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W. A. CRAIG, INC.

Environmental Contracting and Consulting

6940 Tremont Road Dixon, California 95620

Contractor and Hazardous Substances License #455752

e-mail: tech@wacraig.com (800) 522-7244

Dixon (707) 693-2929

Napa (707) 252-3353

Fax: (707) 693-2922

June 28, 2002

Project No. 3628 StID #922/RO0000234

JUL 0 2 2002

Mr. Barney Chan Alameda County Health Care Services Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject:

May 2002 Quarterly Monitoring Report

Oakland Truck Stop 1107 Fifth Street Oakland, California

Dear Mr. Chan:

Enclosed is the subject Quarterly Monitoring Report for the Oakland Truck Stop. At present, we are preparing to implement the Conduit Pathway Investigation. A most plan describing sampling procedures and sharing applied to the plant of the vicinity of the site with the some to you within the next stable. We plant the little and compling sever temporary borings along site in a Conduit Pathway Investigation.

If you have any questions in regard to this UST case, please contact me at (707) 693-2929.

Sincerely,

W.A. Craig, Inc.,

Tim Cook, PE Principal Engineer

cc: Reed Rinehart, Rinehart Distributing, Inc. Chuck Headlee, SFBRWQCB

4/15/02 atter



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QUARTERLY MONITORING REPORT MAY 2002

SITE LOCATION:
Oakland Truck Stop
1107 Fifth Street
Oakland, California

PREPARED FOR: Mr. Reed Rinehart Rinehart Distribution, Inc. P.O. Box 725 Ukiah, California 94582

SUBMITTED TO:
Mr. Barney Chan

Alameda County Department of Environmental Health Services
Division of Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577
(510) 567-6774
fax (510) 337-9335

W. A. CRAIG, INC. PROJECT # 3628 June 28, 2002



PROFESSIONAL CERTIFICATION

Quarterly Monitoring Report - May 2002

Oakland Truck Stop 1107 Fifth Street Oakland, California

W.A. Craig, Inc. Project No. 3628

June 28, 2002

This document has been prepared by the staff of W. A. Craig, Inc., under the professional supervision of the persons whose seals and signatures appear hereon. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analysis, conclusions and recommendations contained in this document are based upon site conditions as they existed at the time of the investigation and they are subject to change.

The conclusions presented in this document are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this document. W.A. Craig, Inc., recognizes that the limited scope of services performed in execution of this investigation may not be appropriate to satisfy the needs, or requirements of other state agencies, or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein is at the sole risk of said user.

Tim Cook, P.E. Principal Engineer No. C054036 Exp. 12-31-03

INTRODUCTION

Site Location and Description

The Oakland Truck Stop located at 1107 5th Street in Oakland, California ("the Site") is owned by Mr. Tony Muir. Rino Pacific, Inc. and Rinehart Distribution, Inc. lease the property from the owner. The Site is in a commercial and industrial district at the intersection of Adeline and 5th Streets (Figure 1). A service station building, two underground storage tanks, four pump dispenser islands, a truck scale and scale house currently occupy the Site.

The Site topography is flat and is bounded on the north by Fifth Street, on the west by Adeline Street, on the south by a restaurant and parking lot and on the east by Chestnut Street. The nearest surface water is the Oakland Estuary located approximately 2,400 feet south of the Site.

Background

The Site was developed as a truck stop approximately 40 years ago and has been in operation throughout this period. Three 10,000-gallon underground storage tanks (USTs) and one 8,000-gallon UST were formerly maintained at the Site. All four USTs were constructed of single-wall steel. Of the 10,000-gallon USTs, two contained diesel fuel and one contained mid-grade unleaded gasoline. The 8,000-gallon UST contained regular unleaded gasoline. Prior to the recent remodel of the Site, fuel product lines were constructed of single-wall fiberglass.

