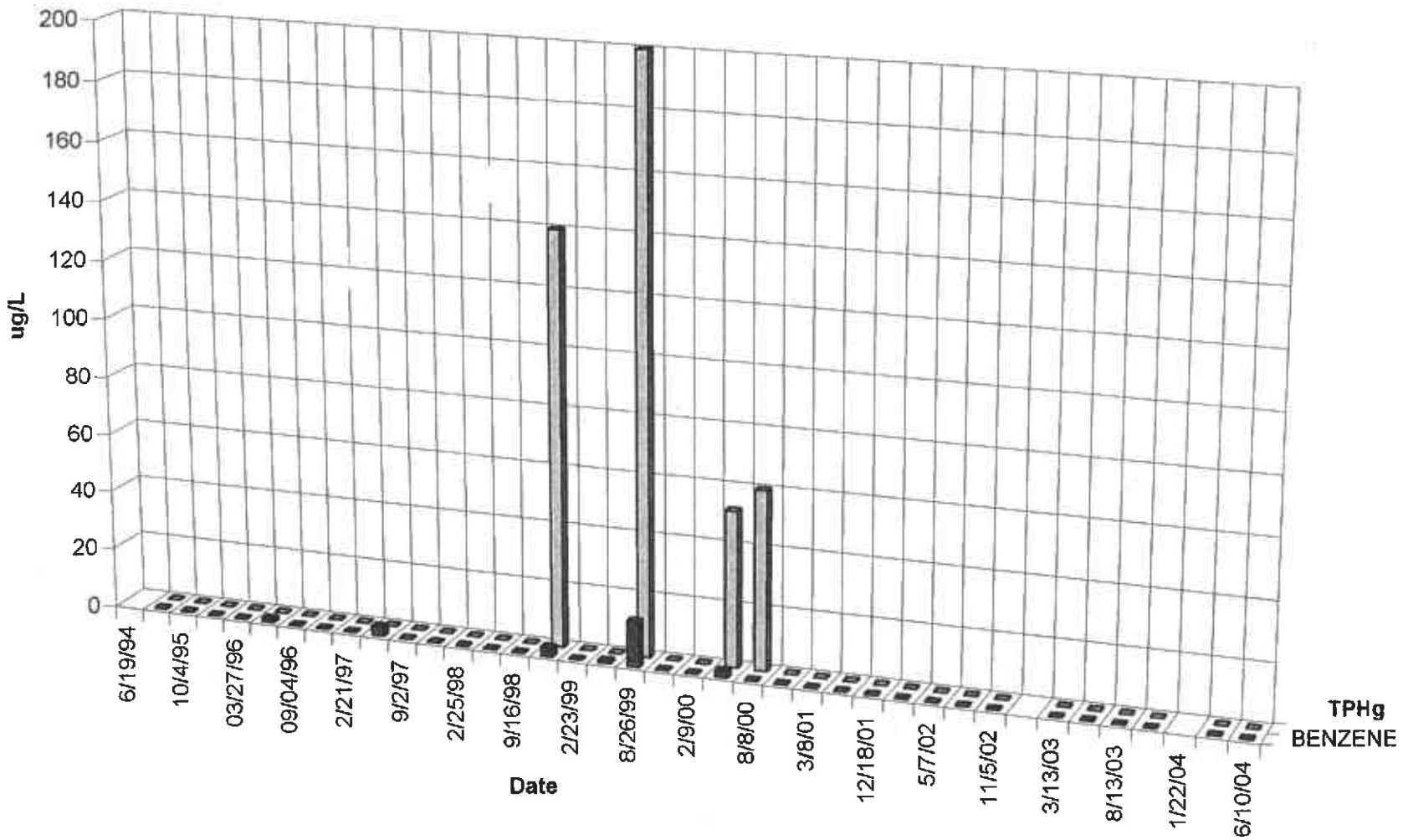
BENZENE

RS-2 TPHg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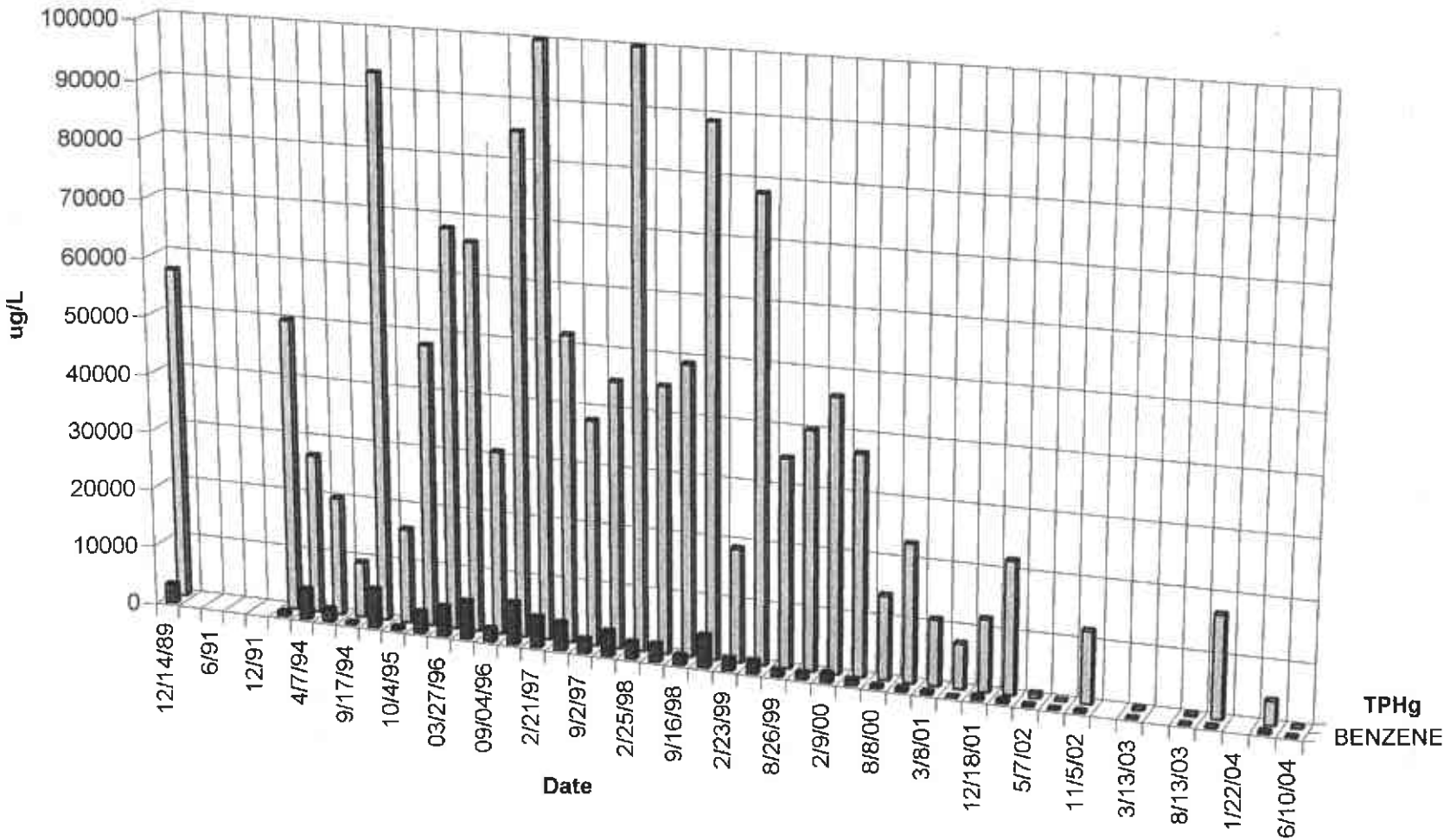
TPHg
BENZENE

