P & D Environmental

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916



April 15, 2004 Report 0014.R51

Mr. Ted Simas Mr. Keith Simas Xtra Oil Company 2307 Pacific Ave. Alameda, CA 94501

SUBJECT:

GROUNDWATER MONITORING AND SAMPLING REPORT

(JANUARY THROUGH APRIL 2004)

Xtra Oil Company

3495 Castro Valley Blvd. Castro Valley, California

Gentlemen:

P&D Environmental, a division of Paul H. King, Inc. (P&D) is pleased to present this report documenting the results of quarterly monitoring and sampling of both the on- and off-site wells for the subject property. This work was performed in accordance with P&D's proposal 020599.P1 dated February 5, 1999. Offsite observation wells OW1 and OW2 and onsite groundwater monitoring well MW4 were monitored and sampled on February 11, 2004. Offsite observation wells OW1 and OW2 and onsite wells MW1, MW3, MW4, and EW1 were monitored on April 6, 2004. In addition, all of the offsite and onsite wells were sampled on April 6, 2004, with the exception of well MW4. The reporting period for this report is for January through April 2004. A Site Location Map (Figure 1), a Site Plan showing onsite well locations (Figure 2), and a Site Vicinity Map showing offsite observation well locations (Figure 3) are attached with this report.

BACKGROUND

The site is currently used as a gasoline station. Four 12,000 gallon underground fuel storage tanks are present at the site. Three of the tanks contain gasoline and the fourth tank contains diesel fuel. A 550 gallon waste oil tank was removed from the site in November, 1988. The fuel tanks were replaced during August, 1992.

Three monitoring wells, designated as MW1, MW2 and MW3 were installed at the site on February 14 and 15, 1990 by Western Geo-Engineers. The subsurface materials encountered in the boreholes consisted primarily of silt and clay. The locations of the monitoring wells are shown in Figure 2. Soil samples collected during drilling of the boreholes for the monitoring wells revealed the presence of total petroleum hydrocarbons as gasoline (TPH-G) and total petroleum hydrocarbons as diesel (TPH-D). TPH-G was encountered in borehole MW1 at depths of 5 and 10 feet below grade at concentrations of 40 and 1,400 mg/kg, respectively; in borehole MW2 at depths of 10 and 15 feet below grade at concentrations of 230 and 95 mg/kg, respectively; and in borehole MW3 at depths of 5, 10 and 15 feet at concentrations of 140, 250 and 25 mg/kg, respectively. In addition, 120 mg/kg TPH-D was detected in borehole MW3 at a depth of 5 feet. Soil samples collected at a depth of 20 feet in borehole MW1 and at a depth of 18 feet in boreholes in MW2 and MW3 did not show any detectable concentrations of TPH-G or TPH-D. Groundwater was encountered in the boreholes at depths of approximately 15 to 16 feet below grade.

On February 15, 1990 Western Geo-Engineers drilled three exploratory boreholes at the site designated as SB1, SB2 and SB3. The subsurface materials encountered in the boreholes consisted primarily of silt and clay. The approximate locations of the boreholes are shown on Figure 2. It is P&D's understanding that soil samples were collected from the exploratory boreholes at depths of 10 and 12 feet and evaluated in the field using a photo ionization detector. In borehole SB1, TPH-G was detected at the depths of 10 and 12 feet at concentrations of 1,700 and 450 mg/kg, respectively. In boreholes SB2 and SB3, TPH-G was detected at the depths of 10 and 12 feet in both boreholes at concentrations of 800 mg/kg and greater than 2,000 mg/kg, respectively. A groundwater monitoring and sampling program was initiated at the site on February 20, 1990.

It is P&D's understanding that during fuel tank replacement activities in August, 1992 soil surrounding the tank pit was removed and disposed of offsite. An extraction well, designated as EW1, was designed and constructed in one corner of the new tank pit by K&B Environmental at the time of installation of the new tanks. The location of EW1 is shown on Figure 2.

On February 7, 1996 well MW2 was destroyed for the purpose of widening Redwood Road. The destruction was overseen by ACC Environmental Consultants of Oakland, California.

On August 15, 1997 P&D personnel oversaw the installation of one groundwater monitoring well, designated as MW4 at the subject site. The location of the monitoring well is shown on the attached Site Plan, Figure 2. This work was performed in accordance with P&D's work plan 0014.W4 dated June 27, 1997. The work plan was approved by the Alameda County Department of Environmental Health (ACDEH) in a telephone conversation with Mr. Scott Seery on August 14, 1997. During the conversation, Mr. Seery indicated that he would record his approval of the work plan in the county file for the site. In accordance with an October 25, 2002 letter from Mr. Seery, groundwater samples are to be analyzed for fuel oxygenates (MTBE, TAME, ETBE, TAME and TBA), and lead scavengers (EDB, 1,2-DCA/EDC) using EPA Method 8260; and data for observation wells OW1 and OW2, located in Redwood Road, are to be incorporated into monitoring and sampling reports for the subject site.

FIELD ACTIVITIES

Offsite observation wells OW1 and OW2 and onsite groundwater monitoring well MW4 were monitored and sampled on February 11, 2004. In well MW4, only the separate phase hydrocarbon layer was sampled. Offsite observation wells OW1 and OW2 and onsite wells MW1, MW3, MW4, and EW1 were monitored on April 6, 2004. In addition, all of the offsite and onsite wells were sampled on April 6, 2004, with the exception of well MW4. A joint groundwater monitoring with Allisto Engineering, Inc. was not performed.

The wells were monitored for depth to water and the presence of free product or sheen. In wells MW4, OW1 and OW2 the depth to water and depth to free product was measured to the nearest 1/32-inch with a steel tape and water-finding or product-finding paste. In wells MW1, MW3, and EW1, the depth to water was measured to the nearest 0.01 foot using an electric water level indicator. The presence of free product and sheen was evaluated using a transparent bailer in wells MW1, MW3, and EW1.

On February 11, 2004 offsite observation wells OW1 and OW2 and onsite monitoring well MW4 were monitored for depth to water and the presence of free product prior to sampling. No free product was detected in either of the observation wells. A 2.70-foot thick separate phase petroleum hydrocarbon layer was measured in well MW4 on February 11, 2004.

On April 6, 2004 offsite observation wells OW1 and OW2 and onsite wells MW1, MW3 and EW1 were monitored prior to sampling. Well MW4 was also monitored but not sampled. No free product was observed in any of the wells with the exception of well MW4 where 2.70 feet of free product was encountered.

The passive hydrocarbon collection device in well MW4 was accidentally disconnected and sank in the well during the monitoring and sampling event on June 19, 2003 and was not present in well MW4 at the time of the sampling event on February 11, 2004 or the monitoring event on April 6, 2004. Depth to water level and free product layer thickness measurements are presented in Table 1.

On February 11, 2004, and again on April 6, 2004 offsite observation wells OW1 and OW2 were sampled using a vacuum pump and 0.25-inch diameter polyethylene tubing. On February 11, 2004, the floating separate phase layer in well MW4 was sampled using the same method. Based on the small sample volumes in wells OW1 and OW2, the wells were not purged prior to sample collection. Similarly, well MW4 was not purged prior to sampling the floating separate phase layer. The water samples from the wells were decanted to sample bottles and managed as described below. Because of the small sample volume obtained from well OW2, only one VOA vial was partially filled with sample from well OW2.

Prior to well sampling on April 6, 2004, onsite wells MW1, MW3, and EW1 were purged of a minimum of three casing volumes of water, or until the wells had been purged dry. During purging operations, the field parameters of electrical conductivity, temperature, and pH were monitored. Once the field parameters were observed to stabilize, and a minimum of three casing volumes had been purged or the wells had purged dry and partially recovered, water samples were collected using a clean Teflon bailer.

The water samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials and I-liter amber glass bottles that were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to assure that no air bubbles were present.

The VOA vials and bottles were then transferred to a cooler with ice, until they were transported to McCampbell Analytical, Inc. in Pacheco, California. McCampbell Analytical, Inc. is a State-certified hazardous waste testing laboratory. Chain of custody documentation accompanied the samples to the laboratory. Records of the field parameters measured during well purging are attached with this report.

HYDROGEOLOGY

Water levels were measured in all of the wells once during the quarter, and in wells OW1, OW2 and MW4 twice during the quarter. The measured depth to water in offsite observation wells OW1 and OW2 on February 11, 2004 was 7.01 and 7.19 feet, respectively. The measured depth to water in well MW4 on February 11, 2004 was 9.75 feet. The floating separate phase layer in well MW4

on February 11, 2004 was measured as 2.70 feet in thickness. The measured depth to water for onsite wells MW1, MW3, MW4 and EW1 on April 6, 2004 was 7.93, 7.41, 9.58 and 6.63 feet, respectively. The floating separate phase layer in MW4 on April 6, 2004 was 2.83 feet in thickness. Using a specific gravity of 0.75, the corrected depth to water in well MW4 on April 6, 2004 is 7.46 feet. Since the previous quarter, the measured depth to water on April 6, 2004 has decreased in wells MW1 and MW3 by 0.28 and 0.42 feet, respectively and increased in well EW1 by 0.09 feet. In well MW4, the separate phase layer thickness has increased 1.32 feet from 1.51 feet in thickness on December 18, 2003 to 2.83 feet in thickness on April 6, 2004. The corrected groundwater elevation in well MW4 has increased by 1.16 feet since the previous quarter.

Based on the groundwater surface elevations in monitoring wells MW1 and MW3 and the corrected groundwater surface elevation in well MW4, the groundwater flow direction at the site on April 6, 2004 was calculated to be to the southeast east with a gradient of 0.0060. Since the previous monitoring event the groundwater flow direction at the site has shifted from the east toward the southeast and the gradient has increased from 0.0053. The groundwater flow direction on April 6, 2003 is shown on Figure 2.

LABORATORY RESULTS

The groundwater sample collected from offsite observation well OW1 on February 11, 2004 was analyzed for TPH-Multirange using Modified EPA Method 8015; and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), as well as, fuel oxygenates (MTBE, TAME, ETBE, TAME, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC). Because of the limited sample volume collected from well OW2 on February 11, 2004, the sample from well OW2 was analyzed for TPH-G, MTBE and BTEX using EPA Method 8021 and Modified EPA Method 8015. Adequate sample volume remained after the initial analysis to also analyze the sample for BTEX, fuel oxygenates and lead scavengers using EPA Method 8260. The floating separate phase layer collected from well MW4 on February 11, 2004 was analyzed for fuel finger print evaluation using EPA Method 8015C.

The groundwater samples collected from offsite well OW1 and onsite monitoring wells MW1, MW3, and EW1 on April 6, 2004 were analyzed for TPH-D and TPH-G using Modified EPA Method 8015; BTEX, fuel oxygenates, and lead scavengers using EPA Method 8260. Because of the limited sample volume collected from well OW2 on April 6, 2004, the sample from well OW2 was analyzed for TPH-G, MTBE and BTEX using EPA Method 8021 and Modified EPA Method 8015.

The laboratory analytical results for the groundwater sample from well OW1 show that TPH-G, TPH-D and TPH-MO were detected at concentrations of 38, 1900, and 570 mg/L, respectively. In addition benzene was detected at a concentration of 2 mg/L. None of the fuel oxygenates or lead scavengers were detected. Review of the laboratory analytical reports shows that the results reported as TPH-D are identified by the laboratory as consisting of both gasoline and diesel-range compounds. Review of the fuel finger print results shows that the sample is identified as diesel, with a small amount of gasoline present.

The laboratory analytical results of the samples collected February 11, 2004 from wells OW1 and OW2 showed that TPH-G, TPH-D, and TPH-MO were detected in well OW1 at concentrations of 15, 450 and 130 mg/L, respectively. Review of the laboratory analytical reports shows that the results reported

as TPH-D are identified by the laboratory as consisting of both gasoline and diesel-range compounds. Benzene was detected at a concentration of 2.2 mg/L, and MTBE was not detected. In well OW1, the only analytes detected were TPH-G, MTBE and TBA at concentrations of 0.21, 0.0064 and 0.007 mg/L, respectively (MTBE was also detected using EPA Method 8021 at a concentration of 0.0059 mg/L).

Review of the fuel finger print analysis for the sample of the floating separate phase layer collected from well MW4 on February 11, 2004 shows that the laboratory identified the sample as consisting predominantly of diesel, with a less significant amount of gasoline present.

The laboratory analytical results of the samples collected April 6, 2004 from wells OW1 and OW2 showed that TPH-G and TPH-D were detected in well OW1 at concentrations of 50 and 74 mg/L, respectively. Review of the laboratory analytical reports shows that the results reported as TPH-D are identified by the laboratory as consisting of both gasoline and diesel-range compounds. Benzene was detected at a concentration of 3.1 mg/L, and MTBE was not detected. In well OW1, the only analyte detected was TPH-G at a concentration of 0.069 mg/L.

The laboratory analytical results for the samples collected on April 6, 2004 from wells MW1, MW3 and EW1 show TPH-D concentrations of 18, 32, and 3.4 mg/L, respectively. Review of the laboratory analytical reports indicates that the TPH-D results for each of the wells consist of both diesel- and gasoline-range compounds. In addition, laboratory results from MW1, MW3, and EW1 show TPH-G concentrations of 28, 81 and 2.6 mg/L, respectively, and benzene was detected at concentrations of 2.3, 34 mg/L and not detected, respectively. MTBE was detected at concentrations of 0.11, 17 and 72 mg/L, respectively. No other fuel oxygenates or lead scavengers were detected except for t-butyl alcohol (TBA) at concentrations of 8.8 and 34 mg/L in wells MW3 and EW1, respectively.

Since the previous sampling of wells MW1, MW3 and EW1 on December 18, 2003, TPH-D concentrations have increased in wells MW1 and EW1, benzene concentrations have increased in wells MW1 and MW3, and TPH-G and MTBE concentrations have increased in wells EW1 and MW1, respectively. The laboratory analytical results for the groundwater samples are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

Wells OW1 and OW2 were monitored and sampled twice during the quarter. Wells MW1, MW3, EW1 were monitored and sampled once during the quarter. Well MW4 was monitored twice and sampled once during the quarter. No separate phase hydrocarbon layer was observed in wells OW1 or OW2. Based on the small sample volumes associated with well OW2, it is suspected that the water detected in the bottom of the well was water that had accumulated in the bottom cap of the well.