RS-5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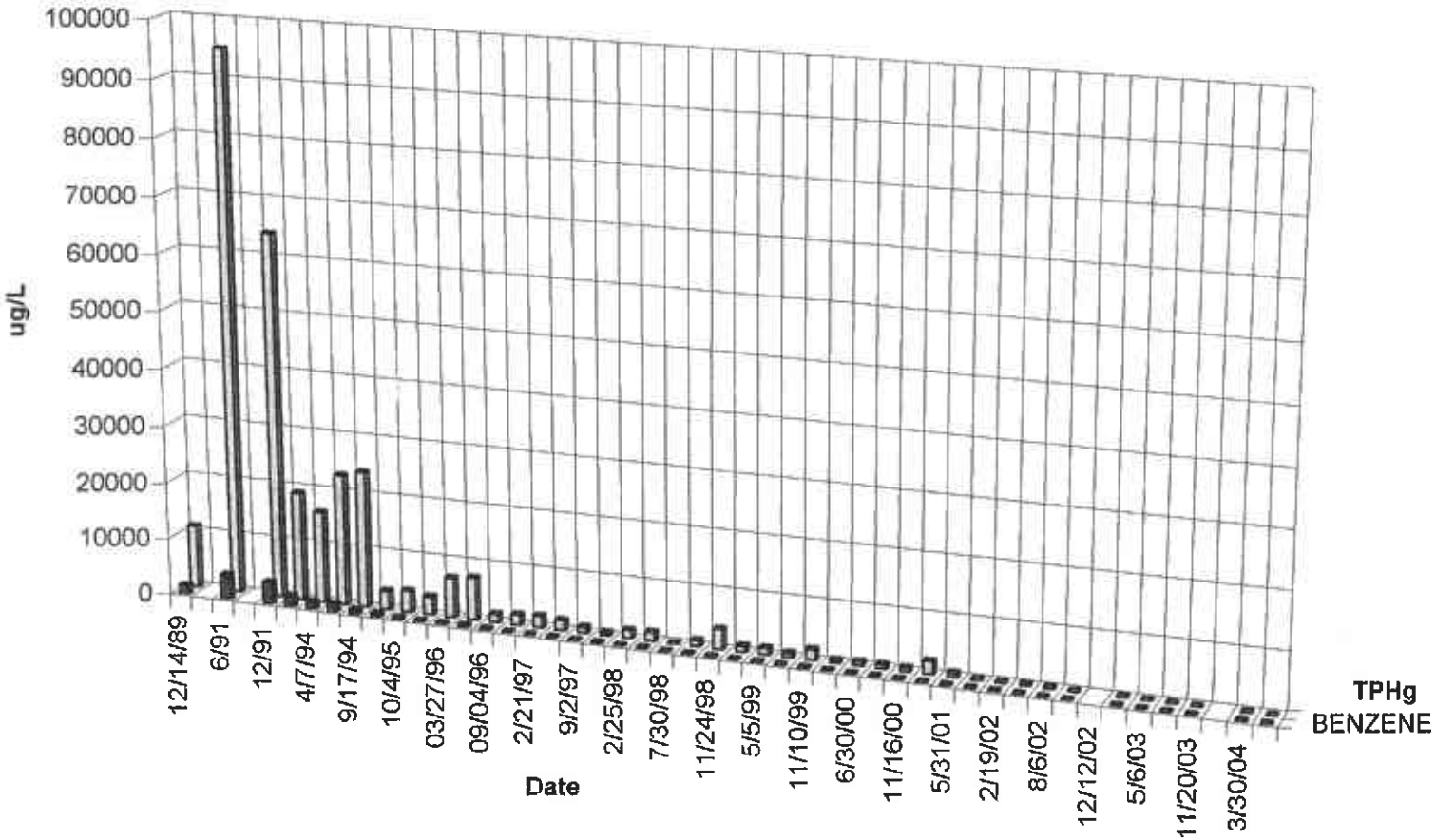
RS-6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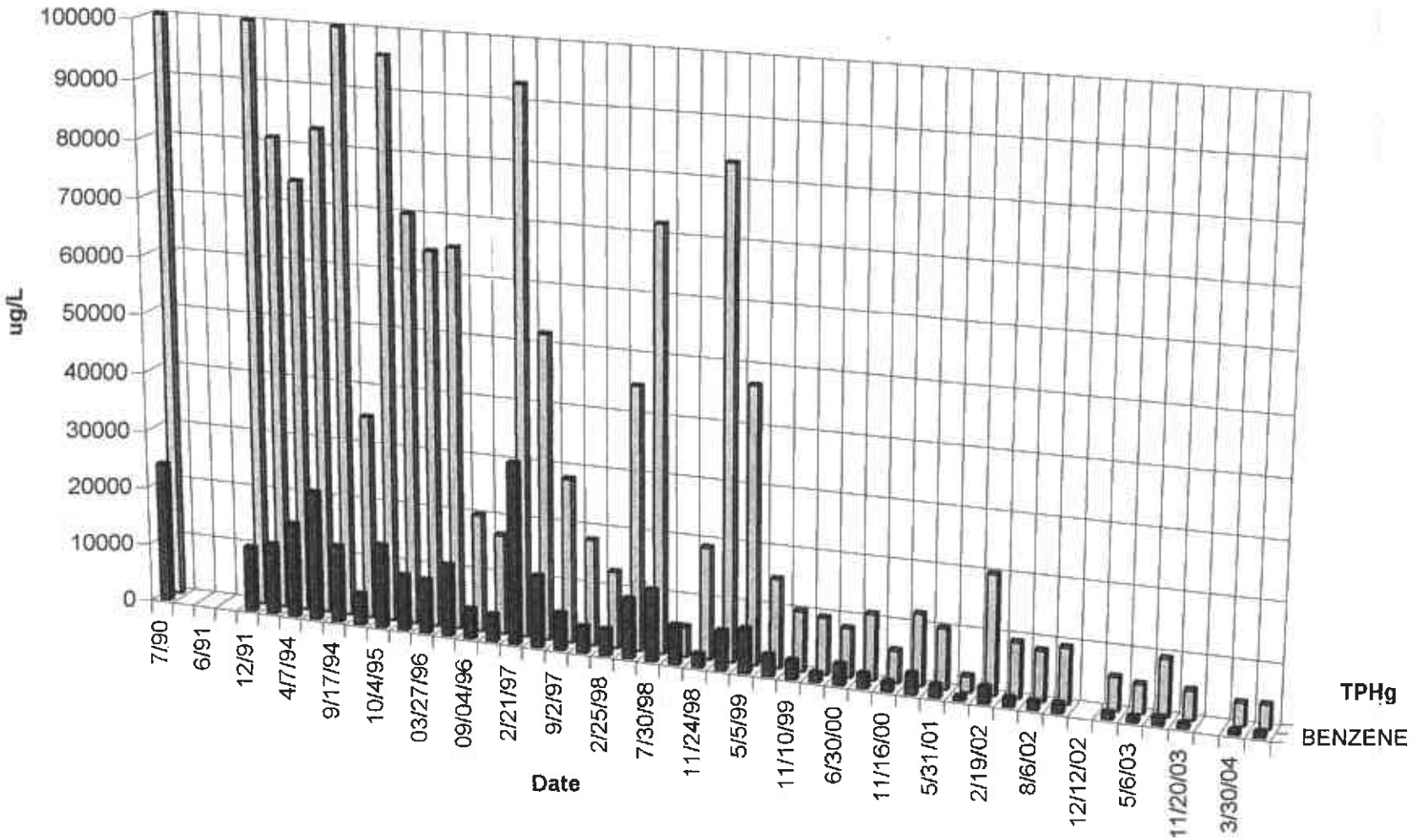
RS-7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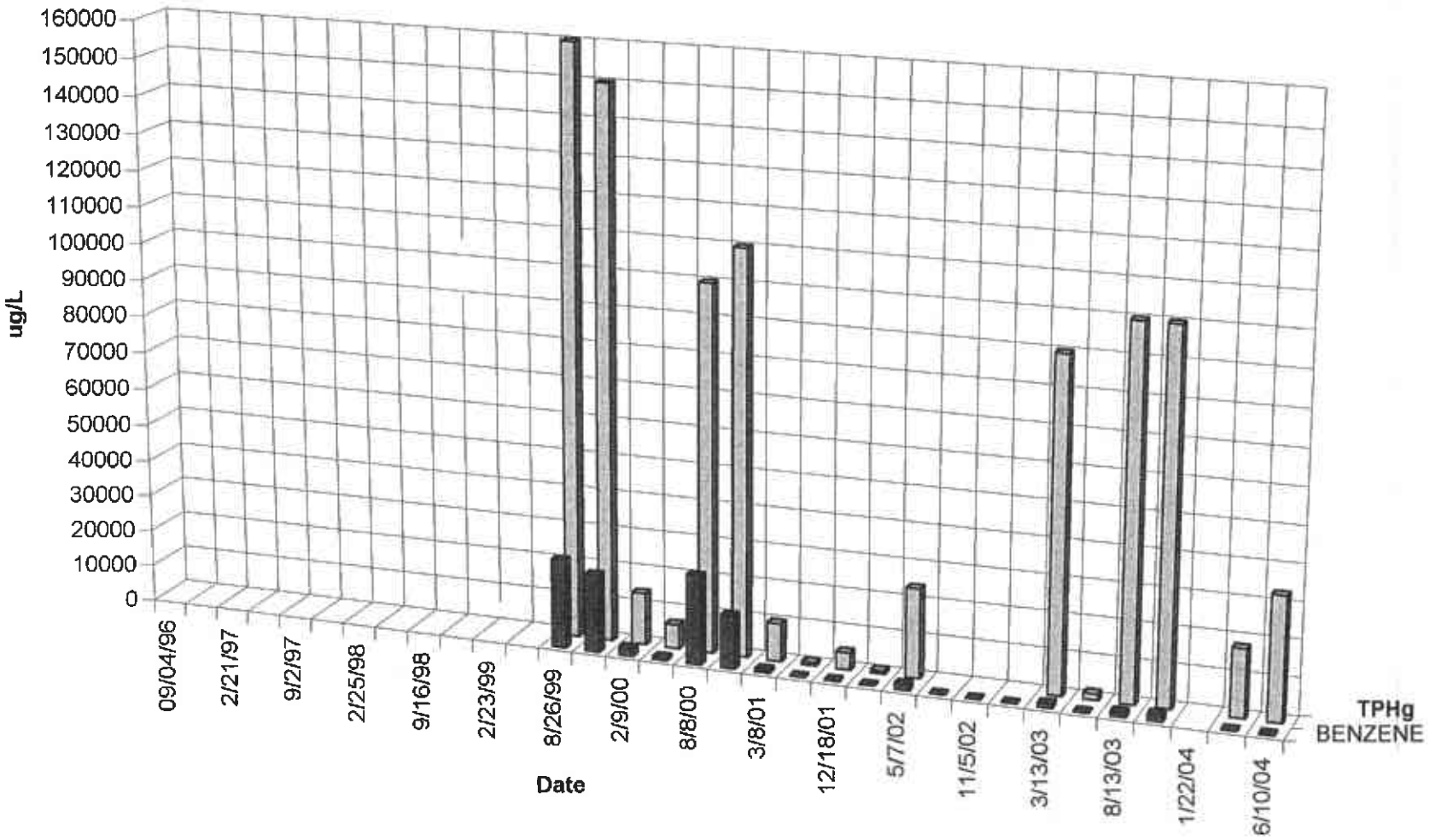
RS-8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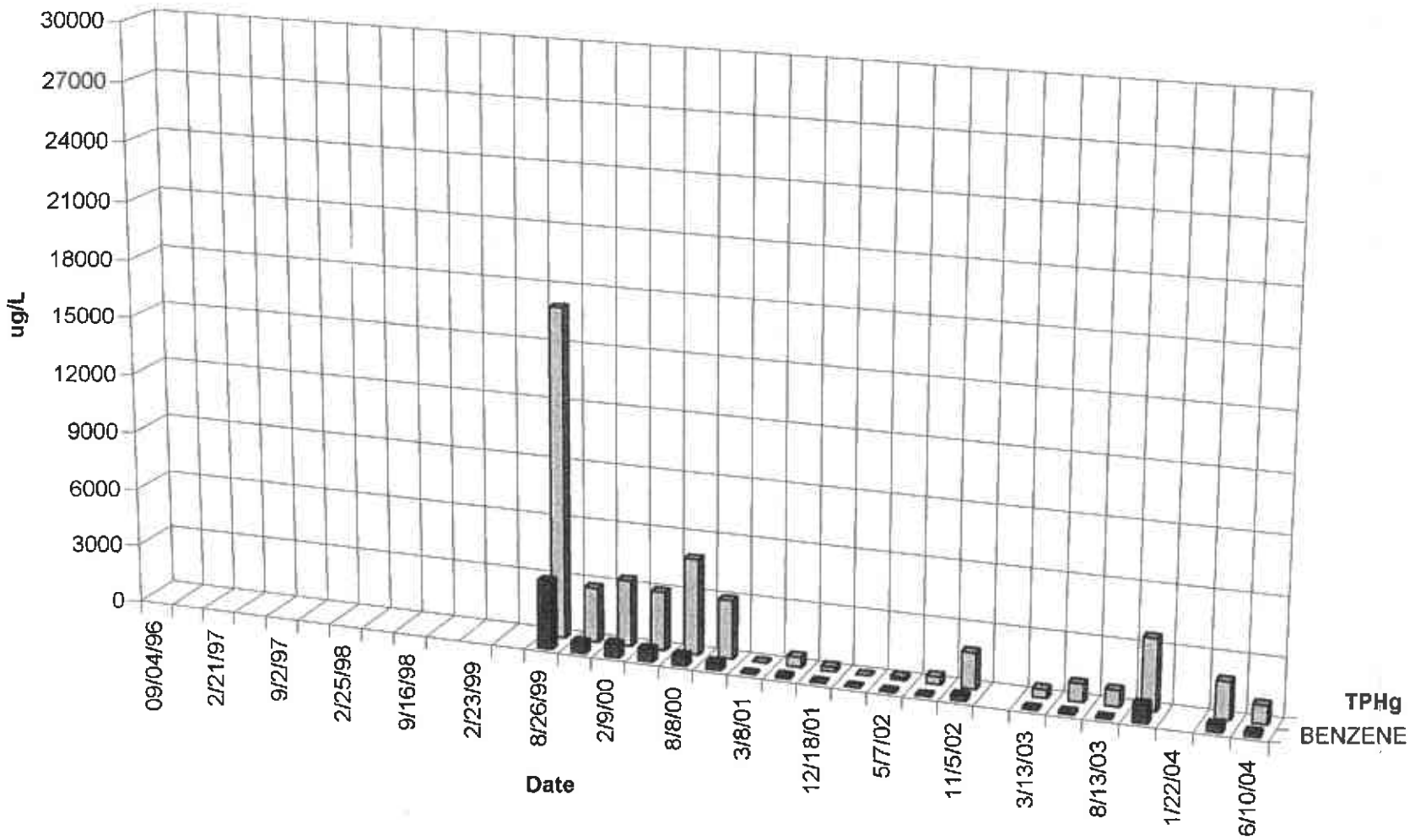
RS-9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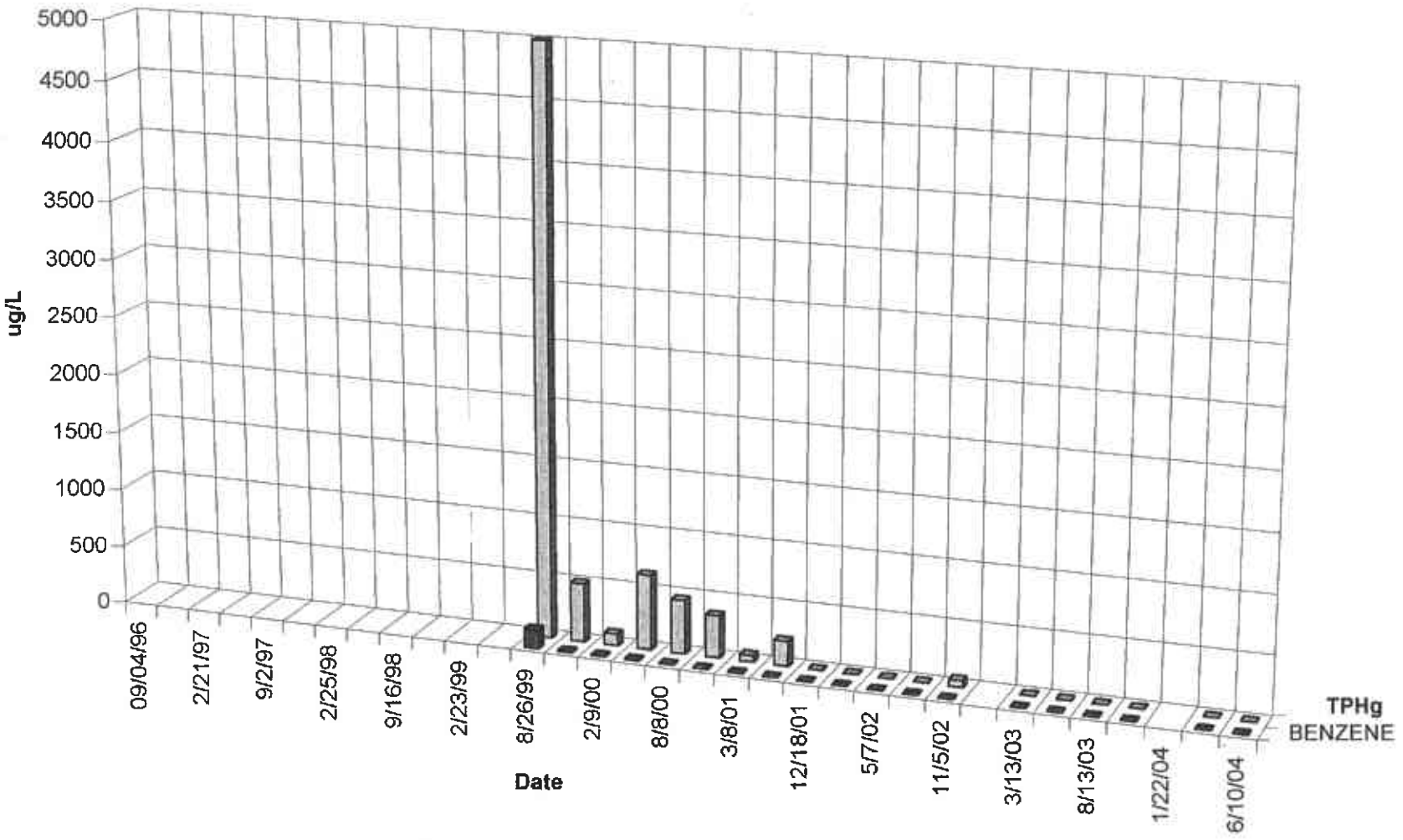
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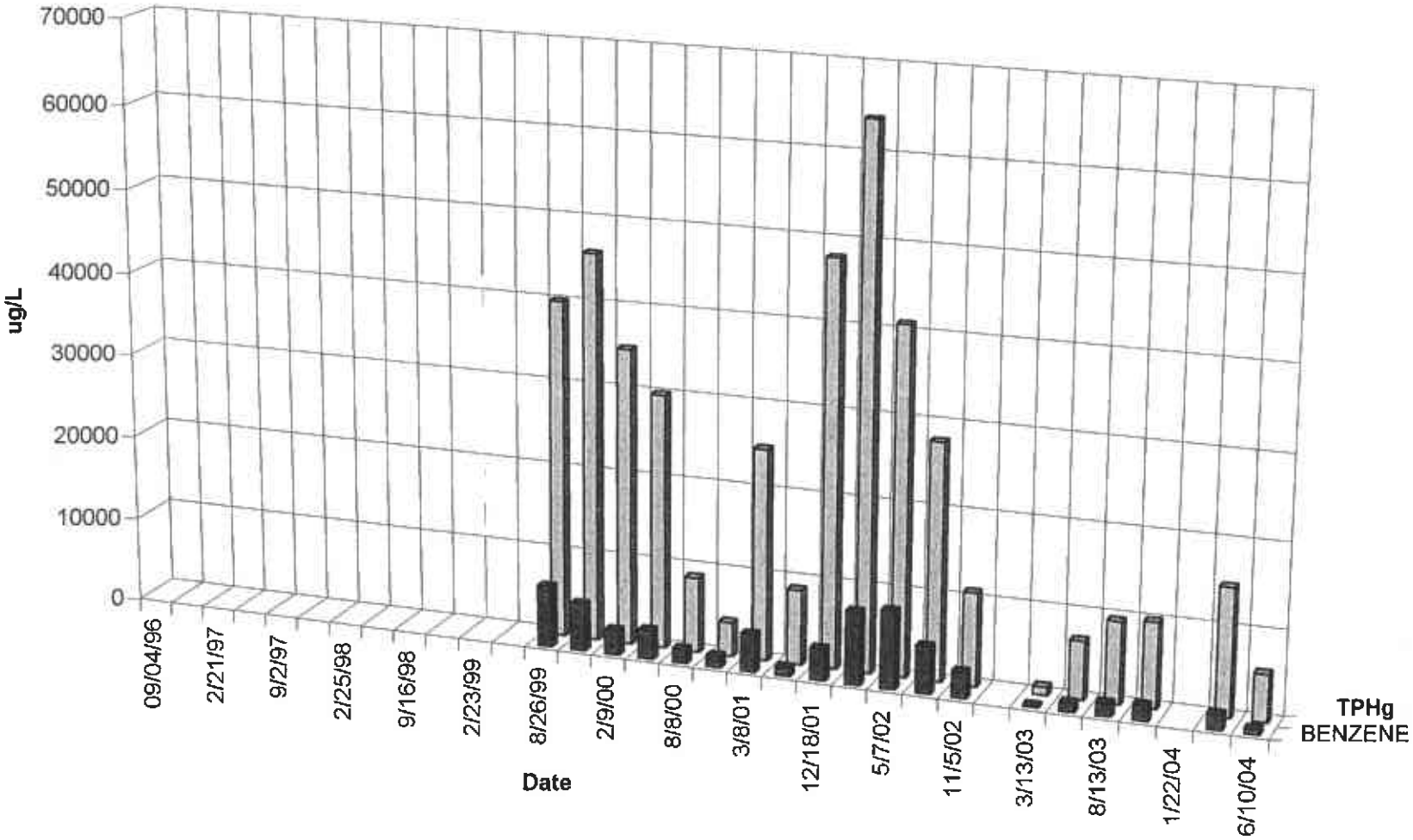
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Date
TPHg
BENZENE