A floating separate phase layer was measured in well MW4 on February 11, 2004 and April 6, 2004 with a thickness of 2.70 and 2.83 feet, respectively. A sample of the separate phase layer showed the petroleum hydrocarbons to consist predominantly of diesel, with a small amount of gasoline. The passive hydrocarbon collection device in well MW4 was accidentally disconnected and sank in the well during the previous monitoring and sampling event on June 19, 2003 and was not present in well MW4

at the time of the monitoring and sampling event on February 11, 2004 and the monitoring event on April 6, 2004. The separate phase layer thickness in well MW4 has increased from 1.51 feet in thickness on December 18, 2003 to 2.83 feet in thickness on April 6, 2004.

It is P&D's understanding that the hydrocarbon collection device in well MW4 is maintained by Xtra Oil Company personnel. P&D recommends that the collection device be repaired for use, and a log be maintained of product removed. P&D recommends that use of petroleum hydrocarbon absorbent socks in well MW1 be continued. The sock in MW1 needs to be replaced, and socks should be checked periodically and replaced as needed.

The laboratory analytical results of the water samples collected from well OW1 show that TPH-G, TPH-D and benzene were detected on April 6, 2004 at concentrations of 0.050, 0.074, and 3.1 mg/L, respectively. The TPH-D detected in well OW1 was identified as consisting of both gasoline- and diesel-range compounds. In well OW2, based on the very small sample volume in the observation well, less than one VOA vial of sample was collected during each of the sampling events on February 11 and April 6, 2004. Review of the sample results shows that the sample collected on February 11 contained TPH-G, MTBE and TBA at concentrations of 0.21, 0.0064 and 0.0070 mg/L, respectively, and that the sample collected on April 6, 2004 contained 0.069 mg/L TPH-G. Because of the small sample volume, TPH-D analysis was not possible for either of the sampling events, and EPA 8260 analysis was not possible for the April 6, 2004 sampling event. The presence of petroleum hydrocarbons in both observation wells suggests that petroleum hydrocarbons could be preferentially migrating in the sanitary sewer trench where the observation wells are located.

The laboratory analytical results for the groundwater samples collected on April 6, 2004 from wells MW1, MW3, and EW1 showed that TPH-D concentrations ranged from 3.4 to 32 mg/L, TPH-G concentrations ranged from 2.6 to 81 mg/L, and benzene concentrations ranged from not detected to 34 mg/L. Review of the results for the fuel oxygenate and lead scavenger analysis shows that only MTBE and TBA were detected with MTBE detected in all of the wells at concentrations ranging from 0.11 to 72 mg/L and TBA detected in wells MW3 and EW1 at concentrations of 8.8 and 34 mg/L, respectively.

Based on the laboratory analytical results of the water samples collected from the monitoring wells, P&D recommends that groundwater monitoring and sampling be continued. In addition, P&D recommends that future monitoring and sampling efforts be coordinated with other sites in the vicinity of the subject site that are presently being monitored and sampled.

DISTRIBUTION

Copies of this report should be sent to Mr. Scott Seery at the Alameda County Department of Environmental Health. Copies of the report should be accompanied by a transmittal letter signed by an authorized representative of Xtra Oil Company.

LIMITATIONS

This report was prepared solely for the use of Xtra Oil Company. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which

may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly-revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental

Paul H. King

President

California Registered Geologist

1 and H. King

Registration No. 5901

Expires: 12/31/05

Attachments:

Tables 1 & 2

Site Location Map (Figure 1)

Site Plan (Figure 2)

Site Vicinity Map (Figure 3)

Field Parameter Forms

Laboratory Analytical Results Chain of Custody Documentation

PHK/wrw 0014.R51

TABLE 1 WELL MONITORING DATA

| Well | Date | Top of Casing | Depth to | Water Table |
|------|--|---------------|--------------------------------------|--|
| No. | Monitored | Elev. (ft.) | Water (ft.) | Elev. (ft.) |
| MW1 | 04/06/04 12/18/03 09/18/03 06/19/03 03/18/03 | 177.37* | 7.93 7.65 8.15 8.13 7.77 | 169.44 169.72 169.22 169.24 169.60 |

NOTES:
* = Surveyed on August 20, 1997

TABLE 1 WELL MONITORING DATA

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|-------------|-------------------|------------------------------|-------------------------|----------------------------|
| MW1 | 12/21/02 | 177.37* | 5.74 | 171.63 |
| (Continued) | 9/10/02 | | 8.28 | 169.09 |
| , | 3/30/02 | | 7.43 | 169.94 |
| | 12/22/01 | | 6.92 | 170.45 |
| | 9/23/01 | | 8.53 | 168.84 |
| | 6/22/01 | | 8.30 | 169.07 |
| | 4/22/01 | | 7.77 | 169.60 |
| | 12/14/00 | | 8.49 | 168,88 |
| | 9/18/00 | | 8.56 | 168.81 |
| | 6/08/00 | | 7.97 | 169.40 |
| | 3/09/00 | | 6.68 | 170.69 |
| | 12/09/99 | | 8.15 | 169.22 |
| | 8/31/99 | | 8.36 | 169.01 |
| | 4/29/99 | | 7.68 | 169.69 |
| | 1/29/99 | | 6.99 | 170.38 |
| | 4/26/98 | | 7.50 | 169.87 |
| | 1/24/98 | | 6.61 | 170.76 |
| | 11/06/97 | | 8.79 | 168.58 |
| | 8/26/97 | | 8.51 | 168.86 |
| | 7/24/97 | 177.43** | 8.71 | 168.72 |
| | 4/25/97 | | 7.98 | 169.45 |
| | 1/20/97 | | 7.12 | 170.31 |
| | 7/26/96 | | 8.39 | 169.04 |
| | 7/09/96 | | 8.16 | 169.27 |
| | 4/23/96 | | 7.47 | 169.96 |
| | 2/07/96 | | 6.09 | 171.34 |
| | 1/29/96 | | 6.17 | 171.26 |
| | 10/26/95 | | 8.45 | 168.98 |
| | 7/28/95 | | 8.27 | 169.16 |
| | 5/02/95 | | 6.96 | 170.47 |
| | 2/23/95 | | 7.72 | 169.71 |
| | 11/18/94 | | 7.14 | 170.29 |
| | 8/22/94 | | 8.67 | 168. 7 6 |
| NOTES: | | | | |

^{*=} Surveyed on August 20, 1997 **= Surveyed on March 24, 1993 *** = Surveyed on December 5, 1992

TABLE 1 WELL MONITORING DATA

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|--------------------|---|------------------------------|--|--|
| MW1 (Continued) | 5/19/94 2/28/94 11/24/93 8/30/93 5/18/93 2/23/93 11/13/92 5/29/92 1/14/92 12/23/91 11/25/91 10/10/91 9/17/91 8/19/91 | 177.43** 200.00*** 175.73 | 8.05 7.44 8.74 8.78 8.12 7.34 9.13 8.59 8.57 9.65 9.41 9.70 9.50 9.31 | 169.38 169.99 168.69 168.65 169.31 170.09 190.87 167.14 167.16 166.08 166.32 166.03 166.23 |
| | 0/17/71 | | 7.31 | 100.42 |

^{* =} Surveyed on August 20, 1997 ** = Surveyed on March 24, 1993 *** = Surveyed on December 5, 1992

TABLE 1 WELL MONITORING DATA

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|-------------|-------------------|------------------------------|-------------------------|----------------------------|
| MW2 | NOT MEASU | JRED (DESTROYED (| ON FEBRUARY 7, 199 | 96) |
| | 2/07/96 | 176.04** | 5.70 | 170.34 |
| | 1/29/96 | | 5.16 | 170.88 |
| | 10/26/95 | | 8.21 | 167.83 |
| | 7/28/95 | | 7.99 | 168.05 |
| | 5/02/95 | | 6.79 | 169.25 |
| | 2/23/95 | | 7.51 | 168.53 |
| | 11/18/94 | | 6.92 | 169.12 |
| | 8/22/94 | | 8.59 | 167.45 |
| | 5/19/94 | | 7.70 | 168.34 |
| | 2/28/94 | | 6.99 | 169.05 |
| | 11/24/93 | | 8.47 | 167.57 |
| | 8/30/93 | | 8.64 | 167.40 |
| | 5/18/93 | | 7.73 | 168.31 |
| | 2/23/93 | | 6.39 | 169.65 |
| | 11/13/92 | 198.61*** | 8.70 | 189.91 |
| | 5/29/92 | 175.45 | 9.31 | 166.14 |
| | 1/14/92 | | 8.97 | 166.48 |
| | 12/23/91 | | 10.39 | 165.06 |
| | 11/25/91 | | 9.81 | 165.64 |
| | 10/10/91 | | 10.39 | 165.06 |
| | 9/17/91 | | 10.23 | 165.22 |
| | 8/19/91 | | 9.60 | 165.85 |

^{* =} Surveyed on August 20, 1997 ** = Surveyed on March 24, 1993

^{*** =} Surveyed on December 5, 1992

TABLE 1 WELL MONITORING DATA

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (fl.) | Water Table Elev. (ft.) |
|-------------|-------------------|------------------------------|-------------------------|----------------------------|
| MW3 | 04/06/04 | 176.40* | 7.41 | 168,99 |
| | 12/18/03 | | 6.99 | 169.41 |
| | 09/18/03 | | 7.91 | 168.49 |
| | 06/19/03 | | 7.60 | 168.80 |
| | 03/18/03 | | 7.35 | 169.05 |
| | 12/21/02 | | 5.43 | 170.97 |
| | 9/10/02 | | 7.97 | 168.43 |
| | 3/30/02 | | 6.97 | 169.43 |
| | 12/22/01 | | 6.44 | 169.96 |
| | 9/23/01 | | 8.17 | 168.23 |
| | 6/22/01 | | 8.06 | 168.34 |
| | 4/22/01 | | 7.50 | 168.90 |
| | 12/14/00 | | 8.13 | 168.27 |
| | 9/18/00 | | 7.83 | 168.57 |
| | 9/26/00 | | 7.77 | 168.63 |
| | 6/08/00 | • | 7.50 | 168.90 |
| | 3/09/00 | - | 6.08 | 170.32 |
| | 12/09/99 | | 7.90 | 168.50 |
| | 8/31/99 | | 7.95 | 168.45 |
| | 4/29/99 | | 7.09 | 169.31 |
| | 1/29/99 | | 6.42 | 169.98 |
| | 4/26/98 | | 6.85 | 169.55 |
| | 1/24/98 | | 5.90 | 170.50 |

^{* =} Surveyed on August 20, 1997 ** = Surveyed on March 24, 1993 *** = Surveyed on December 5, 1992

TABLE 1 WELL MONITORING DATA

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|-------------|-------------------|------------------------------|-------------------------|----------------------------|
| MW3 | 11/06/97 | | 7.80 | 168.80 |
| (Continued) | 8/26/97 | | 7.67 | 168.93 |
| | 7/24/97 | 176.41** | 7.90 | 168.51 |
| | 4/25/97 | | 7.12 | 169.29 |
| | 1/20/97 | | 6.35 | 170.06 |
| | 7/26/96 | | 7.84 | 169.57 |
| | 7/09/96 | | 7.61 | 168.80 |
| | 4/23/96 | | 6.81 | 169.60 |
| | 2/07/96 | | 5.05 | 170.36 |
| | 1/29/96 | | 5.77 | 170.64 |
| | 10/26/95 | | 7.72 | 168.69 |
| | 7/28/95 | | 7.80 | 168.61 |
| | 5/02/95 | | 6.50 | 169.91 |
| | 2/23/95 | | 7.24 | 169.17 |
| | 11/18/94 | | 6.05 | 170.36 |
| | 8/22/94 | 190.97*** | 7.65 | 168.76 |
| | 5/19/94 | | 7.15 | 169.26 |
| | 2/24/94 | | 6.68 | 169.73 |
| | 11/24/93 | | 7.55 | 168.86 |
| | 8/30/93 | | 7.64 | 168.77 |
| | 5/18/93 | | 7.12 | 169.29 |
| | 2/23/93 | | 8.01 | 168.40 |
| | 11/13/92 | | 7.86 | 191.12 |
| | 5/29/92 | 175.00 | 8.45 | 166.55 |
| | 1/14/92 | | 8.24 | 166.55 |
| | 12/23/91 | | 9.37 | 165.63 |
| | 11/25/91 | | 9.19 | 165.81 |
| | 10/10/91 | | 9.43 | 165.57 |
| | 9/17/91 | | 9.20 | 165.80 |
| | 8/19/91 | | 8.95 | 166.05 |

^{* =} Surveyed on August 20, 1997 ** = Surveyed on March 24, 1993 *** = Surveyed on December 5, 1992

TABLE 1 WELL MONITORING DATA

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Water Table Elev. (ft.) |
|-------------|-------------------|---------------------------|-------------------------|----------------------------|
| 140. | Wontorca | Liev. (It.) | vvator (11.) | LACV. (II.) |
| MW4 | 04/06/04 | 176.35* | 9.58 (2.83)# | 168.89 |
| | 02/11/04 | | 9.43 (2.70)# | 168.95 |
| | 12/18/03 | | 9.75 (1.51)# | 167.73 |
| | 9/18/03 | | 9.13 (1.80)# | 168.57 |
| | 6/19/03 | | 8.56 (0.31)# | 168.02 |
| | 3/18/03 | | 7.49 (0.06)# | 168.91 |
| | 12/21/02 | | 8.58 (4.39)# | 171.06 |
| | 9/10/02 | | 9.09 (1.60)# | 168.46 |
| | 3/30/02 | | 9.86 (2.49)# | 168.36 |
| | 12/22/01 | | 7.79 (1.75)# | 169.87 |
| | 9/23/01 | | 8.97 (1.17)# | 168.26 |
| | 6/22/01 | | 7. 7 9 | 168.56 |
| | 4/22/01 | | 9.07 (2.20)# | 168.93 |
| | 12/14/00 | | 8.87 (0.72)# | 168.02 |
| | 9/18/00 | | 8.50 (0.45)# | 168.19 |
| | 6/08/00 | | 7.34 | 169.01 |
| | 3/09/00 | | 6.61 (0.46)# | 170.08 |
| | 12/09/99 | | 8.80 | 167.55 |
| | 8/31/99 | | 8.28 | 168.07 |
| | 4/29/99 | | 7.14 | 169.21 |
| | 1/29/99 | | 6.68 | 169.67 |
| | 4/26/98 | | 6.87 | 169.48 |
| | 1/24/98 | | 6.61 | 169.74 |
| | 11/06/97 | | 9.16 | 167.19 |
| | 8/26/97 | | 8.92 | 167.43 |
| | 8/20/97 | | 7.66 (prior to develop | ment) |

^{* =} Surveyed on August 20, 1997

^{# =} Indicates free product thickness in feet. The water table elevation has been corrected for the presence of free product by assuming a free product specific gravity of 0.75.