APPENDIX E

WASTEWATER DISCHARGE REPORT

desert petroleum inc.

July 7, 2004

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

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 March 30, and June 30, 2004. Continuous discharge from pumping at RS-5 was stopped on July 19, 2001. This pumping was restarted on March 21, 2002 and is continuing as of this date. A sample of the water discharged to sewer was obtained on May 27, 2004 and analyzed for TPHg, BTEX and MtBE using EPA method 8260B.

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 7/9/04 date

TABLE 6
WASTEWATER DISCHARGE PERMIT # 5043550 1
FORMER DP #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	MTBE
REMOVE PUMP AND DISCONTINUE SEWER DISCHARGE ON July 19, 2001, COMMENCE 1/4LY DISCHARGE												
F1 (PSP No. 1) 1/4LY SAMPLES	12/18/01			238	141669	5.00	<0.5	<0.5	<0.5	<0.5	<0.5	
F1 (PSP No. 1) 1/4LY SAMPLES	2/19/02			246	141915	5.00	<0.5	<0.5	<0.5	<0.5	<0.5	
F1 (PSP No. 1)	3/21/02		1235760	0	141915	2.00	place pump back into RS-5					
F1 (PSP No. 1)	3/27/02		1243817.8	8058	149973	0.93						
F1 (PSP No. 1)	4/11/02		1259678.6	15861	165833	0.73	<0.5	<0.5	<0.5	<0.5	<0.5	
F1 (PSP No. 1)	5/7/02		1283903.1	24225	190058	0.65						
F1 (PSP No. 1)	6/6/02		1308480	24577	214635	0.57						
F1 (PSP No. 1)	7/18/02		1330934.8	22455	237090	0.37						
F1 (PSP No. 1)	8/6/02		1340694.7	9760	246849	0.36	<0.5	<0.5	<0.5	<0.5	<0.5	
F1 (PSP No. 1)	9/12/02		1364301.5	23607	270456	0.44	<0.5	<0.5	<0.5	<0.5	<0.5	
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						

< 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.

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

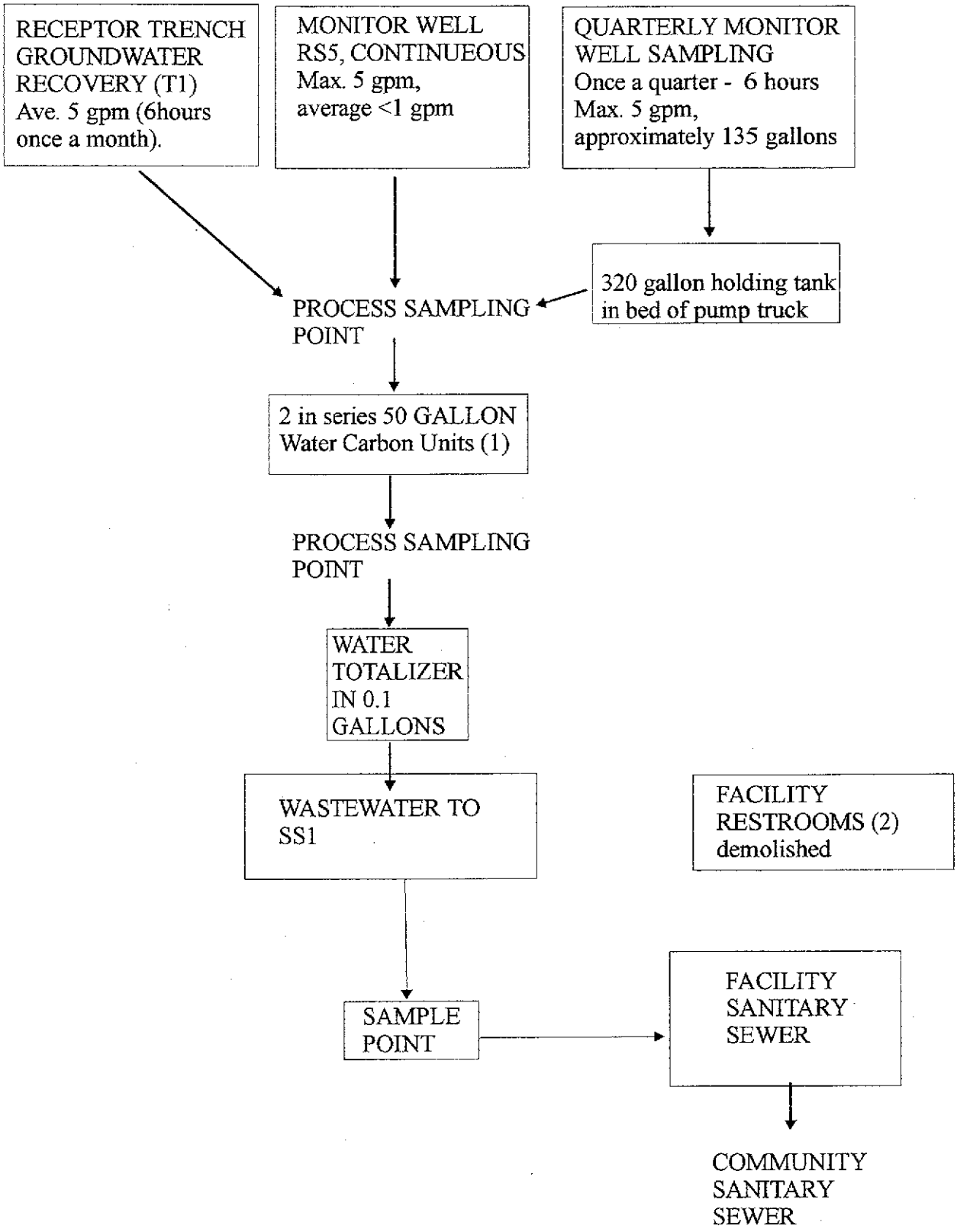
DATE PURGED	METER READING IN GALLONS RS5	METER READING IN GALLONS TRENCH	DEPTH TO TOP OF WATER IN FEET T1	GALLONS PURGED T1 and/or 1/4ly monitoring	ACCUMULATED GALLONS REMOVED FROM TRENCH &WELLS in GALLONS	Accumulated gallons removed from RS5 Gallons	TOTAL GALLONS REMOVED	INFLUENT CONCENTRATIONS EPA 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									
7/3/03	1558031.2	1558031.2		0	74381	389804.9	464185.4							
7/17/03	1567315.6	1568875.6	2.56	1560	75941	399089.3	475029.8							
8/13/03	1585901.5	1587475.1	2.41	1574	77514	416115.2	493629.3	310	1.4	<0.5	1	2.9	<0.5	RS5
9/4/03	1601163.7	1602640.5	2.67	1477	78991	429803.8	508794.7							
9/25/03	1614942.0	1614942.0		0	78991	442105.3	521096.2							
10/3/03	1619477.8	1620763.0	2.32	1285	80276	446641.1	526917.2							
10/8/03	1623572.9	1623572.9		0	80276	449451.0	529727.1							
10/14/03	1626700.0	1626700.0		0	80276	452578.1	532854.2							
10/16/03	1627622.0	1627622.0		0	80276	453500.1	533776.2							
10/24/03	1631506.9	1631506.9		0	80276	457385.0	537661.1							
10/30/03	1634530.0	1634530.0		0	80276	460408.1	540684.2							
11/6/03	1637906.5	1637906.5		0	80276	463784.6	544060.7							
11/13/03	1641361.3	1641361.3		0	80276	467239.4	547515.5							
11/20/03	1644688.6	1645991.4		1303	81579	470566.7	552145.6	17000	150	720	240	1800	0.72	RS5
11/30/03	1649967.5	1649967.5		0	81579	474542.8	556121.7							
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	561842.6							
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							

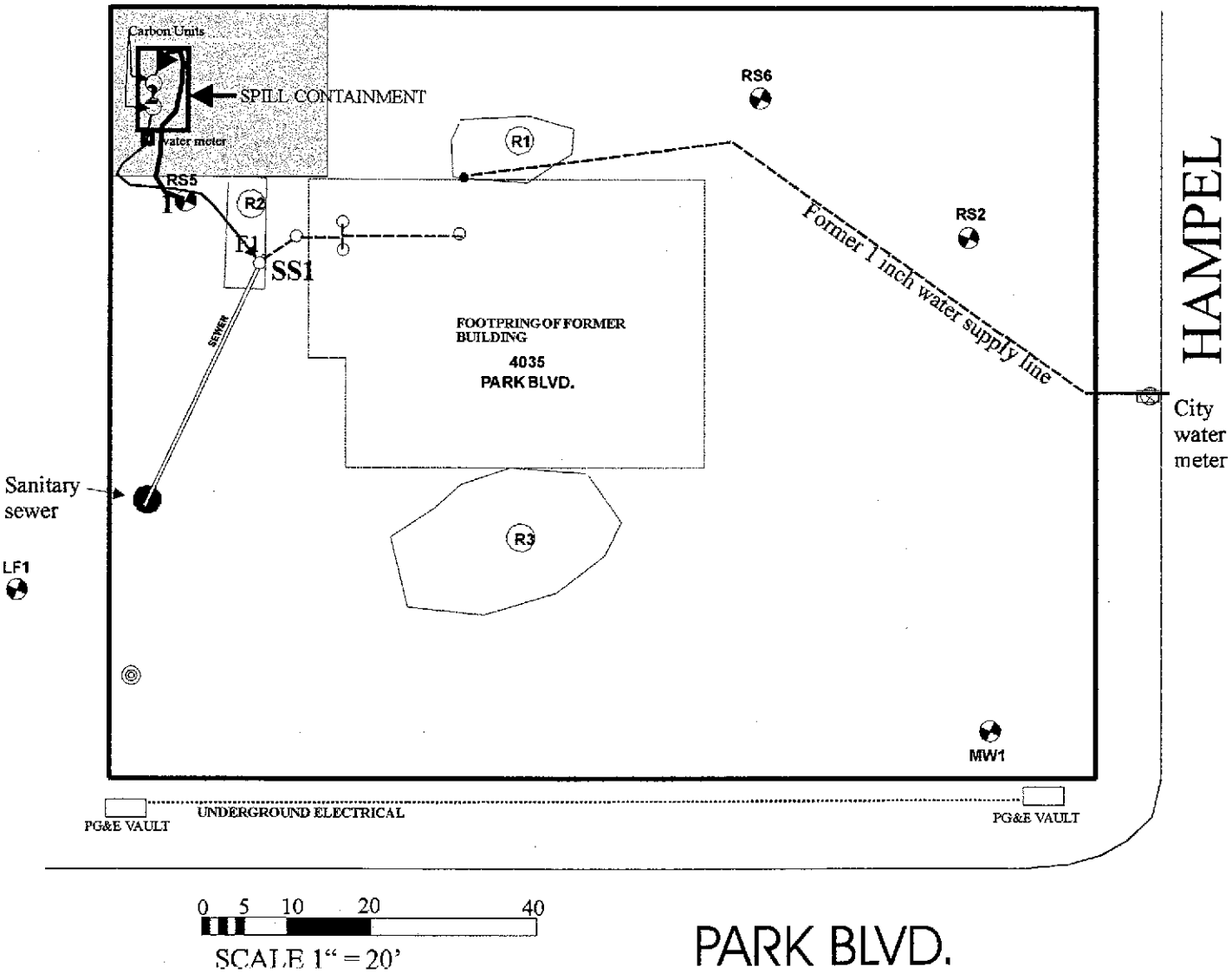
ams per liter (parts per billion)
grams per liter (parts per million)
GEO-ENGINEERS