TABLE 1 WELL MONITORING DATA

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) |
|-------------|-------------------|---------------------------|-------------------------|
| EW1 | 04/06/04 | Not Surveyed | 6.63 |
| | 12/18/03 | | 6.72 |
| | 9/18/03 | | 7.29 |

TABLE 1 WELL MONITORING DATA

| Well No. | Date Monitored | Top of Casing Elev. (ft.) | Depth to Water (ft.) | Total Well Depth (ft.) |
|-------------|--|---------------------------|--|---------------------------|
| OW1 | 04/06/04 02/11/04 10/06/03 11/02/00 12/09/99 01/29/99 | Not Surveyed | 7.01 7.01 7.07 (0.01)# 7.12,+ 7.27 7.12 | 7.44 7.44 7.44 |
| OW2 | 04/06/04 02/11/04 10/06/03 11/02/00 12/09/99 01/29/99 | Not Surveyed | 7.27 7.19 7.29 7.19 7.17 7.19 | 7.33 7.33 7.34 |

^{# =} Indicates free product thickness in feet.

^{+ =} Petroleum hydrocarbon odor reported on probe for water level indicator.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW1

| Date | TPH-D | TPH-G | МТВЕ | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260* |
|----------|--------------|-------|---------|---------|---------|-------------------|------------------|-------------------------------------|
| 4/6/04 | 18,a,b | 28,a | 0.11 | 2.3 | 0.8 | 0.99 | 4.5 | ND<0.1 TBA ND<1 |
| 12/18/03 | 13,b | 33 | 0.038 | 2.1 | 0.77 | 1.8 | 4.4 | ND<0.005 TBA ND<0.05 |
| 9/18/03 | 15,a,b | 32 | 0.052 | 2.2 | 0.62 | 1.8 | 3.8 | ND<0.017, TBA ND<0.17 |
| 6/26/03 | 67,a,b | 45 | ND<0.05 | 2.1 | 0.72 | 2.3 | 5.5 | ND |
| 3/18/03 | 7.3,a,b | 33 | ND<0.05 | 2.4 | 0.9 | 1.6 | 1.0 | ND |
| 12/21/02 | ll,a,b | 32 | ND<0.1 | 2.6 | 0.98 | 2.2 | 5.5 | ND |
| 9/10/02 | 18,c | 31 | ND<0.25 | 2.2 | 0.65 | 1.7 | 4.8 | |
| 3/30/02 | 12,a,b | 99 | ND | 4.1 | 1.2 | 2.5 | 6.4 | |
| 12/22/01 | 22,a,b | 60 | ND | 3.2 | 1.9 | 2 | 6.2 | |
| 9/23/01 | 16,a,c | 49 | ND | 4 | 1.4 | 2.2 | 6.2 | |
| 6/22/01 | 85,a,b | 35 | ND | 3.1 | 0.75 | 1.2 | 4.0 | |
| 4/22/01 | 16,a | 43 | ND | 3.6 | 1.2 | 1.6 | 5.8 | |
| 12/14/00 | 11,a,d | 49 | ND | 5.8 | 1.6 | 2 | 6.9 | |
| 9/18/00 | 15,a,b | 86 | ND | 7.2 | 2 | 3.2 | 13 | |
| 6/8/00 | 6.5,a,c | 50 | ND | 5.7 | 1.5 | 1.8 | 7 | |
| 3/9/00 | 7.4,a,b | 48 | ND | 5.3 | 3.1 | 1.6 | 8.1 | |
| 12/9/99 | 12,a,b | 65 | ND | 9.3 | 2.9 | 2.2 | 8.8 | |
| 8/31/99 | 22, b | 66 | 0.71 | 8.7 | 2.7 | 2.4 | 10 | |
| 4/29/99 | 22,b | 48 | ND | 8.4 | 2.8 | 2.0 | 8.1 | |
| 1/29/99 | 9.1,b | 47 | ND | 9.0 | 2.9 | 1.9 | 8.0 | |
| 4/26/98 | 7.8,c | . 60 | ND | 9,3 | 5,7 | 2.1 | 9.1 | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

- -- = Not Analyzed.
- a = Lighter than water immiscible sheen present on the sample.
- b = TPH-D results consist of both diesel-range and gasoline-range compounds.
- c = TPH-D results consist of both gasoline-range compounds.
- d = TPH-D results consist of both oil-range and gasoline-range compounds.
- * = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
Well MW1 (Continued)

| Date | TPH-D | TPH-G | MTBE | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260* |
|----------|-------|-------|------------|---------|---------|-------------------|------------------|-------------------------------------|
| 1/24/98 | 24,b | 57 | ND | 6.9 | 5.5 | 2.0 | 8.7 | |
| 11/6/97 | 17,c | 63 | ND | 7.4 | 6.7 | 2.3 | 9.9 | - |
| 7/27/97 | 28,c | 66 | 1.8 | 8.6 | 8,1 | 2.2 | 10 | |
| 4/25/97 | 170,b | 77 | ND | 7.4 | 7.9 | 2.1 | 9.8 | |
| 1/21/97 | 57,c | 80 | 0.25 | 7.8 | 8.3 | 1.9 | 8.9 | |
| 7/26/96 | 11,c | 76 | ND | 11 | 13 | 2.4 | 10 | |
| 4/23/96 | 5.7,c | 73 | ND | 8.6 | 12 | 2.2 | 9.8 | |
| 1/29/96 | 6.6,c | 81 | 0.25 | 7.6 | 13 | 1.9 | 8.9 | |
| 10/26/95 | 62,c | 89 | ND | 7.8 | 12 | 2.4 | 11 | |
| 7/28/95 | 2.0,c | 35 | | 3.8 | 8.7 | 1.1 | 6.5 | |
| 5/2/95 | 6.5,c | 86 | ~~ | 8.9 | 14 | 2.3 | 11 | |
| 2/24/95 | 9.1 | 90 | | 7,5 | 12 | 1.5 | 11 | |
| 11/18/94 | 10 | 96 | | 9.3 | 14 | 2.5 | 11 | |
| 8/22/94 | 8.3 | 100 | | 9.0 | 11 | 2.1 | 9.4 | 7- |
| 5/19/94 | 30 | 100 | | 12 | 14 | 3.5 | 17 | |
| 2/28/94 | 110 | 90 | 4 8 | 11 | 9.6 | 2.1 | 9.9 | |
| 11/24/93 | 8.2 | 66 | | 8.3 | 8.9 | 2.0 | 121 | |
| 8/30/93 | 9.4 | 77 | <u></u> | 6.4 | 11 | 2.2 | 12 | |
| 5/18/93 | 30 | 92 | | 4.0 | 11 | 2.5 | 15 | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

-- = Not Analyzed.

b = TPH-D results consist of both diesel-range and gasoline-range compounds.

c = TPH-D results consist of both gasoline-range compounds.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME,

ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW1 (Continued)

| Date | TPH-D | TPH-G | МТВЕ | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260* |
|----------|-------|-------|-------|---------|---------|-------------------|------------------|-------------------------------------|
| 2/23/93 | 14 | 100 | | 4.5 | 11 | 2.1 | 12 | |
| 11/13/92 | 4.4 | 120 | | 5.8 | 10 | 2.1 | 13 | |
| 5/27/92 | 11 | 120 | | 8,8 | 16 | 2.3 | 15 | |
| 1/24/92 | 19 | 39 | == | 7.3 | 8.7 | 1.3 | 8.9 | |
| 12/23/91 | 34 | 78 | | 9.3 | 7.3 | 0.54 | 13 | |
| 11/25/91 | 36 | 170 | | 5,5 | 5.6 | 1.6 | 8.4 | |
| 10/10/91 | 19 | 28 | | 4.1 | 4.7 | 1.0 | 4.8 | <u></u> |
| 9/17/91 | 19 | 39 | | 4.9 | 4.1 | 1.2 | 5.9 | |
| 8/19/91 | 47 | 48 | | 13 | 8.4 | 0.99 | 29 | |
| 7/20/91 | 49 | 100 | | 11 | 14 | 2.3 | 17 | - |
| 6/20/91 | 42 | 76 | | 4.7 | 7.1 | 1.5 | 9.8 | - |
| 5/17/91 | 26 | 72 | | 7.7 | 9.9 | ND | 11 | ** |
| 4/15/91 | | 56 | A 10. | 6.5 | 8.5 | 0.41 | 9.9 | |
| 3/21/91 | | 36 | | 4.5 | 5.7 | 0.087 | 7.3 | |
| 2/15/91 | | 120 | | 7.4 | 6.6 | ND | 13 | |
| 1/15/91 | | 33 | | 3.9 | 2,9 | 0,21 | 5.3 | |
| 9/27/90 | | 28 | | 3.7 | 3.5 | 0.01 | 6.5 | |
| 8/23/90 | | 40 | | 5.1 | 4.9 | 0.35 | 6.0 | |
| 7/20/90 | 44 | | | 5.1 | 4.2 | ND | 9.1 | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

-- = Not Analyzed.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW1 (Continued)

| Date | TPH-D | TPH-G | MTBE | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260* |
|-----------|-------|-------|------|---------|---------|-------------------|------------------|-------------------------------------|
| 3/19/90 | - | 40 | | 3.7 | 1.1 | ND | 3.3 | |
| 2/20/90** | | 7.6 | 70 | 1.6 | ND | ND | 1.3 | |

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

- = Not Analyzed.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

** Inorganic lead not detected in sample.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW2

| | | ` | | 1 | | | | |
|-------------|-------|--------------|--------|---------|----------------------|-------------------|------------------|-------------------------------------|
| Date 2/7/96 | TPH-D | TPH-G | MTBE | Benzene | Toluene Destroyed | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260* |
| 211190 | | | | 1014021 | esitoyea | | | |
| 1/29/96 | 4.6,c | 38 | 0.0071 | 1.9 | 5.7 | 1.1 | 5.9 | |
| 10/26/95 | 900 | 74 | ND | 2.9 | 5.9 | 2.0 | 10 | |
| 7/28/95 | 2.0,c | 15 | | 1.4 | 2,3 | 0.62 | 3.2 | |
| 5/2/95 | 6.6,b | 55 | | 3,3 | 10 | 1.8 | 10 | |
| 2/24/95 | 22 | 67 | | 4.9 | 11 | 1.8 | 11 | |
| 11/18/94 | 5.0 | 86 | == | 11 | 17 | 1.8 | 12 | |
| 8/22/94 | 4.1 | 91 | | 10 | 13 | 1.5 | 9.0 | |
| 5/19/94 | 5.8 | 62 | == | 92 | 13 | 1.3 | 8.4 | |
| 2/28/94 | 13 | 91 | | 13 | 16 | 1.5 | 9.0 | |
| 11/24/93 | 79 | 12 | | 13 | 17 | 2.5 | 17 | |
| 8/30/93 | 110 | 110 | | 11 | 14 | 1.8 | 11 | |
| 5/18/93 | 44 | 67 | | 9.2 | 12 | 1.4 | 9.3 | |
| 2/23/93 | 7.0 | 76 | | 12 | 17 | 1.6 | 9.6 | |
| 11/13/92 | 8.2 | 79 | | 10 | 13 | 1.4 | 8.6 | |
| 5/27/92 | 130 | 89 | | 18 | 19 | 1.7 | 14 | |
| 1/14/92 | 1600 | 59 | | 17 | 14 | 1.8 | 15 | |
| 12/23/91 | 700 | 2100 | | . 36 | 130 | 79 | 560 | |
| 11/25/91 | 130 | 230 | *- | 11 | 9.7 | 1.4 | 9.7 | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

- = Not Analyzed.

b = TPH-D results consist of both diesel-range and gasoline-range compounds.

c = TPH-D results consist of both gasoline-range compounds.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW2 (Continued)

| Date 10/10/91 | TPH-D 360 | TPH-G 85 | MTBE | Benzene 21 | Toluene 25 | Ethyl- benzene 2.1 | Total Xylenes 14 | Other Fuel Additives by 8260* |
|------------------|--------------|-------------|----------|---------------|---------------|--------------------------|------------------------|-------------------------------------|
| 9/17/91 | 56 | 74 | | 10 | 11 | 1.4 | 8.1 | _ |
| 8/19/91 | 19 | 69 | - | 26 | 22 | 2.1 | 18 | |
| 7/20/91 | 100 | 51 | | 9,9 | 7.7 | 1.2 | 7.5 | |
| 6/20/91 | 69 | 87 | | 8.1 | 8.4 | 1.1 | 8.9 | |
| 5/17/91 | 33 | 62 | | 5.9 | 6.3 | 1.2 | 9.0 | |
| 4/15/91 | | 82 | apa kang | 5.3 | 7.4 | 1.0 | 9.4 | |
| 3/21/91 | | 62 | | 9.3 | 11 | 0.35 | 9.7 | |
| 2/15/91 | | 200 | | 12 | 12 | 1.7 | 14 | |
| 1/14/91 | | 78 | | 11 | 8.7 | 0.58 | 8.0 | |
| 9/27/90 | | 59 | | 8.4 | 12 | 0.88 | 9.0 | |
| 8/23/90 | | 96 | | 8.1 | 8.4 | 1.5 | 8.6 | |
| 7/20/90 | 86 | | | 9.1 | 14 | 0.94 | 13 | |
| 3/19/90 | | 50 | | 7.7 | 8.7 | 0.075 | 5.6 | · |
| 2/20/90** | | 38 | | 7.3 | 3.1 | 0.075 | 6.8 | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

-- = Not Analyzed.

* = This column summarizes results for analysis using EPA Method 8260 f

| • | ı | , | | | | |
|---|---|---|------|--|---|--|
| | | | | | | |
| | | | | | - | |
| | | | | | | |
| | | | | | | |

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW3

| Date | TPH-D | трн-б | МТВЕ | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260* |
|--------|--------|-------|------|---------|---------|-------------------|------------------|-------------------------------------|
| 4/6/04 | 32,a,b | 81,a | 17 | 34 | 5.9 | 1.5 | 9.9 | ND<0.5, except TBA = 8.8 |

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

-- = Not Analyzed.

a = Lighter than water immiscible sheen present on the sample.

b = TPH-D results consist of both diesel-range and gasoline-range compounds.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW3 (Continued)

| Date 12/18/03 | TPH-D 32,a,b | TPH-G 130,a | MTBE 32 | Benzene | Toluene 5.4 | Ethyl- benzene 0.72 | Total Xylenes | Other Fuel Additives by 8260* ND<0.5, |
|---------------|--------------|----------------|---------|---------|-------------|---------------------------|------------------|--|
| 12/16/03 | 32,4,0 | 130,4 | 32 | 33 | J,Ŧ | 0.72 | | except TBA = 17 |
| 9/18/03 | 140,a,b | 130 | 23 | 34 | 11 | 2.5 | 14 | ND<0.5, except TBA = 10 |
| 6/26/03 | 27,a,b | 96 | 21 | 29 | 5.2 | 2.0 | 10 | ND, except TBA = 8.9 |
| 3/18/03 | 11,a,b | 120 | 16 | 36 | 12 | 1.8 | 2.4 | ND, except TBA = 5.1 |
| 12/21/02 | 21,a,b | 110 | 33 | 34 | 9.3 | 2.0 | 13 | ND, except TBA = 14 |
| 9/10/02 | 43,b | 70 | 19 | 21 | 2.2 | 1.6 | 7.6 | |
| 3/30/02 | 8.5,a,b | 170 | 26 | 40 | 17 | 2.6 | 16 | |
| 12/22/01 | 9.2,a,b | 140 | 27 | 37 | 20 | 2.6 | 15 | |
| 9/23/01 | 47,a,b | 130 | 26 | 32 | 9.1 | 2.4 | 12 | |
| 6/22/01 | 33,a,b | 110 | 25 | 31 | 7.2 | 1.9 | 11 | |
| 4/22/01 | 61,a | 140 | 24 | 25 | 5.4 | 1.7 | 11 | |
| 12/14/00 | 120,a,b | 140 | 35 | 37 | 16 | 2.4 | 15 | |
| 9/18/00 | 43,a,b | 130 | 33 | 39 | 91 | 2.3 | 14 | |
| 7/26/00 | 4- | | 21 | | | | | ND***, except tert- butanol = 19 |
| 6/8/00 | 74,a,b | 130 | 23 | 41 | 16 | 1.9 | 13 | |
| 3/9/00 | 14,a,b | 180 | 24 | 39 | 22 | 2.5 | 16 | |
| 12/9/99 | 17,a,b | 120 | 16 | 35 | 6.7 | 2.4 | 12 | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

- -- = Not Analyzed.
- a = Lighter than water immiscible sheen present on the sample.
- b = TPH-D results consist of both diesel-range and gasoline-range compounds.
- * = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).
- ***Review of laboratory analytical reports indicate that oxygenated volatile organic compounds (including DIPE, ETBE, TAME, methanol, ethanol, EDB, and 1,2-DCA) were not detected except MTBE at 21 ppm and tert-butanol at 19 ppm. Results in milligrams per liter (mg/L), unless otherwise indicated.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW3 (Continued)

| Date | TPH-D | ТРН-G | MTBE | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260* |
|----------|-------|-------|----------|---------|---------|-------------------|------------------|-------------------------------------|
| 8/31/99 | 22,b | 120 | 4.7 | 35 | 3.7 | 2.4 | 14 | |
| 4/29/99 | 48,b | 100 | 2.5 | 33 | 8.0 | 2.1 | 14 | |
| 1/29/99 | 240,b | 84 | 1.3 | 31 | 2.8 | 1.8 | 12 | |
| 4/26/98 | 380,b | 100 | 9.7 | 29 | 7.1 | 1.8 | 14 | |
| 1/24/98 | 77,b | 97 | ND | 28 | 7.1 | 1.8 | 11 | |
| 11/6/97 | 120,b | 140 | ND | 37 | 19 | 2.4 | 14 | |
| 7/24/97 | 91,c | 120 | 1.4 | 33 | 17 | 2.2 | 12 | |
| 4/25/97 | 760,b | 240 | 1.6 | 24 | 18 | 4.1 | 24 | |
| 1/21/97 | 34,c | 150 | 1.3 | 40 | 14 | 2.6 | 12 | |
| 7/26/96 | 24,c | 130 | 0.89 | 40 | 22 | 2.4 | 12 | |
| 4/23/96 | 280,c | 170 | 0.72 | 34 | 22 | 2.2 | 14 | <u></u> |
| 1/29/96 | 45,c | 150 | 0.54 | 32 | 21 | 1.9 | 12 | |
| 10/26/95 | 33 | 130 | 0.69 | 37 | 21 | 0.21 | 11 | |
| 7/28/95 | 1.9,b | 86 | 4 | 1.4 | 2.3 | 0.62 | 3.2 | |
| 5/2/95 | 9.7,b | 170 | | 43 | 30 | 2.5 | 14 | |
| 2/24/95 | 9.2 | 130 | | 31 | 19 | 1.8 | 10 | |
| 11/18/94 | 23 | 140 | | 38 | 22 | 2.0 | 11 | |
| 7/22/94 | 5.3 | 170 | | 35 | 20 | 1.8 | 10 | |
| 5/19/94 | 30 | 150 | | 38 | 25 | 2.4 | 14 | <u></u> |
| 2/28/94 | 210 | 110 | | 36 | 21 | 1.9 | 11 | |
| 11/24/93 | 24 | 160 | | 48 | 26 | 2.2 | 12 | |
| 7/30/93 | 32 | 130 | | 36 | 21 | 1.9 | 8.2 | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

- = Not Analyzed.

b = TPH-D results consist of both diesel-range and gasoline-range compounds.

c = TPH-D results consist of gasoline-range compounds.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW3 (Continued)

| Date | TPH-D | TPH-G | MTBE | Benzene | Toluene | Ethyl- benzene | Total Xylenes 12 | Other Fuel Additives by 8260* |
|-----------|-------|-------|-------------|---------|---------|-------------------|------------------|-------------------------------------|
| 5/18/93 | 7.2 | 130 | | 36 | 21 | 2.1 | | |
| 2/23/93 | 8.1 | 110 | | 31 | 18 | 1.9 | 11 | |
| 11/13/92 | 4.7 | 140 | | 38 | 24 | 2.0 | 12 | |
| 5/27/92 | 27 | 370 | | 91 | 57 | 3.0 | 21 | |
| 7/14/92 | 270 | 130 | | 76 | 30 | 3.4 | 21 | |
| 12/23/91 | 540 | 740 | | 30 | 61 | 31 | 180 | |
| 11/25/91 | 74 | 150 | | 65 | 31 | 3.4 | 18 | |
| 10/10/91 | 39 | 140 | | 57 | 31 | 2,2 | 14 | |
| 9/17/91 | 140 | 180 | | 47 | 25 | 2.6 | 15 | |
| 8/19/91 | 150 | 170 | | 82 | 31 | 4.4 | 22 | |
| 7/20/91 | 270 | 450 | | 46 | 29 | 3.5 | 21 | |
| 6/20/91 | 210 | 920 | | 39 | 49 | 13 | 69 | |
| 5/17/91 | 70 | 170 | | 32 | 22 | 2.2 | 18 | |
| 4/15/91 | | 110 | | 31 | 15 | 0.88 | 7.4 | |
| 3/21/91 | | 87 | | 30 | 14 | 0.69 | 5.4 | |
| 2/15/91 | | 230 | | 44 | 40 | ND | 31 | - |
| 1/14/91 | | 160 | | 48 | 25 | 1.0 | 16 | |
| 9/27/90 | | 25 | | 7.2 | 6.4 | 0.42 | 3.4 | |
| 8/23/90 | | 220 | | 67 | 46 | 27 | 18 | |
| 7/20/90 | 86 | | | 9.1 | 14 | 0.94 | 13 | _ |
| 3/19/90 | | 210 | | 38 | 28 | 1.8 | 12 | |
| 2/20/90** | | 46 | | 20 | 15 | 1.8 | 9.7 | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

-- = Not Analyzed.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

** Inorganic lead not detected in sample.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW4

| | | | | | | | | Other Fuel | | | | |
|----------|---------------|---|----------------|---------------|--------------|--------------|----------------|------------|--|--|--|--|
| | | | | | | Ethyl- | Total | Additives | | | | |
| Date | TPH-D | TPH-G | MTBE | Benzene | Toluene | benzene | Xylenes | by 8260* | | | | |
| 2/11/04 | Free P | roduct san | pled. Laborate | | | | nbling diesel, | with less | | | | |
| 12/18/03 | | significant gasoline-range pattern. Not Sampled (Free Product Present in Well) | | | | | | | | | | |
| 9/18/03 | | Not Sampled (Free Product Present in Well) | | | | | | | | | | |
| | | | | | | | | | | | | |
| 6/26/03 | | | Not Sar | npled (Free I | Product Pres | ent in Well) | | | | | | |
| 3/18/03 | | | Not Sar | npled (Free I | Product Pres | ent in Well) | | | | | | |
| 12/21/02 | | | Not Sar | npled (Free I | Product Pres | ent in Well) | | | | | | |
| 9/10/02 | | | Not Sar | npled (Free I | roduct Pres | ent in Well) | | | | | | |
| 3/30/02 | | | Not Sar | npled (Free I | Product Pres | ent in Well) | | | | | | |
| 12/22/01 | _ | | Not Sar | npled (Free I | Product Pres | ent in Well) | | • | | | | |
| 9/23/01 | | ·• | Not Sar | npled (Free I | Product Pres | ent in Well) | · · · · · · | | | | | |
| 6/22/01 | 440,a,b | 140 | 15 | 35 | 19 | 2.0 | 10 | | | | | |
| 4/22/01 | | | Not Sar | npled (Free I | Product Pres | ent in Well) | | | | | | |
| 12/14/00 | | | Not Sar | npled (Free I | Product Pres | ent in Well) | | | | | | |
| 9/18/00 | | | Not Sar | npled (Free I | Product Pres | ent in Well) | | | | | | |
| 6/8/00 | | | Not Sar | npled (Free I | Product Pres | ent in Well) | | | | | | |
| 3/9/00 | 2,100,a,b | 130 | 6.9 | 35 | 13 | 2.1 | 11 | | | | | |
| 12/9/99 | 9,000,a,b | 120 | 8.1 | 33 | 6 | 2.4 | 12 | | | | | |
| 8/31/99 | 9.4,b | 190 | 4,4 | 46 | 30 | 2.8 | 15 | | | | | |
| 4/29/99 | 9.4,b | 210 | 3.2 | 42 | 35 | 2.8 | 15 | | | | | |
| 1/29/99 | 7.3, b | 190 | 2.4 | 44 | 40 | 3.1 | 17 | | | | | |
| 4/26/98 | 13,b | 190 | ND | 49 | 37 | 3.2 | 18 | | | | | |

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

-= Not Analyzed.

a = Lighter than water immiscible sheen present on the sample.

b = TPH-D results consist of both diesel-range and gasoline-range compounds.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME,

ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well MW4 (Continued)

| Date | TPH-D | трн-с | МТВЕ | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260* | |
|---------|---------------|-------|------|---------|---------|-------------------|------------------|-------------------------------------|--|
| 1/24/98 | 20,b | 200 | ND | 50 | 40 | 3,1 | 17 | | |
| 11/6/97 | 110,b | 160 | ND | 48 | 30 | 2.8 | 16 | | |
| 8/26/97 | 5.5,b | 210 | 1.7 | 48 | 42 | 3.4 | 19 | | |
| 8/15/97 | MW4 Installed | | | | | | | | |

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

- = Not Analyzed.

b = TPH-D results consist of both diesel-range and gasoline-range compounds.

* = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME,

ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well EW1

| <u>Date</u> 4/6/04 | TPH-D 3.4,a,b | TPH-G 2.6,a | MTBE 72 | Benzene ND<1 | Toluene ND<1 | Ethyl- benzene ND<1 | Total Xylenes ND<1 | Other Fuel Additives by 8260* ND<1, except TBA = 34 | | |
|-----------------------|------------------|----------------|---------|-----------------|-----------------|---------------------------|--------------------------|---|--|--|
| 12/18/03 | 3.0,b | ND<5.0,e | 160 | 0.22 | ND<50 | ND<50 | 0.073 | ND<5, except TBA = 64 | | |
| 9/18/03 | 8.2,a,b | 7.5 | 220 | 0.33 | ND<0.05 | ND<0.05 | ND<0.05 | ND<2.5, except TBA = 51 | | |
| 2/23/93 | 9.6 | 66 | | 14 | 8.5 | 1.4 | 9.8 | | | |
| 11/13/92 | 13 | 62 | | 11 | 9.2 | 1.1 | 9.6 | | | |
| 8/92 | EW1 Installed | | | | | | | | | |

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

- = Not Analyzed.
- a = Lighter than water immiscible sheen present on the sample.
- b = TPH-D results consist of both diesel-range and gasoline-range compounds.
- e = reporting limit raised due to high MTBE content
- * = This column summarizes results for analysis using EPA Method 8260 for non-MTBE fuel oxygenates (TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well OW1

| Date | TPH-D | ТРН-G | ТРН-МО | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260, incl. MTBE** | |
|----------|---------------|-------|--------|---------|---------|-------------------|------------------|---|--|
| 4/6/04 | 74,a,b | 50,a | | 3.1 | ND<0.1 | 0.21 | 0.14 | ND<0.1, TBA ND<1 | |
| 2/11/04 | 450,a,b | 15,a | 130 | 2.2 | 0.031 | 0.16 | 0.054 | ND<0.025, TBA ND<0.25 | |
| 11/21/03 | 1,900,a,b | 38,e | 570 | 2.0 | 0.059 | 0.19 | 0.095 | ND<0.05, TBA ND<0.5 | |
| 6/10/98 | OW1 Installed | | | | | | | | |

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

-= Not Analyzed.

a = Laboratory analytical report note: lighter than water immiscible sheen present on the sample.

b = Laboratory analytical report note: TPH-D results consist of both diesel-range and gasoline-range compounds.

e = Laboratory analytical report note: unmodified or weakly modified gasoline is significant.