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



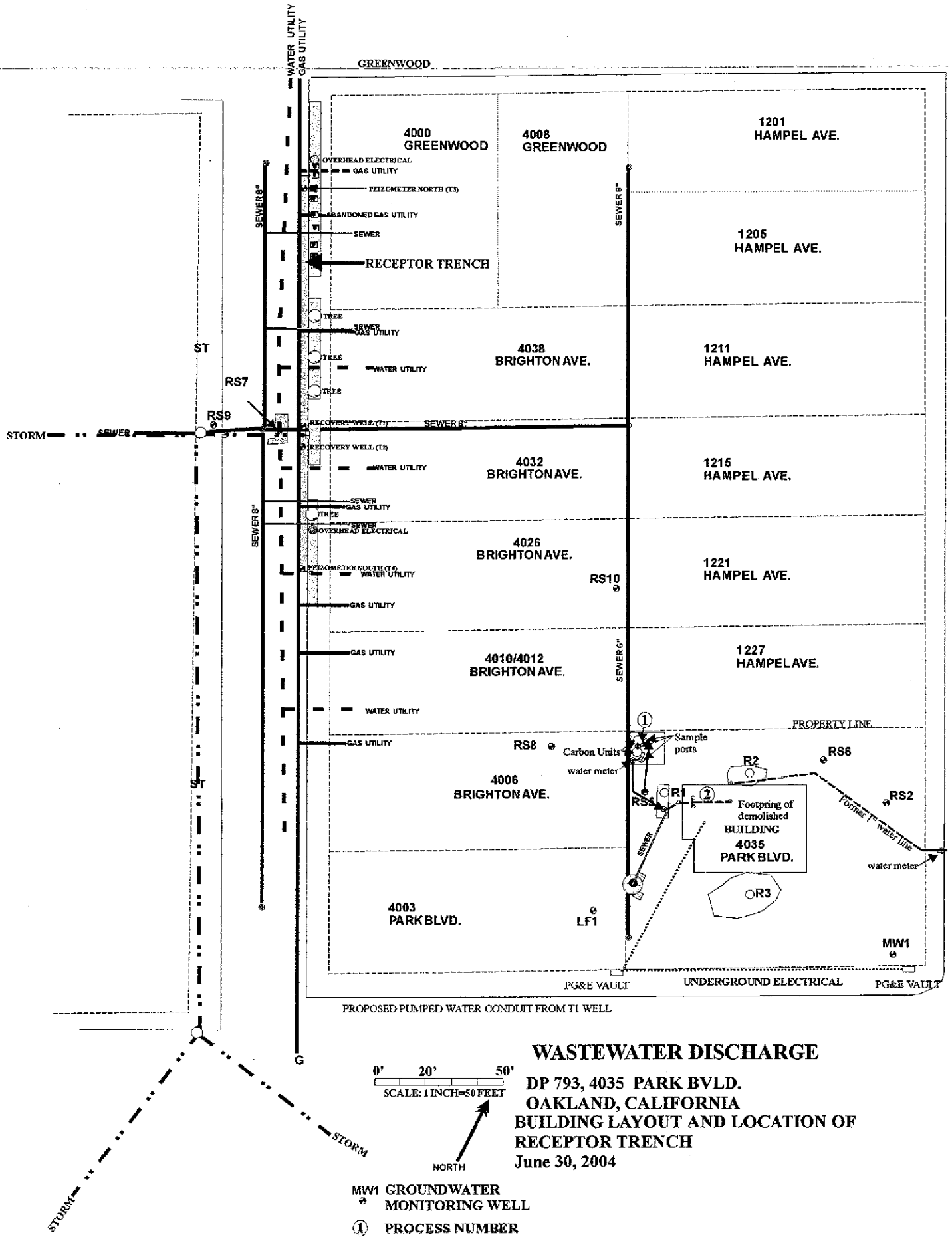


MW1 MONITOR WELL

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

MW1 GROUNDWATER MONITORING WELL

① PROCESS NUMBER

WATER METER

KIFF ANALYTICAL LLC

Report Number : 36784
Date : 1/24/2004

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

Subject : 1 Water Sample
Project Name : DP793 Carbon
Project Number : DP793

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,

Jeff Dahl

KIFF ANALYTICAL LLC

Report Number : 36784
Date : 1/24/2004

Project Name : **DP793 Carbon**
Project Number : **DP793**

Sample : **Carbon 1 Out** Matrix : Water Lab Number : 36784-01
Sample Date :1/22/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**53**	0.50	ug/L	EPA 8260B	1/23/2004
Toluene	**9.2**	0.50	ug/L	EPA 8260B	1/23/2004
Ethylbenzene	**4.7**	0.50	ug/L	EPA 8260B	1/23/2004
Total Xylenes	**14**	0.50	ug/L	EPA 8260B	1/23/2004
Methyl-t-butyl ether (MTBE)	**5.3**	5.0	ug/L	EPA 8260B	1/23/2004
TPH as Gasoline	**310**	50	ug/L	EPA 8260B	1/23/2004
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	1/23/2004
4-Bromofluorobenzene (Surr)	92.6		% Recovery	EPA 8260B	1/23/2004

Approved By: Jeff Dahl

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

Report Number : 36784

Date : 1/24/2004

QC Report : Method Blank Data

Project Name : **DP793 Carbon**

Project Number : **DP793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/23/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/23/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/23/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/23/2004
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	1/23/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/23/2004
Toluene - d8 (Surr)	101		%	EPA 8260B	1/23/2004
4-Bromofluorobenzene (Surr)	92.6		%	EPA 8260B	1/23/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

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

Report Number : 36784

Date : 1/24/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP793 Carbon**

Project Number : **DP793**

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	36775-02	13	40.0	40.0	52.7	52.3	ug/L	EPA 8260B	1/23/04	99.9	99.0	0.880	70-130	25
Toluene	36775-02	<0.50	40.0	40.0	42.9	42.1	ug/L	EPA 8260B	1/23/04	107	105	1.76	70-130	25
Tert-Butanol	36775-02	40	200	200	236	238	ug/L	EPA 8260B	1/23/04	98.0	99.0	0.939	70-130	25
Methyl-t-Butyl Ether	36775-02	250	40.0	40.0	276	276	ug/L	EPA 8260B	1/23/04	70.0	70.6	0.818	70-130	25

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

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

Report Number : 36784

Date : 1/24/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP793 Carbon**

Project Number : **DP793**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	1/23/04	112	70-130
Toluene	40.0	ug/L	EPA 8260B	1/23/04	113	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/23/04	99.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/23/04	95.4	70-130

Approved By: Jeff Dahl

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. 36784 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: Wege 1386 E Beamer St Woodland

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

Project Number: DP 793 P.O. No:

Project Name: DP793 Carbon

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: G Converse

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
Carbon 1 out	1-22-04	1500	2		✓				✓			✓												1 week	-01

Relinquished by	Date	Time	Received by
G Converse	1-23-04	1600	[signature]
[signature]	1/23/04	1650	[signature]
	012304	1650	Received by Laboratory: Osama Abulaban / Kiff Analytical

Remarks:

Bill to: Wege

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.1

KIFF ANALYTICAL LLC

Report Number : 38493
Date : 6/2/2004

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

Subject : 2 Water Samples
Project Name : DP793-Sewer
Project Number : DP793

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 : 38493
Date : 6/2/2004

Subject : 2 Water Samples
Project Name : DP793-Sewer
Project Number : DP793

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample CI-Out for the analyte Benzene were affected by the analyte concentration already present in the un-spiked sample.

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 38493
Date : 6/2/2004

Project Name : **DP793-Sewer**
Project Number : **DP793**

Sample : **CI-Out** Matrix : Water Lab Number : 38493-01
Sample Date :5/27/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**140**	0.50	ug/L	EPA 8260B	5/30/2004
Toluene	**4.2**	0.50	ug/L	EPA 8260B	5/30/2004
Ethylbenzene	**17**	0.50	ug/L	EPA 8260B	5/30/2004
Total Xylenes	**29**	0.50	ug/L	EPA 8260B	5/30/2004
Methyl-t-butyl ether (MTBE)	**5.7**	0.50	ug/L	EPA 8260B	5/30/2004
TPH as Gasoline	**590**	50	ug/L	EPA 8260B	5/30/2004
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	5/30/2004
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	5/30/2004

Sample : **Sewer** Matrix : Water Lab Number : 38493-02
Sample Date :5/27/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/30/2004
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/30/2004
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/30/2004
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/30/2004
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/30/2004
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/30/2004
Toluene - d8 (Surr)	96.9		% Recovery	EPA 8260B	5/30/2004
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/30/2004

Approved By: Joel Kiff

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

Report Number : 38493

Date : 6/2/2004

QC Report : Method Blank Data

Project Name : **DP793-Sewer**

Project Number : **DP793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/30/2004
Toluene - d8 (Surr)	100		%	EPA 8260B	5/30/2004
4-Bromofluorobenzene (Surr)	97.3		%	EPA 8260B	5/30/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/30/2004
Toluene - d8 (Surr)	95.2		%	EPA 8260B	5/30/2004
4-Bromofluorobenzene (Surr)	106		%	EPA 8260B	5/30/2004

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 : 38493

Date : 6/2/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP793-Sewer**

Project Number : **DP793**

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	38493-01	140	38.0	37.7	153	157	ug/L	EPA 8260B	5/30/04	45.3	55.4	20.1	70-130	25
Toluene	38493-01	4.2	38.0	37.7	38.8	38.5	ug/L	EPA 8260B	5/30/04	91.1	91.0	0.154	70-130	25
Tert-Butanol	38493-01	38	190	189	219	223	ug/L	EPA 8260B	5/30/04	95.3	97.7	2.50	70-130	25
Methyl-t-Butyl Ether	38493-01	5.7	38.0	37.7	39.8	39.8	ug/L	EPA 8260B	5/30/04	89.7	90.2	0.577	70-130	25
Benzene	38513-01	<0.50	40.0	40.0	39.5	38.6	ug/L	EPA 8260B	5/30/04	98.8	96.4	2.44	70-130	25
Toluene	38513-01	<0.50	40.0	40.0	37.1	37.2	ug/L	EPA 8260B	5/30/04	92.8	93.0	0.212	70-130	25
Tert-Butanol	38513-01	<5.0	200	200	201	202	ug/L	EPA 8260B	5/30/04	100	101	0.716	70-130	25
Methyl-t-Butyl Ether	38513-01	<0.50	40.0	40.0	43.0	42.5	ug/L	EPA 8260B	5/30/04	107	106	1.16	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 38493

Date : 6/2/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP793-Sewer**

Project Number : **DP793**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	5/29/04	99.3	70-130
Toluene	40.0	ug/L	EPA 8260B	5/29/04	97.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/29/04	96.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/29/04	92.3	70-130
Benzene	40.0	ug/L	EPA 8260B	5/30/04	100	70-130
Toluene	40.0	ug/L	EPA 8260B	5/30/04	97.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/30/04	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/30/04	114	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. 38493 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: Western Geo-Eng 1386 E Beamer St Woodland

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

Project Number: DP797 P.O. No:

Project Name: DP797-Sewer

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	HNO3	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
C1-out	5-27-04	1/20	3				✓		✓		✓						✓													1wk	-1
Sewer	5-27-04	1310	3				✓		✓		✓						✓													1wk	-2

Relinquished by:	Date	Time	Received by:
G Converse	5-27-04	1744	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	052704	1744	Tu - Kiff Analytical

Remarks:

Bill to: WEGE

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

EAST BAY MUNICIPAL UTILITY DISTRICT

COMPLIANCE EVENT REMINDER NOTICE

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

June 1, 2004

Mr. George Converse
Desert Petroleum, Inc.
1386 E. Beamer Street
Woodland, CA 95776

Dear Mr. Converse:

Re: Wastewater Discharge Permit No. 50435501

Desert Petroleum, Inc. Desert Petroleum, Inc. is required to submit periodic compliance reports. This is a reminder that a Self-Monitoring Report for the period April 1, 2004 - June 30, 2004 is due by July 31, 2004.