** = This column summarizes results for analysis using EPA Method 8260 for fuel oxygenates (MTBE, TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS Well OW2

| Date | TPH-D | TPH-G | ТРН-МО | Benzene | Toluene | Ethyl- benzene | Total Xylenes | Other Fuel Additives by 8260, incl. MTBE** |
|----------|----------------------|---------|--------|----------|----------|-------------------|------------------|---|
| 4/6/04 | | 0.069,a | | ND | ND | ND | ND | |
| | | | | <0.00062 | <0.00062 | < 0.00062 | <0.00062 | |
| 2/11/04 | | 0.21 | | ND | ND | ND | ND | ND<0.0005, |
| | | | | <0.0005 | < 0.0005 | <0.0005 | <0.0005 | except |
| | | | | | | | | MTBE = |
| | | | | | | | | 0.0064*** |
| | | | | | | | | TBA = |
| | | | | | | | | 0.0070 |
| 11/21/03 | No sample recovered. | | | | | | | |
| 6/10/98 | OW2 Installed | | | | | | | |

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert-Butyl Ether.

ND = Not Detected.

-- = Not Analyzed.

a = Laboratory analytical report note: lighter than water immiscible sheen present on the sample.

** = This column summarizes results for analysis using EPA Method 8260 for fuel oxygenates (MTBE, TAME, ETBE, and TBA) and lead scavengers (EDB, 1,2-DCA/EDC).

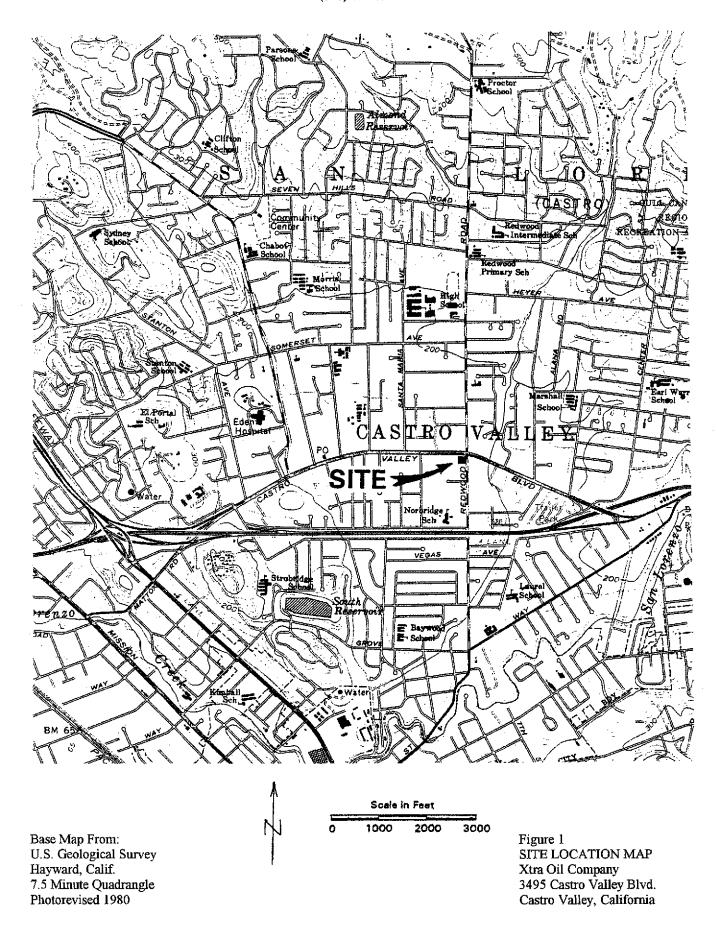
*** = MTBE was detected at a concentration of 0.0059 mg/L by EPA Method 5030/8021/8015 modified.

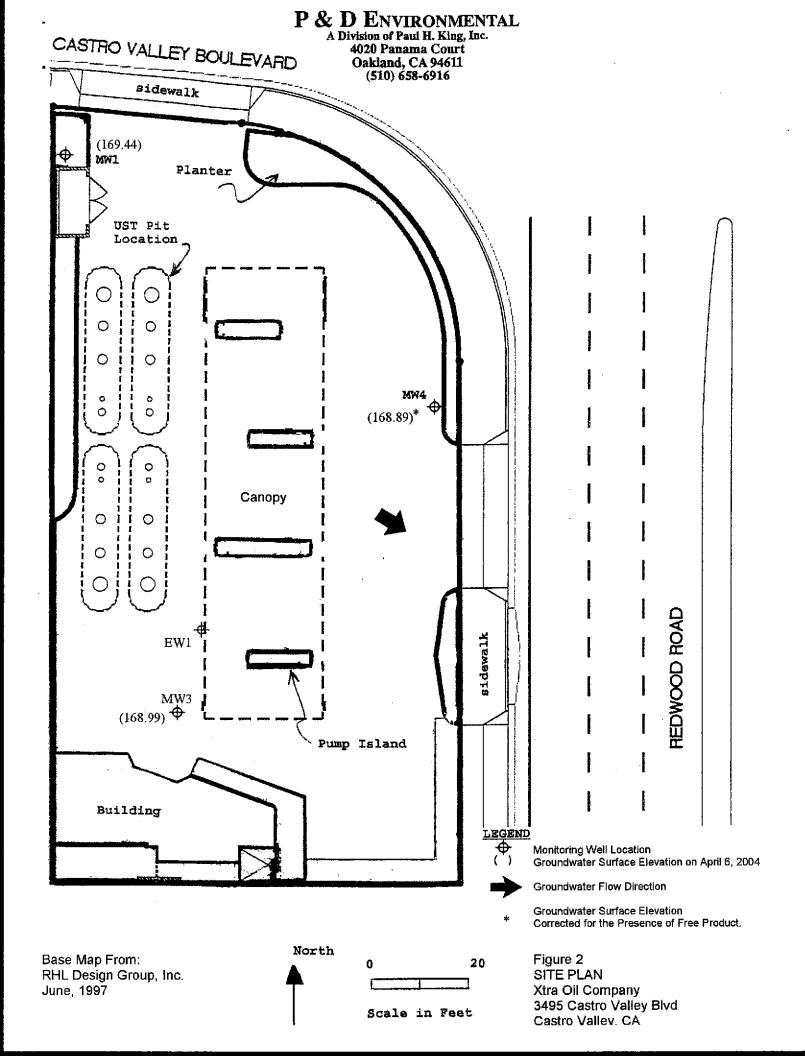
4/19/05 0014.1257 Please print report dated 4/15/04.

on 18 page vas.
Pelse chech Frage numbering for test 2 tables.

P & D ENVIRONMENTAL

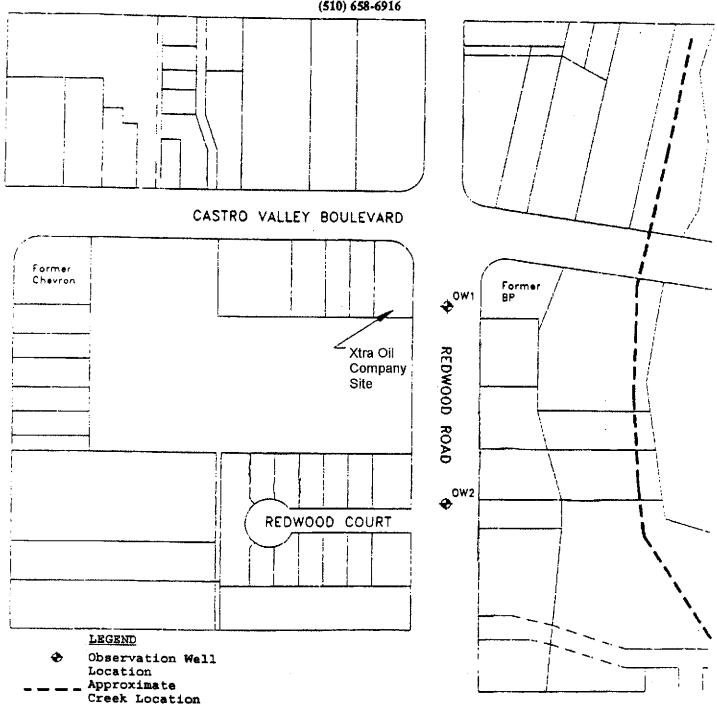
A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916





P & D ENVIRONMENTAL A Division of Paul H. King, Inc.

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916



Base Map From: Castro Valley Sanitation District Undated

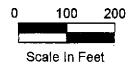




Figure 3 SITE VICINITY MAP Xtra Oil Company 3495 Castro Valley Blvd. Castro Valley, CA

restally to mean mean

| Site Name | Xtra Oil | - Castro V | allen | Well No | OWI |
|------------|--|-------------|--------|------------------------|-------------------------|
| Job No | 0014 | | | Date 2/ | 11/04 |
| | er (ft.) | 100 T | 201 | Sheen | |
| Well Depth | (ft.) 594" | =7,44 | | Free Produ | ct Thickness NA |
| | eter | | | Sample Col | lection Method |
| Gal./Casir | ıg Vol | | | | |
| TIME | GAL. PURGED | <u> Hq</u> | TEMPER | ATURE | ELECTRICAL CONDUCTIVITY |
| NOTES: | total doorh) ler hickness) Nater in (5" of hickness) | christe | box a | ature Thore amediale | |
| PUKGETU.92 | Sampling | (12 | :10 pm |) _ | ~ |

| | Site Name | Xtra Oil-(a | stro Valley | well No. Dw2 | |
|-------|---------------------------------------|-------------------|--|-----------------------|-----------------|
| | Job No | | | Date 2/11/04 | |
| | | er (ft.) | 7.19 | Sheen | |
| | Well Depth | (ft.) <u>48"</u> | | Free Product Thicknes | s TENA |
| | Well Diame | | | Sample Collection Met | |
| | Gal./Casing | g Vol. <u>V</u> A | | Vacuum primp | w Tellon |
| | ТТМ Б | | | ELECTRICA | I tubina |
| | TIME | GAL PURGED | 1 1 | ERATURE CONDUCTIV | ITY_ |
| | | | ft T.O. | <u> </u> | |
| } | | | | | |
| | , | | | | |
| | | 0011 | | | |
| | 1 // | 80 | | | |
| _ | 133 (- | total | | | |
| 7,19' |) | septh) | | | |
| 7511 | | | | | |
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| | | | | 0.14 | <u> </u> |
| | | | 7/7//15 | E bylan of 1 | 1100 |
| | | VA TOOLOG | V TILL / JULY | potom of | 22-11 |
| | | | | | |
| | | | | | |
| | | - bod. + | L | (whu, 3/17/04) | |
| | NOTES: K) | o water | wode | + | |
| | Character | | enly troa | uc) in well. | |
| | PURGE10.92 | murea maga | pastes and | Steel tape | |
| | | Water in | Christie b | ex below to |), & |
| | wat | er sample | d 11:40 cem, | | |
| | No | fer level 1 | a 11711 | 11.116 | |
| | C/fa | hoth -C | in 1位, | 11.40 an | |
| | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1 NVIPE OF WE | ハノ・・・・ノ・ | | |

| | site Name <u>Xtra Oil - Castro</u> Valley | Well No. MWY |
|------------------|---|--|
| | Job No. (2014) | Data 7 /11 //74 |
| | TOC to Water (ft.) $(0'6''-1'73''-9.43')$ | *\ |
| | Well Depth (ft.) | Sheen $\frac{NH}{NH}$ Free Product Thickness $\frac{2'8}{6}$ $\frac{5}{6}$ $\frac{2.7}{2.6}$ |
| | Well Diameter Zin. | Sample Collection Method |
| | Gal./Casing Vol | Vacuum pump a Teflon |
| | TIME GAL. PURGED DH TEMPE | ELECTRICAL Tobled CONDUCTIVITY |
| | T To |).C |
| - 1 | | |
| ((| | |
| 0 ^b . | tape tength) | |
| (-tosta) | fall - | / |
| (h) | | |
| <i>*</i> | | / |
| 10:50 | | |
| | | 10,50 |
| | | 9.43 |
| | | |
| | 311 | |
| | 7 96 / / / ROW | WC1 Soft 2.70 |
| | | |
| | 3,17) / //// | |
| | | |
| \ | 12"1 | Ev - (bollow of steel tage) |
| - | 18_1_ | |
| | NOTES: Steel take water and | d-11 - f.d. |
| | pastes used | gasolhe - thing |
| | PURGE10.92 Water in Christic b | lox above T.O.C. |
| | way in Christic | |

FP Correction 2.70 x 0.75 = 2.03 Corrected Depth to water = 9.43-2.03 = 7.40

| Site Name Atra Oil Castro Valley | Well No. Ow |
|---|--------------------------|
| | Date 4/6/04 |
| TOC TO Mator /ft | Sheen |
| $QQ \perp V = 7.44$ | Free Product Thickness_ |
| | Sample Collection Method |
| Gal./Casing Vol | Vac was Pump |
| TIME GAL, PURGED OH TEMPER | ELECTRICAL CONDUCTIVITY |
| 7,0.6. 891 | |
| - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 7,44 |
| Top of water 1 5 5 5 13" | |
| Bottom 6 " = 8.43 | |
| | ibore T.o.C. |
| PURGE10.92 Sura | Sheen on sample |

| Site Name Xtra Oil - Cachel | alley well no. Owz |
|--|---|
| Job No. 0014 | Date_ 4/6/04 |
| TOC to Water (ft.) | Sheen |
| Well Depth (ft.) 8 % " | Free Product Thickness |
| Well Depth (ft.) 8 % " Well Diameter 1000 | Sample Collection Method |
| Gal./Casing Vol | |
| TIME GAL. PURGED DH | ELECTRICAL TEMPERATURE CONDUCTIVITY |
| - Fro.C. 98" | - m |
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| To the second of | |
| TOP of water 3/4" | 30.06 |
| Bettern of well 5 | |
| | |
| | |
| NOTES: Water in Christie | box at T.O.C. |
| water in christie | box at 1.0.C. |

| Site Name | Xtra Oil | -Castro Valler | Well No. | MWI |
|-------------|--------------|----------------------|-------------------|------------------|
| Job No | 10014 | |) Date | 4/6/04 |
| TOC to Wat | er (ft.) 7.0 | 13_ | Sheen | None |
| Well Depth | (ft.) 20 | | Free Prod | luct Thickness 🧭 |
| Well Diame | ter Hin | <u> </u> | | ollection Method |
| Gal./Casin | g Vol. 7. | | | eflon bailer |
| TIME | Ezzz34 | 1 | oF | ELECTRICAL MS |
| 2:08 | GAL. PURGED | , S.40 m | TEMPERATURE 73, Z | CONDUCTIVITY CON |
| 2:10 | 5 | <u>-2.10</u> 3.09 | 70,2 | 10,04 |
| 2:11 | 10- | Woll a | and do | 10.04 |
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| LOGING. | | | | |
| NOTES: | Strong 1 | PHC odor, | but no s | sheen |
| | | m dural | water. | |
| PURGE10.92 | | 1 - 0 | 4 | · |

| Site Name _ | Xtra Oil | - Castro Valley | Well No. | MW3 |
|---------------|--------------|---------------------------------------|--------------|---|
| Job No | _ | i i | Date 4 | 16/04 |
| TOC to Wate | r (ft.) 7.41 | · . | Sheen | None |
| Well Depth | (ft.) 18.7 | · · · · · · · · · · · · · · · · · · · | Free Produc | ct Thickness 👲 |
| Well Diamet | er <u> </u> | | | lection Method |
| Gal./Casing | vol. 6,2 | | Telle | on bailer |
| TIME | £=18.6 | | (oF) | ELECTRICAL MS/Cas |
| 2.45 | GAL. PURGED | ы <u>т</u> 307 | EMPERATURE 1 | CONDUCTIVITY CON |
| 2 -,49 | 5 | 305 | 690 | 11.50 |
| 2.52 | 8 | 3.11 | 64.7 | () |
| 2.58 | 12 | 3,00 | 69.0 | 11,28 |
| 2:00 | 45 | funted | dn. | |
| 3:05 | -19 | | na thind | |
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| NOTES: | rHC | olor + | Theen on | Inrae water. |
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| V.I and I continue | ATA SHEET | | | |
|---|------------------|--------------|-------------------------|-------------|
| Site Name / Tra Oil - (astro) | Palley | Well No | mwy | |
| JOB NO | | Date4/(| 6/04 | |
| TOC to Water (ft.) | | Sheen | | |
| Well Depth (ft.) | | Free Product | Thickness 2/ | 10" |
| Well Diameter Zin | | | ection Method | |
| Gal./Casing Vol | | Tette | n bailer | |
| TIME GAL, PURGED TO C. 10 611 Top of 319 11 Potom of 111 Potom of 111 | TEMPER 10,50° | ATURE | ELECTRICAL CONDUCTIVITY | 9.58 |
| OTES: Jepths measured w | steel | tape o | and | |
| water + product f |) ' | | | |
| FP Correction | | | | |
| Corrected dep | the to wat | -er = 9. | 1= 31,5-87 | 1.46 |

| DATA SI | HEET |
|---|------------------------------|
| Sice Name Ktra Oll-Castro Valler | Well No. Ewl |
| JOB NO. 0014 | Date 4/6/04 |
| TOC to Water (ft.) <u>6.63</u> | Sheen NONE |
| Well Depth (ft.) 13.2 | Free Product Thickness |
| Well Diameter Sia. | Sample Collection Method |
| Gal./Casing Vol. 17.1 | _Teflon bailer |
| €=51 | (OF) ELECTRICAL (MS/C) |
| TIME GAL PURGED DH | TEMPERATURE CONDUCTIVITY Chi |
| $\frac{1128}{1120} = \frac{5}{5}$ | - G+1+ - 5174 |
| $\frac{1}{1}\frac{32}{32}$ $\frac{1}{25}$ $\frac{3}{6}\frac{3}{23}$ | -5.5 |
| $\frac{1.32}{35}$ $\frac{5.25}{531}$ | 5.73 |
| 1.76 45 5.33 | -b*() -5.36 |
| 11.37 57 | - Disb |
| 1186 6 3 | 041 5.36 |
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| NOTES: NO OIL COM | |
| Nofth Sheen but | Tslight odor |
| - on purge water | r. Theen on Sample. |
| PURGE10.92 | V |



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccamobell.com E-mail: main@mccarmobell.com

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|--|--|---|---------------------|---------------------------------------|----------|-----------|---------|
| P & D Environmental 4020 Panama Court | | Client Project ID: #0014; Xtra Oil-Castro | | Date Sampled: | 02/11/04 | | - |
| | | Valley | | Date Received: | 02/12/04 | | |
| Oakland, CA | 94611-4931 | Client Contact | : Paul King | Date Extracted: | 02/20/04 | | |
| Client P.O.: | | | | Date Analyzed: | 02/20/04 | | |
| Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline* | | | | | | | |
| | | | | | | rk Order: | 0402178 |
| Lab ID | Client ID | Matrix | TPH(g) | | | DF | % SS |
| A100 | OW1 | w | 15,000,a,h | · · · · · · · · · · · · · · · · · · · | | 10 | 119 |
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| | | | | | | | |
| Reporting | Limit for DF =1; | w | 50 | | | μg | /L |
| | s not detected at or ne reporting limit | S | NA | | | N | |

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/soild samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

| | | | | | | | | | |
|--|---------------|------------------|-----------------------------|--------------|--------------------------|----------------------------------|---|--|--|
| P & D Environ | nmental | | | | ite Sampled: | 02/11/04 | · - · · · · · · · · · · · · · · · · · · | | |
| 4020 Panama Court Oakland, CA 94611-4931 | | Valley | Valley | | | Date Received: 02/12/04 | | | |
| | | Client Co | ntact: Paul King | Da | Date Extracted: 02/12/04 | | | | |
| | | Client P.C | Client P.O.: | | | Date Analyzed: 02/12/04-02/13/04 | | | |
| | | 23) and Oil (C18 | 3+) Range Extractable Hydre | carbons as D | iesel and Motor | r Oil* | | | |
| Extraction method: S | SW3510C | | Analytical methods: SW8015C | | | Work Or | der: 0402178 | | |
| Lab ID | Client ID | Matrix | TPH(d) | Т | PH(mo) | DF | % SS | | |
| 0402178-001A | OWI | w | 450,000,a,d,h | 1 | 30,000 | 100 | # | | |
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| Reporting Limit for DF =1; ND means not detected at or | W | 50 | 250 | μg/L |
|--|---|----|-----|-------|
| above the reporting limit | S | NA | NA | mg/Kg |
| | | | | |

^{*} water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant;; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.



[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

| Z. Year | |
|---------|--|

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| P & D Environmental | Website: www | v.mccampbell.com E-mail: main@mccampbell.com |
|---------------------|---|--|
| 4020 Panama Court | Client Project ID: #0014; Xtra Oil-Castro Valley | Date Sampled: 02/11/04 |
| | Client Co. | Date Received: 02/12/04 |
| _ | Client Contact: Paul King | Date Extracted: 02/14/04 |
| Gasoline Range (| Client P.O.: | Date Analyzed: 02/14/04 |

| Lab ID | Client ID | Matrix | TPH(g) | | | | 15Cm | ith BTEX and | Want | . . | |
|---|-----------|--------------|----------|----------|--------------|--------------|---------|--------------|---------|---------------|----|
| 002A | OWA | ╼┞╼╼╌┼╸ | 11 11(g) | MTBE | Benze | ene | Toluene | Ethylbenzene | Xylenes | Order: 0 | _ |
| ODER | OW2 | W | 210,ь | 5.9 | ND | | ND | | | DF | 9 |
| | | | | | | | | ND | ND | 1 | |
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| orting Limit for D |)F = 1: | | | | | | | | | +- | _ |
| neans not detecte tive the reporting | dator | | 50 | 5.0 | 0.5 | 0.5 | | 0.5 | | | _ |
| and trans- | | S | IA | NA | NA | NA NA | / | 0.5 | 0.5 | μg/ | T. |

| | ND means not detected at or | W | 50 | 5.0 | 0.0 | | | <u></u> | | 1 | |
|----|--|-----------|-----------------|--------------------|-------------------|-----------|------|---------|-----|-------|--|
| | above the reporting limit | S | NA | | 0.5 | 0.5 | 0.5 | 0.5 | | | |
| | * Water and | | TIA | NA | NA | NA | 774 | | | μg/L | |
| | * water and vapor samples and product/oil/non-aqueous liquid | d all TCL | P & SPLP extrac | ts are reported in | | | , NA | NA | I n | ng/Kg | |
| -1 | A TELEVISION APPROVED IT IT | d sample: | in ma/l | i-boited III | ug/L, soil/sludge | /enlid no | | | ļ | - 9 | |

water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.



[#] cluttered chromatogram; sample peak coelutes with surrogate peak.



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| | | <u> </u> | | | | | | |
|-------------------------------|-----------------|---|---|--|----------|--------------------------|--|--|
| P & D Environmental | | Client Project ID: #0014; Xtra Oil-Castro Date Sampled: | | | | | | |
| 4020 Panama Court | Valley | | | Date Received: 0 | 2/12/04 | | | |
| 0.11 1.04.04(11.4004 | Client Contact: | Paul King | | Date Extracted: 02/13/04 | | | | |
| Oakland, CA 94611-4931 | Client P.O.: | | - | Date Analyzed: (| 2/13/04 | | | |
| | | ates and BTEX b | y GC/MS* | | | | | |
| Extraction Method: SW5030B | | alytical Method: SW8260 | B | | Work Ord | er: 0402178 | | |
| Lab ID | 0402178-001B | 0402178-002B | | | | | | |
| Client ID | OW1 | OW2 | | | | Reporting Limit for DF=1 | | |
| Matrix | W | W | | | | • | | |
| DF | 50 | 1 | top at attached to the second | TANDALAH MARANE AMAMA MARANE M | S | w | | |
| Compound | | Conce | entration | | ug/kg | μg/L | | |
| tert-Amyl methyl ether (TAME) | ND<25 | ND | | | NA | 0.5 | | |
| Benzene | 2200 | ND | | | NA | 0.5 | | |
| t-Butyl alcohol (TBA) | ND<250 | 7.0 | | | NA | 5.0 | | |
| 1,2-Dibromoethane (EDB) | ND<25 | ND | | | NA | 0.5 | | |
| 1,2-Dichloroethane (1,2-DCA) | ND<25 | ND | | | NA | 0.5 | | |
| Diisopropyl ether (DIPE) | ND<25 | ND | | | NA | 0.5 | | |
| Ethylbenzene | 160 | , ND | | | NA | 0.5 | | |
| Ethyl tert-butyl ether (ETBE) | ND<25 | ND | | | NA | 0.5 | | |
| Methyl-t-butyl ether (MTBE) | ND<25 | 6.4 | | | NA | 0.5 | | |
| Toluene | 31 | ND | | | NA | 0.5 | | |
| Xylenes | 54 | ND | | | NA | 0.5 | | |
| | Surre | ogate Recoveries | (%) | | | | | |
| %SS1: | 105 | 111 | | | | | | |
| %SS2: | 96.4 | 95.4 | | | | , | | |
| %SS3: | 113 | 115 | | | | | | |
| Comments | h | | | | | | | |

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or surrogate coelutes with another peak.