The Self-Monitoring Report must contain the proper certification statement and shall be signed by an authorized person in accordance with Section B of the permit Standard Terms And Conditions. This report must be completed and mailed to the Environmental Services Division by the due date. A violation follow up fee may be assessed for late, incomplete or failure to submit this report.

Sincerely,

Molly Ong

MOLLY ONG
Wastewater Control Representative

MKO:mko

P.O. BOX 24055 . OAKLAND . CA 94623-1055 . (510) 287-1405

EAST BAY
MUNICIPAL UTILITY DISTRICT

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

COMPLIANCE EVENT REMINDER NOTICE

December 1, 2003

Mr. George Converse
Desert Petroleum, Inc.
1386 E. Beamer Street
Woodland, CA 95776

Dear Mr. Converse:

Re: Wastewater Discharge Permit No. 50435501

Desert Petroleum, Inc. is required to submit periodic compliance reports. This is a reminder that a Self-Monitoring Report for the period October 1, 2003 - December 31, 2003 is due by January 31, 2004.

The Self-Monitoring Report for the period July 1, 2003 - September 30, 2003 must contain the proper certification statement and shall be signed by an authorized person in accordance with Section B of the permit Standard Terms And Conditions. This report must be completed and mailed to the Environmental Services Division by the due date. A violation follow up fee may be assessed for late, incomplete or failure to submit this report.

If you have any questions, please contact me at (510)287-1618.

Sincerely,

MOLLY ONG
Wastewater Control Representative

MKO:mko

EAST BAY
MUNICIPAL UTILITY DISTRICT

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

NOTIFICATION OF EBMUD TEST RESULTS

January 23, 2004

Mr. George Converse
Desert Petroleum, Inc.
1386 E. Beamer Street
Woodland, CA 95776

Dear Mr. Converse:

Re: Wastewater Discharge Permit No. 50435501
Discharge Location - 4035 Park Boulevard, Oakland

East Bay Municipal Utility District (EBMUD) inspected the subject facility and sampled the wastewater discharge on December 18, 2003. The measured parameters are in compliance with your Wastewater Discharge Permit. The test results of the samples and corresponding discharge Permit limitations are shown in the table below. A copy of the EBMUD Laboratory Analytical Report is attached.

Date	Location	Sample No.	Type	Parameter	Result	Daily Limit
12/18/03	PSP 1	L109353-1	grab	Benzene	< 0.00005	.005
12/18/03	PSP 1	L109353-1	grab	Ethyl Benzene	< 0.00008	.005
12/18/03	PSP 1	L109353-1	grab	Toluene	< 0.00007	.005
12/18/03	PSP 1	L109353-1	grab	Total Xylenes	< 0.00033	.005

Note: All units are mg/L .

Please call me at (510) 287-1618 if you have any questions.

Sincerely,

Molly Ong

MOLLY ONG
Wastewater Control Representative

MKO:mko

EBMUD Laboratory

Analytical Report

VPIMS

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462

California Environmental Laboratory Accreditation Program Certificate Number 1060

Laboratory Report - L109353

LSR # - B941-0001-1 Project Title: Desert Petoleum - DP793 GW 1 gw-lo

Report generated on: Jan 07, 2004 01:55 pm

2 - Samples received by the lab on: Dec 18 2003, 10:45 am
0 - Lost Analyses
0 - Hold Time Exceedences
Turn-around-time met

KENNETH GERSTMAN

WILLIAM M. ELLGAS 1/7/04

Please route this report to:

Client PM: MOLLY ONG

Samples included in this report:

Sample	Type	Collected	Site	Locator	ClientID
L109353-1	GRAB	18-Dec-2003 10:15	IW S	DP793 GW 1	-
L109353-2	QCFB	18-Dec-2003 10:15	IW S	DP793 GW 1	-

Legend to the laboratory qualifiers used in this report:
U - Analyte not detected

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B941-0001-1 Desert Petoleum - DP793 GW 1 gw-lo
Site: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Side Sewer 1
Groundwater discharge

Lab ID: L109353-1
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Dec 18 2003, 10:15am Sample collector: A COMEAUX
Date Received: Dec 18 2003, 10:45am Sample receiver: CSOOHOO
Sample Comments: SAMPLES CLEAR AND ODORLESS

Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix Tag RL/ML
Method: EPA 624 - Volatile Organics: GC/MS						
TARGET ANALYTES						WasteH2O
DICHLORODIFLUOROMETHANE	U	0.090	ug/L	1.0	0.090	
CHLOROMETHANE	U	0.10	ug/L	1.0	0.10	
VINYL CHLORIDE	U	0.070	ug/L	1.0	0.070	
1,3-BUTADIENE	U	0.20	ug/L	1.0	0.20	
BROMOMETHANE	U	0.21	ug/L	1.0	0.21	
CHLOROETHANE	U	0.19	ug/L	1.0	0.19	
FLUOROTRICHLOROMETHANE	U	0.15	ug/L	1.0	0.15	
ETHYL ETHER	U	0.50	ug/L	1.0	0.50	
ACROLEIN	U	20	ug/L	1.0	20	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	U	0.10	ug/L	1.0	0.10	
1,1-DICHLOROETHENE	U	0.050	ug/L	1.0	0.050	
ACETONE	U	6.0	ug/L	1.0	6.0	
IODOMETHANE	U	0.50	ug/L	1.0	0.50	
CARBON DISULFIDE	U	0.10	ug/L	1.0	0.10	
ALLYL CHLORIDE	U	0.50	ug/L	1.0	0.50	
METHYLENE CHLORIDE	U	0.070	ug/L	1.0	0.070	
TERT-BUTYL ALCOHOL	U	25	ug/L	1.0	25	
ACRYLONITRILE	U	1.0	ug/L	1.0	1.0	
METHYL-T-BUTYL ETHER	U	0.50	ug/L	1.0	0.50	
TRANS-1,2-DICHLOROETHENE	U	0.14	ug/L	1.0	0.14	
DIISOPROPYL ETHER	U	0.50	ug/L	1.0	0.50	
VINYL ACETATE	U	0.20	ug/L	1.0	0.20	
1,1-DICHLOROETHANE	U	0.070	ug/L	1.0	0.070	
ETHYL-T-BUTYL ETHER	U	0.50	ug/L	1.0	0.50	
2-BUTANONE	U	3.0	ug/L	1.0	3.0	
ETHYL ACETATE	U	0.10	ug/L	1.0	0.10	
SEC-DICHLOROPROPANE	U	0.17	ug/L	1.0	0.17	
CIS-1,2-DICHLOROETHENE	U	0.050	ug/L	1.0	0.050	
METHYLACRYLATE	U	0.50	ug/L	1.0	0.50	
METHYLACRYLONITRILE	U	0.50	ug/L	1.0	0.50	
BROMOCHLOROMETHANE	U	0.14	ug/L	1.0	0.14	
TETRAHYDROFURAN	U	10	ug/L	1.0	10	
CHLOROFORM	U	0.070	ug/L	1.0	0.070	
1,1,1-TRICHLOROETHANE	U	0.080	ug/L	1.0	0.080	
1-CHLOROBUTANE	U	0.50	ug/L	1.0	0.50	
1,1-DICHLOROPROPENE	U	0.070	ug/L	1.0	0.070	
CARBON TETRACHLORIDE	U	0.14	ug/L	1.0	0.14	
BENZENE	U	0.050	ug/L	1.0	0.050	
1,2-DICHLOROETHANE	U	0.060	ug/L	1.0	0.060	
TERT-AMYL METHYL ETHER	U	0.50	ug/L	1.0	0.50	
TRICHLOROETHENE	U	0.050	ug/L	1.0	0.050	
1,2-DICHLOROPROPANE	U	0.12	ug/L	1.0	0.12	
METHYLMETHACRYLATE	U	0.50	ug/L	1.0	0.50	
DIBROMOMETHANE	U	0.090	ug/L	1.0	0.090	
BROMODICHLOROMETHANE	U	0.040	ug/L	1.0	0.040	
2-CHLOROETHYLVINYL ETHER	U	0.10	ug/L	1.0	0.10	
2-NITROPROPANE	U	0.50	ug/L	1.0	0.50	
CHLOROACETONITRILE	U	10	ug/L	1.0	10	
CIS-1,3-DICHLOROPROPENE	U	0.070	ug/L	1.0	0.070	
4-METHYL-2-PENTANONE	U	0.40	ug/L	1.0	0.40	
1,1-DICHLORO-2-PROPANONE	U	1.0	ug/L	1.0	1.0	

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

[redacted]: B941-0001-1 Desert Petoleum - DP793 GW 1 gw-lo
[redacted]: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Side Sewer 1 Groundwater discharge
Lab ID: L109353-1
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Dec 18 2003, 10:15am Sample collector: A COMEAUX
Date Received: Dec 18 2003, 10:45am Sample receiver: CSOOHOO
Sample Comments: SAMPLES CLEAR AND ODORLESS

Method Reference						Matrix Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML
TOLUENE	U	0.070	ug/L	1.0	0.070	
TRANS-1,3-DICHLOROPROPENE	U	0.020	ug/L	1.0	0.020	
ETHYLMETHACRYLATE	U	0.50	ug/L	1.0	0.50	
1,1,2-TRICHLOROETHANE	U	0.030	ug/L	1.0	0.030	
TETRACHLOROETHENE	U	0.11	ug/L	1.0	0.11	
1,3-DICHLOROPROPANE	U	0.070	ug/L	1.0	0.070	
2-HEXANONE	U	0.10	ug/L	1.0	0.10	
DIBROMOCHLOROMETHANE	U	0.060	ug/L	1.0	0.060	
ETHYLENE DIBROMIDE	U	0.10	ug/L	1.0	0.10	
CHLOROBENZENE	U	0.050	ug/L	1.0	0.050	
1,1,1,2-TETRACHLOROETHANE	U	0.030	ug/L	1.0	0.030	
ETHYL BENZENE	U	0.080	ug/L	1.0	0.080	
M+P XYLENES	U	0.22	ug/L	1.0	0.22	
O-XYLENE	U	0.11	ug/L	1.0	0.11	
STYRENE	U	0.080	ug/L	1.0	0.080	
BROMOFORM	U	0.10	ug/L	1.0	0.10	
ISOPROPYLBENZENE	U	0.11	ug/L	1.0	0.11	
BROMOBENZENE	U	0.080	ug/L	1.0	0.080	
TRANS-1,4-DICHLORO-2-BUTENE	U	0.50	ug/L	1.0	0.50	
1,1,2,2-TETRACHLOROETHANE	U	0.11	ug/L	1.0	0.11	
[redacted]-TRICHLOROPROPANE	U	0.080	ug/L	1.0	0.080	
[redacted]OPYLBENZENE	U	0.090	ug/L	1.0	0.090	
O-CHLOROTOLUENE	U	0.12	ug/L	1.0	0.12	
P-CHLOROTOLUENE	U	0.080	ug/L	1.0	0.080	
1,3,5-TRIMETHYLBENZENE	U	0.18	ug/L	1.0	0.18	
TERT-BUTYLBENZENE	U	0.080	ug/L	1.0	0.080	
PENTACHLOROETHANE	U	0.20	ug/L	1.0	0.20	
1,2,4-TRIMETHYLBENZENE	U	0.35	ug/L	1.0	0.35	
SEC-BUTYLBENZENE	U	0.10	ug/L	1.0	0.10	
1,3-DICHLOROBENZENE	U	0.060	ug/L	1.0	0.060	
P-ISOPROPYLTOLUENE	U	0.080	ug/L	1.0	0.080	
1,4-DICHLOROBENZENE	U	0.040	ug/L	1.0	0.040	
1,2-DICHLOROBENZENE	U	0.050	ug/L	1.0	0.050	
N-BUTYLBENZENE	U	0.10	ug/L	1.0	0.10	
BIS(2-CHLOROISOPROPYL)ETHER	U	0.60	ug/L	1.0	0.60	
HEXACHLOROETHANE	U	1.0	ug/L	1.0	1.0	
DIBROMOCHLOROPROPANE	U	0.47	ug/L	1.0	0.47	
NITROBENZENE	U	20	ug/L	1.0	20	
1,2,4-TRICHLOROBENZENE	U	0.11	ug/L	1.0	0.11	
HEXACHLOROBUTADIENE	U	0.12	ug/L	1.0	0.12	
NAPHTHALENE	U	0.10	ug/L	1.0	0.10	
1,2,3-TRICHLOROBENZENE	U	0.11	ug/L	1.0	0.11	
INTERNAL STANDARD						
FLUOROBENZENE		69.8	% recovery	1.00		
D5-CHLOROBENZENE		66.6	% recovery	1.00		
D4-1,4-DICHLOROBENZENE		55.0	% recovery	1.00		
SURROGATE PARAMETERS						
DIBROMOFLUOROMETHANE		102	% recovery	1.00		
D4-DICHLOROETHANE		105	% recovery	1.00		
D8-TOLUENE		98.8	% recovery	1.00		
4-BROMOFLUOROBENZENE		89.2	% recovery	1.00		

Run ID: R120215 / Work Group No.: WG108244
Prep Date1: 24-DEC-03 Analyzed 24-DEC-03

[redacted]

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B941-0001-1 Desert Petoleum - DP793 GW 1 gw-lo
Site: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Side Sewer 1
Groundwater discharge

Lab ID: L109353-2
Sample Type: QCFB (Field Blank Grab)
Date Collected: Dec 18 2003, 10:15am Sample collector: A COMEAUX
Date Received: Dec 18 2003, 10:45am Sample receiver: CSOOHOO
Sample Comments: QCFB FOR L109353-1 PREP'D ON 12/16/03 BY TCB ACID LOT# 111703/L108776-1
BOTTLE#59

Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix Tag RL/ML
Method: EPA 624 - Volatile Organics, GC/MS						WasteH2O
TARGET ANALYTES						
DICHLORODIFLUOROMETHANE	U	0.090	ug/L	1.0	0.090	
CHLOROMETHANE	U	0.10	ug/L	1.0	0.10	
VINYL CHLORIDE	U	0.070	ug/L	1.0	0.070	
1,3-BUTADIENE	U	0.20	ug/L	1.0	0.20	
BROMOMETHANE	U	0.21	ug/L	1.0	0.21	
CHLOROETHANE	U	0.19	ug/L	1.0	0.19	
FLUOROTRICHLOROMETHANE	U	0.15	ug/L	1.0	0.15	
ETHYL ETHER	U	0.50	ug/L	1.0	0.50	
ACROLEIN	U	20	ug/L	1.0	20	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	U	0.10	ug/L	1.0	0.10	
1,1-DICHLOROETHENE	U	0.050	ug/L	1.0	0.050	
ACETONE	U	6.0	ug/L	1.0	6.0	
IODOMETHANE	U	0.50	ug/L	1.0	0.50	
CARBON DISULFIDE	U	0.10	ug/L	1.0	0.10	
ALLYL CHLORIDE	U	0.50	ug/L	1.0	0.50	
METHYLENE CHLORIDE	U	0.070	ug/L	1.0	0.070	
TERT-BUTYL ALCOHOL	U	25	ug/L	1.0	25	
ACRYLONITRILE	U	1.0	ug/L	1.0	1.0	
METHYL-T-BUTYL ETHER	U	0.50	ug/L	1.0	0.50	
TRANS-1,2-DICHLOROETHENE	U	0.14	ug/L	1.0	0.14	
DIISOPROPYL ETHER	U	0.50	ug/L	1.0	0.50	
VINYL ACETATE	U	0.20	ug/L	1.0	0.20	
1,1-DICHLOROETHANE	U	0.070	ug/L	1.0	0.070	
ETHYL-T-BUTYL ETHER	U	0.50	ug/L	1.0	0.50	
2-BUTANONE	U	3.0	ug/L	1.0	3.0	
ETHYL ACETATE	U	0.10	ug/L	1.0	0.10	
SEC-DICHLOROPROPANE	U	0.17	ug/L	1.0	0.17	
CIS-1,2-DICHLOROETHENE	U	0.050	ug/L	1.0	0.050	
METHYLACRYLATE	U	0.50	ug/L	1.0	0.50	
METHYLACRYLONITRILE	U	0.50	ug/L	1.0	0.50	
BROMOCHLOROMETHANE	U	0.14	ug/L	1.0	0.14	
TETRAHYDROFURAN	U	10	ug/L	1.0	10	
CHLOROFORM	U	0.070	ug/L	1.0	0.070	
1,1,1-TRICHLOROETHANE	U	0.080	ug/L	1.0	0.080	
1-CHLOROBUTANE	U	0.50	ug/L	1.0	0.50	
1,1-DICHLOROPROPENE	U	0.070	ug/L	1.0	0.070	
CARBON TETRACHLORIDE	U	0.14	ug/L	1.0	0.14	
BENZENE	U	0.050	ug/L	1.0	0.050	
1,2-DICHLOROETHANE	U	0.060	ug/L	1.0	0.060	
TERT-AMYL METHYL ETHER	U	0.50	ug/L	1.0	0.50	
TRICHLOROETHENE	U	0.050	ug/L	1.0	0.050	
1,2-DICHLOROPROPANE	U	0.12	ug/L	1.0	0.12	
METHYLMETHACRYLATE	U	0.50	ug/L	1.0	0.50	
DIBROMOMETHANE	U	0.090	ug/L	1.0	0.090	
BROMODICHLOROMETHANE	U	0.040	ug/L	1.0	0.040	
2-CHLOROETHYLVINYL ETHER	U	0.10	ug/L	1.0	0.10	
2-NITROPROPANE	U	0.50	ug/L	1.0	0.50	
CHLOROACETONITRILE	U	10	ug/L	1.0	10	
CIS-1,3-DICHLOROPROPENE	U	0.070	ug/L	1.0	0.070	
4-METHYL-2-PENTANONE	U	0.40	ug/L	1.0	0.40	

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

[redacted]#: B941-0001-1 Desert Petoleum - DP793 GW 1 gw-lo
[redacted]e: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Side Sewer 1 Groundwater discharge
Lab ID: L109353-2
Sample Type: QCFB (Field Blank Grab)
Date Collected: Dec 18 2003, 10:15am Sample collector: A COMEAUX
Date Received: Dec 18 2003, 10:45am Sample receiver: CSOOHOO
Sample Comments: QCFB FOR L109353-1 PREP'D ON 12/16/03 BY TCB ACID LOT# 111703/L108776-1 BOTTLE#59