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| P & D Environmental | , | Date Sampled: 02/11/04 | | | | |
|------------------------|---------------------------|--------------------------|--|--|--|--|
| 4020 Panama Court | Valley | Date Received: 02/12/04 | | | | |
| 0.111.04.04611.4021 | Client Contact: Paul King | Date Extracted: 02/12/04 | | | | |
| Oakland, CA 94611-4931 | Client P.O.: | Date Analyzed: 02/13/04 | | | | |

Fuel FingerPrint *

| Extraction method: SW3550C | | | Analytical methods: SW8015C | Work Order: 040217 | | |
|----------------------------|-----------|--------|---|---|--|--|
| Lab ID | Client ID | Matrix | Fuel Fingerprint | | | |
| | | | This sample shows a significant hydrocarbon pattern b diesel. It also contains a less significant gas range p | tern between C10 and C23 that resembles ange pattern. Chromatograms enclosed. | | |
| 0402178-003A | MW4 | 0 | | | | |
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Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\GC11\DATAB\02130411.D
Acq On : 13 Feb 2004 3:59 pm

Vial: 56 Operator: Thu : 0402178-003A O Inst ; GC-11 : TPH(D)_OIL Multiplr: 1.0

Misc IntFile : EVENTS.E

Sample

Quant Time: Feb 13 17:05 2004 Quant Results File: GC11BR.RES

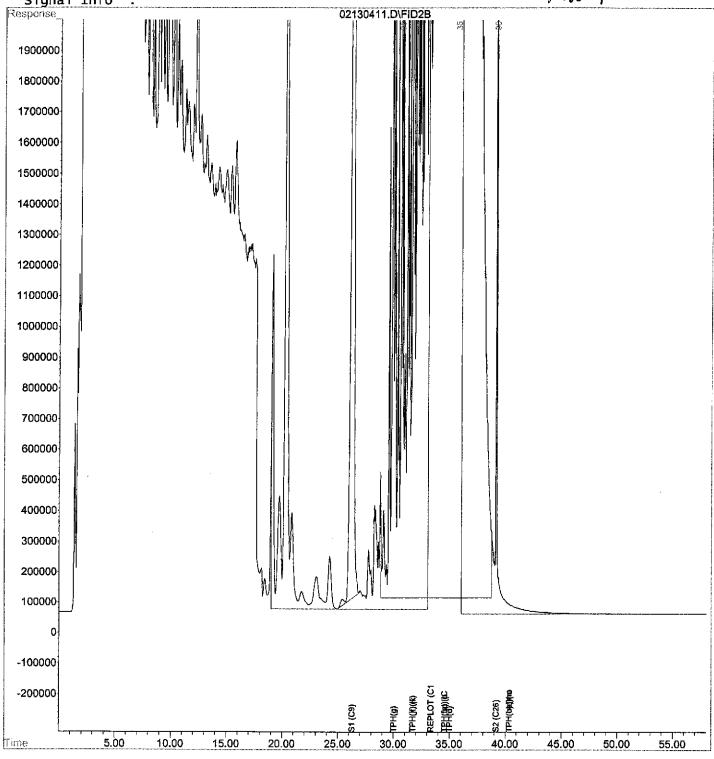
Quant Method : D:\HPCHEM\GC11\METHODS\GC11BR.M (Chemstation Integrator)

Title : GC-11A

Last Update : Mon Dec 29 15:56:55 2003 Response via: Multiple Level Calibration

DataAcq Meth : GC11AR.M





D:\HPCHEM\GC11\DATAB\02130411.D

| Instrument Name | GC-11 | DETECTOR B | | |
|------------------|----------------|-------------------|-----------------------|--------|
| Data File Name | 02130411.D | Sample Name | 0402178-003A O | |
| Date Acquired | 2/13/2004 3:59 | Data File Path | D:\HPCHEM\GC11\DATAB\ | |
| Acq. Method File | GC11AR.M | Misc Info | TPH(D)_OIL | C |
| Vial Number | 56 | Sample Multiplier | 1 | "MW-4" |

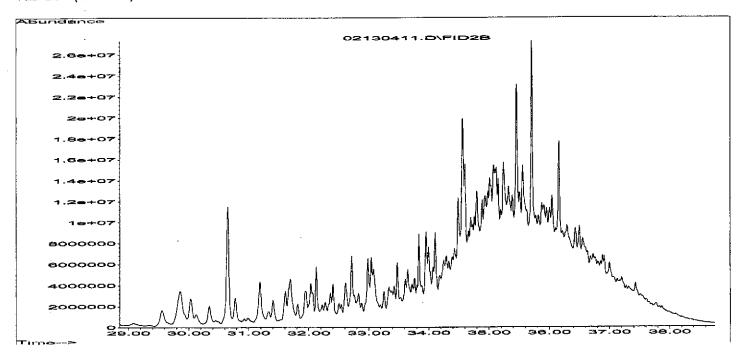
NOTE: THE MULTIPLIER IS THE DILUTION FACTOR ONLY, NOT WITH THE EXTRACTION FACTOR

NOTE: S1 & S2 % recoveries are based on dilution without SS

NOTE: TPH(d,bo) and TPH(mo) values are based on diesel & motor oil calibrations, TPH(bo) and TPH(mo) use the same RL

NOTE: Ignore TPH(g) & TPH(k) values from Chem Station; after that they are based on the diesel RF & area

| | | | | Amount Using D & | | |
|----------------|---|------------|-------------|---------------------|-------------|--------------|
| Name | Ret Time | CS (mg/Ls) | Area | MO RFs only (mg/Ls) | Soil mg/kg) | Water (ug/L) |
| S1 (C9) | 26.27 | 104.5 | 749470090 | 104.5 | 105% | 105% |
| S2 (C26) | 39.16 | 115.9 | 648343664 | 115.9 | 116% | 116% |
| TPH(d) | C10-C23 | 657.5 | 23730730519 | 657.5 | 328.7 | 16437 |
| TPH(mo) | C18+ | 178.5 | 6622728368 | 178.5 | 89.3 | 4463 |
| TPH(k)(K) | C10-C18 | 741.4 | 18886484833 | 523.3 | 261.6 | 13081 |
| TPH(g) | <c12< td=""><td>1609.6</td><td>5037212674</td><td>139.6</td><td>69.8</td><td>3489</td></c12<> | 1609.6 | 5037212674 | 139.6 | 69.8 | 3489 |
| TPH(bo) (C10+) | C10+ | 682.4 | 24763498928 | 682.4 | 341.2 | 17061 |
| REPLOT (C10-C2 | 5) | | | | | |



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0402178

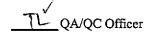
| EPA Method: SW802 | 21B/8015Cm E | Extraction: | on: SW5030B BatchID: 10358 Spik | | | | piked Sampi | ked Sample ID: 0402177-027A | | |
|------------------------|--------------|-------------|---------------------------------|--------|---------|--------|-------------|-----------------------------|------------|--------------|
| | Sample | Spiked | MS* | MSD* | MS-MSD* | LCS | LCSD | LCS-LCSD | Acceptance | Criteria (%) |
| | µg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | Low | High |
| TPH(btex) [£] | ND | 60 | 105 | 102 | 3.37 | 106 | 104 | 2.07 | 70 | 130 |
| МТВЕ | ND | 10 | 96.4 | 94.7 | 1.81 | 102 | 99.9 | 1.83 | 70 | 130 |
| Benzene | ND | 10 | 110 | 110 | 0 | 106 | 103 | 2.99 | 70 | 130 |
| Toluene | ND | 10 | 106 | 106 | 0 | 102 | 97.6 | 4.49 | 70 | 130 |
| Ethylbenzene | ND | 10 | 110 | 112 | 1.39 | 108 | 105 | 2.28 | 70 | 130 |
| Xylenes | ND | 30 | 100 | 100 | 0 | 100 | 96.3 | 3.74 | 70 | 130 |
| %SS: | 106 | 10 | 103 | 104 | 1.37 | 105 | 99.7 | 5.29 | 70 | 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% If: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

QC SUMMARY REPORT FOR SW8015C

Matrix: O

WorkOrder: 0402178

| EPA Method: SW8015C | SW35500 | 3 | BatchID: 10354 Spiked Sample ID: 040217 | | | | | 75-002A | | |
|---------------------|---------|--------|---|--------|---------|--------|--------|----------|------------|--------------|
| | Sample | Spiked | MS* | MSD* | MS-MSD* | LCS | LCSD | LCS-LCSD | Acceptance | Criteria (%) |
| | mg/L | mg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | Low | High |
| TPH(d) | N/A | 150 | N/A | N/A | N/A | 93.6 | 95.4 | 1.90 | 70 | 130 |
| %SS: | N/A | 50 | N/A | N/A | N/A | 93.7 | 95 | 1.42 | 70 | 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

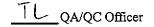
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% If: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0402178

| EPA Method: SW8015C Extraction: SW3510C | | | BatchID: 10360 | | | Spiked Sample ID: N/A | | | | |
|---|--------|--------|----------------|--------|---------|-----------------------|--------|----------|------------|--------------|
| | Sample | Spiked | MS* | MSD* | MS-MSD* | LCS | LCSD | LCS-LCSD | Acceptance | Criteria (%) |
| | µg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | Low | High |
| TPH(d) | N/A | 7500 | N/A | N/A | N/A | 94.9 | 97.1 | 2.27 | 70 | 130 |
| %SS: | N/A | 2500 | N/A | N/A | N/A | 90.4 | 92 | 1.70 | 70 | 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soll matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

TV QA/QC Officer

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0402178

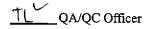
| EPA Method: SW8260B | E | Extraction: | SW5030E | 3 | BatchID: | 10361 | S | piked Sampl | e ID: 04021 | 186-001A |
|-------------------------------|--------|-------------|---------|--------|----------|--------|--------|-------------|-------------|--------------|
| | Sample | Spiked | MS* | MSD* | MS-MSD* | LCS | LCSD | LCS-LCSD | Acceptance | Criteria (%) |
| | µg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | Low | High |
| tert-Amyl methyl ether (TAME) | ND | 10 | 120 | 112 | 7.28 | 103 | 105 | 2.40 | 70 | 130 |
| Benzene | ND | 10 | 127 | 120 | 5.70 | 119 | 122 | 1.81 | 70 | 130 |
| t-Butyl alcohol (TBA) | ND | 50 | 97.7 | 88.6 | 9.77 | 101 | 105 | 3.74 | 70 | 130 |
| Diisopropyl ether (DIPE) | ND | 10 | 121 | 116 | 4.13 | 99.8 | 102 | 2.18 | 70 | 130 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 119 | 112 | 5.89 | 99.4 | 102 | 2.79 | 70 | 130 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 117 | 109 | 7.28 | 100 | 102 | 2.28 | 70 | 130 |
| Toluene | ND | 10 | 116 | 106 | 8.74 | 91.8 | 93.3 | 1.68 | 70 | 130 |
| %SS1: | 104 | 10 | 109 | 107 | 1.86 | 100 | 99.9 | 0.536 | 70 | 130 |
| %SS2: | 95.8 | 10 | 106 | 103 | 2.44 | 98.2 | 98.3 | 0.0923 | 70 | 130 |
| %SS3: | 99.7 | 10 | 110 | 107 | 2.79 | 99.5 | 101 | 1.20 | 70 | 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Splke; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

N/A = not enough sample to perform matrix splke and matrix spike duplicate.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or enalyte content.



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0402178

Report to:

Paul King

P & D Environmental

4020 Panama Court Oakland, CA 94611-4931

TEL: (510) 658-6916

FAX:

510-834-0152 ProjectNo: #0014; Xtra Oil-Castro Valley

PO:

Bill to:

Requested TAT:

5 days

Accounts Payable

P & D Environmental 4020 Panama Court

Date Received:

2/12/04

Oakland, CA 94611-4931

Date Printed:

2/12/04

| Sample ID | ClientSampiD | Matrix | Callagette B. | | | | | | | Request | ed Test | s (See le | egend t | pelow) | | | | | |
|-------------|--------------|--------|-----------------|------|---|----|---|--------------|--|---------|----------|--|---------|--|-------|----------|--------------|----|----|
| | onontoumpio | mauix | Collection Date | Hold | 1 | 2_ | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 0402178-001 | OW1 | Water | 2/11/04 | | | A | В | Τ - | | Τ | | | | | 1 ~~~ | т— | , <u>.</u> . | | |
| 0402178-002 | OW2 | Water | 2/11/04 | | | A | В | | | | <u> </u> | | | | ļ | | | | |
| 0402178-003 | MW4 | Oil | 2/11/04 | | Α | | | <u> </u> | | | <u> </u> | | | | | <u> </u> | | | |

Test Legend:

| 1 | G-MBTEX_Oil |
|----|-------------|
| 6 | |
| 11 | |

| 2 | G-MBTEX_W |
|----|-----------|
| 7 | |
| 12 | |

| 3 | MBTEXOXY-8260B_W |
|----|------------------|
| 8 | |
| 13 | |

| 4 | |
|----|--|
| 9 | |
| 14 | |

| 5 | |
|----|--|
| 10 | |
| 15 | |

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.nccampbell.com B-mail; main@mccampbell.com

| Light . | | | | Website: www. | naccampbell.com E-mail | : main@mccam | pbell.com | |
|-----------------------|-----------|-----------------|--------------|-------------------|------------------------|--------------|-----------|---------|
| P & D Environn | nental | | t ID: #0014 | ; Xtra Oil-Castro | Date Sampled: | 04/06/04 | · | |
| 4020 Panama C | ourt | Valley | | | Date Received: | 04/07/04 | | |
| Oakland, CA 94 | IG11 4021 | Client Contac | t: Paul King | 3 | Date Extracted: | 04/07/04 | | |
| Oakiand, CA 94 | -4951 | Client P.O.: | | | Date Analyzed: | 04/08/04- | 04/09/0 | 04 |
| Extraction method: SW | | sel Range (C10- | • | ctable Hydrocarbo | ns as Diesel* | Wo | rk Order: | 0404075 |
| Lab ID | Client ID | Matrix | Fib. 1470 | TPH(d) | | | DF | % SS |
| 0404075-001A | MW-I | w | | 18,000,d,a, | h | | 10 | 104 |
| 0404075-002A | MW3 | w | | 32,000,a,d, | h | | 10 | 102 |
| 0404075-003A | EWI | w | <u></u> | 3400,a,d,l | l | | 10 | 82.0 |
| 0404075-004A | OW1 | w | | 74,000,a,d, | h | | 10 | 104 |
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| Reporting Limit for DF =1; ND means not detected at or | W | 50 | μg/L |
|--|---|----|------|
| above the reporting limit | S | NA | NA |

^{*} water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

Jh

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stod@ard solvent/mineral spirit.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

| P & D Enviro | onmental | | et ID: #0014; Xtra Oil-Castro | Date Sampled: | 04/06/04 | | <u></u> ` |
|-----------------------------|--------------------|--------------|---|-----------------|-----------|-----------|-------------|
| 4020 Panama | . Court | Valley | | Date Received: | 04/07/04 | | |
| Oakland, CA | 04611-4031 | Client Conta | ct: Paul King | Date Extracted: | 04/08/04 | 04/09/0 | 04 |
| Oakland, CA | 94011-4931 | Client P.O.: | | Date Analyzed: | 04/08/04- | 04/09/0 |)4 |
| Extraction method: | | ine Range (C | 6-C12) Volatile Hydrocarbons Analytical methods: SW8015Cm | as Gasoline* | We | rk Order. | 0404075 |
| Lab ID | Client ID | Matrix | TPH(g) | | | DF | % SS |
| 001A | MW-1 . | w | 28,000,a,h | | | 100 | 105 |
| 002A | MW3 | W | 81,000,a,h | | | 100 | 106 |
| 003A | EWI | w | 2600,a,h | | | 50 | 99.3 |
| 004A | ow1 | w | 50,000,a,h | | | 50 | 83.3 |
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| Reporting | g Limit for DF =1; | w | 50 | | | | ;/L |
| ND means not detected at or | | | | | | ** | , |

above the reporting limit

NA

NA

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.



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| P & D Environmental | Client Project ID: #0014; Xtra Oil-Castro | Date Sampled: 04/06/04 |
|-------------------------|---|--------------------------|
| 4020 Panama Court | Valley | Date Received: 04/07/04 |
| Oakland, CA 94611-4931 | Client Contact: Paul King | Date Extracted: 04/09/04 |
| Oakiaiid, CA 94011-4931 | Client P.O.: | Date Analyzed: 04/09/04 |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

| Extraction 1 | nethod: SW5030B | | | Analytical: | methods: SW8021 | B/8015Cm | | Work (| Order: 0 | 404075 |
|--------------|--|--------|--------|-------------|-----------------|----------|--------------|--------------|----------|--------|
| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % S |
| 005A | OW2 | w | 69,b,h | ND<6.2 | ND<0.62 | ND<0.62 | ND<0.62 | ND<0.62 | 1.2 | 96.9 |
| | | | | | | | | | | |
| | <u>.</u> | | | | | | | | | |
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| ND means | Limit for DF =1; not detected at or | W | 50 | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | μg/ |
| above th | e reporting limit | S | NA | NA | NA | NA | NA | NA | 1 | mg/F |

| * water and vapor samples and all TCLP & SPLP extracts are reported | d in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, |
|---|---|
| product/oil/non-aqueous liquid samples in mg/L. | |

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.





110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

| P & D Environmental | Client Project II | D: #0014. Van- 4 | O'I Contus | D-to Commission 04 | U06/04 | | | | |
|-------------------------------|----------------------------|---|------------|--------------------|----------|----------------------|--|--|--|
| P&D Environmental | Valley | D: #0014; Xtra (| Jii-Castro | Date Sampled: 04 | 1/06/04 | | | | |
| 4020 Panama Court | V diffey | | | Date Received: 04 | ·/07/04 | | | | |
| Oakland, CA 94611-4931 | Client Contact: | Client Contact: Paul King Date Extracted: 04/ | | | | | | | |
| Oaklaild, CA 74011-4331 | Client P.O.: | Client P.O.: Date Analyzed: 04/0 | | | | | | | |
| | Oxygen: | ates and BTEX b | y GC/MS* | | | | | | |
| Extraction Method: SW5030B | An | alytical Method: SW8260 |)B | | Work Ore | der: 040407 <i>5</i> | | | |
| Lab ID | 0404075-001B | 0404075-002B | 0404075-00 | 3B 0404075-004B | | | | | |
| Client ID | Client ID MW-1 MW3 EW1 OW1 | | | | | g Limit for | | | |
| Matrix | W | W | W | W | DF =1 | | | | |
| DF | 200 | 1000 | 2000 | 200 | S | w | | | |
| Compound | | Conce | entration | | ug/kg | μg/L | | | |
| tert-Amyl methyl ether (TAME) | ND<100 | ND<500 | ND<1000 | ND<100 | NA | 0.5 | | | |
| Benzene | 2300 | 34,000 | ND<1000 | 3100 | NA | 0.5 | | | |
| t-Butyl alcohol (TBA) | ND<1000 | 8800 | 34,000 | ND<1000 | NA | 5.0 | | | |
| 1,2-Dibromoethane (EDB) | ND<100 | ND<500 | ND<1000 | ND<100 | NA | 0.5 | | | |
| 1,2-Dichloroethane (1,2-DCA) | ND<100 | ND<500 | ND<1000 | ND<100 | NA | 0.5 | | | |
| Diisopropyl ether (DIPE) | ND<100 | ND<500 | ND<1000 | ND<100 | NA | 0.5 | | | |
| Ethylbenzene | 990 | 1500 | ND<1000 | 210 | NA | 0.5 | | | |
| Ethyl tert-butyl ether (ETBE) | ND<100 | ND<500 | ND<1000 | ND<100 | NA | 0.5 | | | |
| | | ' | | 112 | 1 | 1 0.5 | | | |

17,000

5900

9900

72,000

ND<1000

ND<1000

ND<100

ND<100

140

NA

NA

NA

0.5

0.5

0.5

| | Surr | ogate Recoverie | s (%) | | |
|----------|------|-----------------|-------|------|--|
| %SS1: | 94.3 | 94.1 | 96.0 | 91.1 | |
| %SS2: | 93.0 | 93.1 | 92.6 | 94.2 | |
| %SS3: | 105 | 105 | 105 | 107 | |
| Comments | h | h | h | h | |

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

110

800

4500



Methyl-t-butyl ether (MTBE)

Toluene

Xylenes

[#] surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

QC SUMMARY REPORT FOR SW8015Cm

Matrix: W

WorkOrder: 0404075

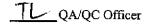
| EPA Method: SW8015Cm | E | Extraction: SW5030B | | | BatchID: | 11036 | S | Splked Sample ID: 0404074-004A | | | | | | |
|------------------------|--------|---------------------|--------|--------|----------|--------|--------|--------------------------------|------------|--------------|--|--|--|--|
| | Sample | Spiked | MS* | MSD* | MS-MSD* | LCS | LCSD | LCS-LCSD | Acceptance | Criteria (%) | | | | |
| | μg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | Low | High | | | | |
| TPH(btex) [£] | ND | 60 | 99.7 | 102 | 2.65 | 103 | 103 | 0 | 70 | 130 | | | | |
| МТВЕ | ND | 10 | 89.3 | 92.3 | 3.26 | 97 | 95.8 | 1.16 | 70 | 130 | | | | |
| Benzene | ND | 10 | 93.1 | 110 | 16.3 | 111 | 111 | 0 | 70 | 130 | | | | |
| Toluene | ND | 10 | 90.4 | 99.1 | 9.24 | 113 | 112 | 0.445 | 70 | 130 | | | | |
| Ethylbenzene | ND | 10 | 113 | 108 | 4.29 | 115 | 113 | 1.34 | 70 | 130 | | | | |
| Xylenes | ND | 30 | 93.3 | 107 | 13.3 | 107 | 100 | 6.45 | 70 | 130 | | | | |
| %SS: | 99.9 | 10 | 106 | 107 | 0.746 | 103 | 103 | 0 | 70 | 130 | | | | |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS and / or MSD splke recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

QC SUMMARY REPORT FOR SW8015C

Matrix: W

| Marke | \rdoe. | 0404074 | 2 |
|-------|--------|----------|----|
| WVMM | TO OF | 11404117 | η. |

| EPA Method: SW8015C | Extraction: SW3510C | | | BatchID: 11001 | | | Spiked Sample ID: N/A | | | | | |
|---------------------|---------------------|------|-----------------------|----------------|--------------------|--------|-----------------------|---------------------|-----|------|--|--|
| Sample Spiked | | MS* | AS* MSD* MS-MSD LCS L | | LCSD LCS-LCSD Acce | | | ptance Criteria (%) | | | | |
| | µg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | Low | High | | |
| TPH(d) | N/A | 7500 | N/A | N/A | N/A | 91.8 | 94.4 | 2.80 | 70 | 130 | | |
| %SS: | N/A | 2500 | N/A | N/A | N/A | 98.5 | 101 | 2.50 | 70 | 130 | | |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0404075

| EPA Method: SW8260B | SW50308 | 3 | BatchID: | 11009 | s | piked Sampi | le ID: 04040 | 065-001C | | |
|-------------------------------|---------|--------|----------|--------|---------|-------------|--------------|----------|------------|--------------|
| | Sample | Spiked | MS* | MSD* | MS-MSD* | LÇS | LCSD | LCS-LCSD | Acceptance | Criteria (%) |
| | µg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | Low | High |
| tert-Amyl methyl ether (TAME) | ND | 10 | 101 | 101 | 0 | 89.8 | 91.5 | 1.86 | 70 | 130 |
| Benzene | ND | 10 | 128 | 129 | 0.515 | 119 | 119 | 0 | 70 | 130 |
| t-Butyl alcohol (TBA) | ND | 50 | 75.3 | 75.5 | 0.216 | 75.8 | 76.3 | 0.607 | 70 | 130 |
| 1,2-Dibromoethane (EDB) | ND | 10 | 102 | 104 | 2.17 | 92 | 93.8 | 1.99 | 70 | 130 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 10 | 114 | 114 | 0 | 104 | 105 | 0.712 | 70 | 130 |
| Diisopropyl ether (DIPE) | ND | 10 | 108 | 107 | 0.731 | 100 | 99.6 | 0.600 | 70 | 130 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 99 | 99 | 0 | 89.5 | 90.2 | 0.779 | 70 | 130 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 98.6 | 100 | 1.46 | 87.8 | 89 | 1.32 | 70 | 130 |
| Toluene | ND | 10 | 107 | 108 | 0.711 | 96 | 96.9 | 0.867 | 70 | 130 |
| %SS1: | 103 | 10 | 99.6 | 99.2 | 0.383 | 98.4 | 97.8 | 0.606 | 70 | 130 |
| %SS2: | 100 | 10 | 91.8 | 91.9 | 0.148 | 92.4 | 93.4 | 1.02 | 70 | 130 |
| %SS3: | 108 | 10 | 96.9 | 96 | 0.932 | 94.2 | 97.1 | 2.99 | 70 | 130 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

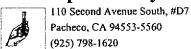
NR = analyte concentration in sample exceeds spike amount for soil metrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

P & D ENVIRONMENTAL
A Division of Paul H. King, Inc.
4020 Panama Court

Oakland, CA 94611 (510) 658-6916

CHAIN OF CUSTODY RECORD PAGE _ OF PROJECT NUMBER: PROJECT NAME: 0014 SAMPLED BY: (PRINTED AND SIGNATURE) REMARKS Wilhelm Welzenbach SAMPLE LOCATION SAMPLE NUMBER DATE TIME I TYPE Z/11/09 wife OWI 6 0W2 GOOD CONDITION APPROPRIATE, CONTAINERS HEAD SPACE ABSENT DECILORINATED IN LAI PRESERVED IN LAB RELINQUISHED BY: (SIGNATURE) RECEIVED BY: (SIGNATURE) LABORATORY: DATE TIME (THIS SHIPMENT) William Walchoce & RELINGUISHED BY: (SIGNATURE) McCambol Analytical TOTAL NO. OF CONTAINERS (THIS SHIPMENT) (975) 798-(620 RELINQUISHED BY: (SIGNATURE) DATE RECEIVED FOR LABORATORY BY: SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ()YES (X)NO (SIGNATURE) Follow with 8260, it possible.

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| | (510) 658- | 6916 0404 | 107 | 5 | >IJ HI | N OF | | וטו ר | (<u>L</u> | C | ハ | */ | go b | \$ 100 m | P.A | AGE | OF <u>/</u> _ |
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| ŀ | OO 14 SAMPLED BY: (PRI | NTED AND | | Xtra URE) | 011- | Castro | Valley | ۳. ۳. | 3/0/ | | DE LOS | \d* | | / / ; | 1 / L | | |
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| | RELINQUISHED BY: | ASIGNATURE | E) | DATE 1/7 | TIME 10:36 | RECEIVED B | Y: (SIGNATURE ≠∂20 | Ξ) | TOTAL | THIS S | HPME | HTAINER | 5 | TYR | Camp | | aly Vice I |
| | RELINOUISHED BY: | ` | ブニ | DATE | TIME | RECEIVED B | Y: (SIGNATURE | E) _ | LAE | BORA | ATOR | Y CO | NTAC | :T:]LAB0 | ORATORY | PHONE | NUMBER: |
| ı | uttraex. | #22 | 0 | 77 | 14:00 | MANA | Men | - O | 1 | nge | <u>Ja</u> 1 | fud | بإياره | (92 | 25)79 | 8-162 | 20 |
| | RELINQUISHED BY: | (SIGNATURE | Ξ) | DATE | TIME | RECEIVED F (SIGNATURE | OR LABORATOR | RY BY: | | 0 | SAI | | | YSIS RE | EQUEST | SHEET | |
| | ICE/C | | PROPRIA NTAINER ESERVET | S | | REMARKS: | UOAs p | reser | ve | d | To | + | <u> </u> | L. | | | |



CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0404075

Report to:

Paul King

P & D Environmental

4020 Panama Court

Oakland, CA 94611-4931

TEL: FAX: (510) 658-6916

510-834-0152

ProjectNo: #0014; Xtra Oil-Castro Valley

PO:

Bill to:

Requested TAT:

5 days

Accounts Payable

P & D Environmental

4020 Panama Court

Date Received:

4/7/04

Oakland, CA 94611-4931

Date Printed:

4/7/04

| | | | | | | | | | F | Request | ed Test | s (See le | egend b | elow) | | | | | |
|-------------|--------------|--------|-----------------|------|---|---|---|---|------|----------|--|--|---------|-------|-------------|----|----|----|----|
| Sample ID | ClientSampID | Matrix | Collection Date | Hold | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 0404075-001 | MW-1 | Water | 4/6/04 | | Λ | В | | 1 | | <u> </u> | | <u></u> | 1 | | | | Ι | | |
| 0404075-001 | MW3 | Water | 4/6/04 | + | A | В | | - | · · | | | | | | | | | | + |
| 0404075-003 | EW1 | Water | 4/6/04 | | Α | В | 1 | | | | | | | | | - | | | + |
| 0404075-004 | OW1 | Water | 4/6/04 | | A | В | | | **** | | | | | | | | | | |
| 0404075-005 | OW2 | Water | 4/6/04 | | Α | |] | | | | <u></u> | <u></u> | | | | | | | |

Test Legend:

| 1 | G-MBTEX_W |
|----|-----------|
| 6 | |
| 11 | |

| 2 | MBTEXOXY-8260B_W |
|----|------------------|
| 7 | |
| 12 | |

| 3 | |
|----|--|
| 8 | |
| 13 | |

| 4 | |
|----|--|
| 9 | |
| 14 | |

| 5 | |
|----|--|
| 10 | |
| 15 | |

Prepared by: Maria Venegas

Comments:

NOTE; Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.