Method Reference | Matrix | Tag

Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML
1,1-DICHLORO-2-PROPANONE	U	1.0	ug/L	1.0	1.0	
TOLUENE	U	0.070	ug/L	1.0	0.070	
TRANS-1,3-DICHLOROPROPENE	U	0.020	ug/L	1.0	0.020	
ETHYLMETHACRYLATE	U	0.50	ug/L	1.0	0.50	
1,1,2-TRICHLOROETHANE	U	0.030	ug/L	1.0	0.030	
TETRACHLOROETHENE	U	0.11	ug/L	1.0	0.11	
1,3-DICHLOROPROPANE	U	0.070	ug/L	1.0	0.070	
2-HEXANONE	U	0.10	ug/L	1.0	0.10	
DIBROMOCHLOROMETHANE	U	0.060	ug/L	1.0	0.060	
ETHYLENE DIBROMIDE	U	0.10	ug/L	1.0	0.10	
CHLOROBENZENE	U	0.050	ug/L	1.0	0.050	
1,1,1,2-TETRACHLOROETHANE	U	0.030	ug/L	1.0	0.030	
ETHYL BENZENE	U	0.080	ug/L	1.0	0.080	
M+P XYLENES	U	0.22	ug/L	1.0	0.22	
O-XYLENE	U	0.11	ug/L	1.0	0.11	
STYRENE	U	0.080	ug/L	1.0	0.080	
BROMOFORM	U	0.10	ug/L	1.0	0.10	
ISOPROPYLBENZENE	U	0.11	ug/L	1.0	0.11	
BROMOBENZENE	U	0.080	ug/L	1.0	0.080	
[redacted]S-1,4-DICHLORO-2-BUTENE	U	0.50	ug/L	1.0	0.50	
[redacted]2,2-TETRACHLOROETHANE	U	0.11	ug/L	1.0	0.11	
1,2,3-TRICHLOROPROPANE	U	0.080	ug/L	1.0	0.080	
N-PROPYLBENZENE	U	0.090	ug/L	1.0	0.090	
O-CHLOROTOLUENE	U	0.12	ug/L	1.0	0.12	
P-CHLOROTOLUENE	U	0.080	ug/L	1.0	0.080	
1,3,5-TRIMETHYLBENZENE	U	0.18	ug/L	1.0	0.18	
TERT-BUTYLBENZENE	U	0.080	ug/L	1.0	0.080	
PENTACHLOROETHANE	U	0.20	ug/L	1.0	0.20	
1,2,4-TRIMETHYLBENZENE	U	0.35	ug/L	1.0	0.35	
SEC-BUTYLBENZENE	U	0.10	ug/L	1.0	0.10	
1,3-DICHLOROBENZENE	U	0.060	ug/L	1.0	0.060	
P-ISOPROPYLTOLUENE	U	0.080	ug/L	1.0	0.080	
1,4-DICHLOROBENZENE	U	0.040	ug/L	1.0	0.040	
1,2-DICHLOROBENZENE	U	0.050	ug/L	1.0	0.050	
N-BUTYLBENZENE	U	0.10	ug/L	1.0	0.10	
BIS(2-CHLOROISOPROPYL)ETHER	U	0.60	ug/L	1.0	0.60	
HEXACHLOROETHANE	U	1.0	ug/L	1.0	1.0	
DIBROMOCHLOROPROPANE	U	0.47	ug/L	1.0	0.47	
NITROBENZENE	U	20	ug/L	1.0	20	
1,2,4-TRICHLOROBENZENE	U	0.11	ug/L	1.0	0.11	
HEXACHLOROBUTADIENE	U	0.12	ug/L	1.0	0.12	
NAPHTHALENE	U	0.10	ug/L	1.0	0.10	
1,2,3-TRICHLOROBENZENE	U	0.11	ug/L	1.0	0.11	
INTERNAL STANDARD						
FLUOROBENZENE		75.6	% recovery	1.00		
D5-CHLOROBENZENE		70.8	% recovery	1.00		
D4-1,4-DICHLOROBENZENE		60.0	% recovery	1.00		
SURROGATE PARAMETERS						
DIBROMOFLUOROMETHANE		98.0	% recovery	1.00		
D4-DICHLOROETHANE		99.6	% recovery	1.00		
D8-TOLUENE		96.4	% recovery	1.00		
4-BROMOFLUOROBENZENE		94.2	% recovery	1.00		

R[redacted]ID: R120215 / Work Group No.: WG108244
[redacted]Date1: 24-DEC-03 Analyzed 24-DEC-03

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EAST BAY MUNICIPAL UTILITY DISTRICT
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Analytical Results Report

LSR#: B941-0001-1 Desert Petoleum - DP793 GW 1 gw-lo
Site: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Cidc Sewer 1 Groundwater discharge

Lab ID: L109353-2
Sample Type: QCFB (Field Blank Grab)
Date Collected: Dec 18 2003, 10:15am Sample collector: A COMEAUX
Date Received: Dec 18 2003, 10:45am Sample receiver: CSOOHOO
Sample Comments: QCFB FOR L109353-1 PREP'D ON 12/16/03 BY TCB ACID LOT# 111703/L108776-1 BOTTLE#59

Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Prelog or Login No.: L109353

Project Title
Desert Petoleum - DP793 GW 1 gw-lo
Account or Project: B941-0001-1

Client PM: MOLLY ONG
Tel No.: 1618
Lab PM: KENNETH GERSTMAN

Sampled by: A COMEAUX
Rcvd: 18-DEC-03 10:45
Sample Date: 18-DEC-03

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Preservative	Date Initials	DueDate pH
L109353-1	GRAB	10:15	IW S	DP793 GW 1	WasteH2O	495627	VOA4A 624			08-JAN-04
					WasteH2O	495628	VOA4A 624			
					WasteH2O	495629	VOA4A 624			
					WasteH2O		+REPORT			
ClientID:	Sample Comments: SAMPLES CLEAR AND ODORLESS Pricing: STD									
L109353-2	QCFB	10:15	IW S	DP793 GW 1	WasteH2O	495631	VOA4A 624			08-JAN-04
					WasteH2O	[illegible]	[illegible]			
ClientID:	Sample Comments: QCFB FOR L109353-1 PREP'D ON 12/16/03 BY TCB ACID LOT# 111703/L108776-1 BOTTLE#59 Pricing: STD									

Total containers received: 5

	Signature	Print Name	Time	Date
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by		Cynthia L Soohoo	10:45	18-DEC-03

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Login No:	Project Title: **Desert Petroleum**	Client PM: Molly Ong	Sampled by: Audrey L. Comeaux
L109353	Account: 504-35501	Tel No: 287-1618	
	LSR# **B941-0001-1**	Lab PM: K. Gerstman	Sample Date: 12-18-03

Lab No.	Sample Type	Collection Date/Time	Site	Locator	Sample Matrix	C	P	No. Cont/type	Tests Required	Comments/Remarks
1	Grab	12-18-03 1015 hours	IW S	DP793GW	02				EPA 624 + REPORT	samples clear and odorless
	Grab	12-18-03 1010 hours							+ Field Blank	

	Signature	Print Name	Time	Date
Relinquished by:	A. Comeaux	Audrey L. Comeaux	1045	12-18-03
Received by:				
Relinquished by:				
Received by:				
Relinquished by:				
Received by:	[illegible]	CAL TEA 800 420	1045	12/18/03

Comments

Sample Type code: **GRAB**, **COMP** (mult loc)
24 hr flow composites, cont. = **CF01**
each 3 hr. = **CF02**, variable flow = **CFV**
24 hr time composites, each 1 hr. = **CT01**
each 2 hr. = **CT02**, each 3 hr. = **CT03**
each 8 hr. = **CT04**, each 4 hr. = **CT09**
each 15 min = **CT15**, variable time = **CTV**
QCTB = Trip blank **QCFB** = Field blank

Check C = Appropriate **Container** type verified?
Check P = Appropriate **Preservation** verified?

Sample Matrix: **01** DrinkH_2O; **02** WasteH_2O; **03** Ground H_2O; **04** Salt H_2O; **05** Sludge; **06** Soil; **07** Air; **08** Bio Mat'l; **09** Misc Solid; **10** Liq Non-water; **11** Raw H_2O **12** MiscH_2O

APPENDIX F.

ALAMEDA COUNTY HEALTH ACCEPTANCE OF MAY 1, 2003 WORKPLAN, AMENDED OCTOBER 28, 2003.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

RO0000429

June 8, 2004

Mr. Bill Thompson
Desert Petroleum
P.O. Box 1601
Oxnard, CA 93032

Mr. Kin Man Li et al
P.O. Box 348
Oakland, CA 94604

RE: Soil and Water Investigation, Former J&M Service Station, 4035 Park Boulevard, Oakland, CA 94602

Dear Messrs. Thompson and Li:

We are in receipt and have completed review of the May 1, 2003 Western Geo-Engineers (WEGE) work plan entitled "*Workplan to Investigate Contaminated Soils Above and Below the Water Table, Former Desert Petroleum Site DP 793*". The cited WEGE work plan proposes alternative methodologies for advancement of soil borings to assess soil and ground water conditions in the area beneath and adjacent to the location of the former station building. This initial WEGE work plan was later amended with an October 28, 2003 revision that updated the original soil boring locations and increased their number, and expounded on descriptions of boring techniques and sampling methodologies, among other topics.

The cited WEGE work plan, as revised, has been accepted for this phase of work at the site with the following clarifications:

1. Soil samples are to be collected according to standard and acceptable industry practices that allow for the collection of undisturbed samples precluding the loss of volatile compounds that might be present in sampled soil.

2. Depth discrete soil samples shall be retained for laboratory analyses from both the saturated and unsaturated zones to total depth explored. Depth discrete water samples shall also be collected to depth explored and preferentially from regions of the saturated zone exhibiting relatively higher permeabilities.

3. No more than 2' of screen shall be exposed in the Hydropunch (or similar) sampling device at each sampling interval for the collection of depth discrete ground water samples.

4. Target analytes for both soil and ground water samples shall include, in addition to those proposed, <u>*total*</u> fuel oxygenates. Polynuclear aromatic (PNA) compounds shall also be

sought in those soil samples collected in the area where the hydraulic lifts were previously located.

5. Determination of appropriate and necessary physical soil parameters (e.g., fraction organic carbon, bulk density, etc.) through collection and analyses of additional soil samples is recommended for completion of the site-specific risk assessment.

TECHINCAL REPORT REQUEST

Please submit technical reports according to, or otherwise comply with, the following schedule:

60 Days from Completion of Soil and Water Investigation – Soil and Water Investigation Report (which incorporates recommendations for additional assessment work as needed)

90 Days after Submittal of Soil and Water Investigation Report - Corrective Action Plan

July 15, 2004 – Quarterly Report for Second Quarter 2004

October 15, 2004 – Quarterly Report for the Third Quarter 2004

January 15, 2005 – Quarterly Report for the Fourth Quarter 2004

April 15, 2005 – Quarterly Report for the First Quarter 2005

These reports and work plans are being requested pursuant to the Regional Board's authority under Section 13267(b) of the California Water Code. **Each technical report shall include conclusions and recommendations for the next phases of work required at the site should more appear necessary to refine the SCM.** We request that all required work be performed in a prompt and timely manner, as suggested by the noted schedule, above. Revisions to this schedule shall be requested in writing with appropriate justification for anticipated delays.

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that all work plans and technical reports containing professional geologic or engineering evaluations and/or judgments be completed under the direction of an appropriately registered or certified professional. This registered or certified professional shall sign and wet stamp all such reports and work plans.

All reports and work plans are to be submitted under cover, signed under penalty of perjury, by the Responsible Party(ies) who have taken a lead role in compliance with corrective action directives.

Please contact me at (510) 567-6783 should you have any questions and to inform when fieldwork has been slated to begin.

Sincerely,

Scott Seery, R.G., CHMM
Senior Hazardous Materials Specialist

c: Betty Graham, RWQCB
Leroy Griffin, Oakland Fire Department
David Charter, SWRCB UST Fund
David Self, 18 Crow Canyon Ct., Ste. 205, San Ramon, CA 94583
Toni Razi, 3609 E. 14th St., Oakland, CA 94601
Derrick Williams, 4032 Brighton Ave., Oakland, CA 94602
Michael Gabriel, Glenview Neighborhood Assoc.
4200 Park Blvd., Box 111, Oakland, CA 94602
George Converse, Western Geo-Engineers, 1386 Beamer St., Woodland, CA 95776