In mid-1995 an unauthorized release of fuel occurred as a result of a leak in a product line. Product lines associated with this release were replaced as soon as the leak was discovered. Interim cleanup of the spill was performed by installing and operating two product recovery sumps in the vicinity of the release. The sumps recovered approximately 6.3 gallons of gasoline using a skimmer device and reduced the floating product thickness to a sheen on the water in the recovery wells. The sumps were removed during recent leaseholder improvements at the Site. The water table fluctuates seasonally between 10 inches and 4 feet below grade.

In March 1999, the four single-walled USTs were replaced with two 15,000-gallon double-walled fiberglass USTs. An interim remedial action was performed during UST replacement activities to remove the grossly contaminated soil and groundwater.

The following is a summary of interim remedial activities performed at the Site by Trinity Excavating and Engineering, Inc. of Santa Rosa, California. The work was performed between February 8, 1999 and May 5, 1999.

(数1896)(数数36%)

2/8 through 2/10, 1999	Excavated to tops of tanks and rinsed three gasoline and one diesel underground fuel tanks
2/11/1999	Removed tanks and disposed offsite (observed by Fire Inspector)
3/3 &3/4, 1999	Removed approximately 2,100 tons of contaminated soil from excavation bottom and sides before sampling as directed by Fire Inspector. Collected excavation and stockpile samples. Removed water from pit as needed. Stored approximately 33,000 gallons of contaminated water in temporary storage tanks.
2/24 through 5/19, 1999	Loaded, manifested and disposed of 2,000.5 tons of contaminated soil at the Forward non-hazardous disposal facility near Stockton, California.
2/1 through 5/6, 1999	Provided and placed approximately 1,700 tons of backfill.
5/3 through 5/5, 1999	Disposed of contaminated water at Seaport Environmental.

Quarterly groundwater monitoring is being conducted. The direction of groundwater flow has varied from southwest to north. Interpretation of the groundwater gradient is suspect and could be affected by very localized recharge (i.e., leaking water or sewer lines).

The shallow aquifer beneath the Site has no beneficial use as a potential drinking water resource due to its high total dissolved solids concentration (>3,000 mg/l). Proposed Groundwater Amendments to the Water Quality Control Plan (Basin Plan), dated April 2000, specifically states that shallow groundwater to a depth of about 100 feet in portions of the East Bay Plain is often brackish due to naturally-occurring saltwater intrusion. However, well yields may be sufficient for industrial or irrigation uses.

This same document states that cleanup in areas that have no beneficial use as a drinking water resource, should be protective of ecological receptors, human health and probable non-potable uses (e.g., irrigation or industrial process supply). Pursuant to State Board Resolution No. 92-49, pollution sites will continue to be required to demonstrate that 1) reasonably adequate source removal has occurred, 2) the plume has been reasonably defined both laterally and vertically and 3) a long-term monitoring program is established to verify that the plume is stable and will not impact ecological receptors or human health (e.g., from volatilization into trenches and buildings). In the East Bay Plain there are deep aquifers that will continue to be designated as potential drinking water resources. In such a setting, the deep aquifers (defined as aquifers below the Yerba Buena Mud) are subject to protection as potential drinking water resources.

In a letter to Rinehart Distributing Inc. dated July 27, 2001, Alameda County Health Care Services (ACHCS) requested that additional investigation be performed to delineate the extent of petroleum hydrocarbons both on-site and off-site. Specifically, they requested monitoring wells to the south or adjacent to the main building. A Site Investigation Work Plan dated October 22, 2001 was submitted to and approved by the ACHCS. A site access agreement was executed with the adjacent property owner.

investigation activities are included in this report.

Details of these site

SCOPE OF WORK

The scope of work conducted by W.A. Craig, Inc (WAC) during this period included the following:

- Obtained regulatory approvals, permits, and utility clearance for well installations;
- Installed two offsite and one onsite monitoring wells;
- Abandoned one onsite monitoring well;
- Developed the three new monitoring wells;
- Measured dissolved oxygen concentrations and static water levels in eight onsite and two
 offsite monitoring wells;
- Purged and sampled groundwater from these wells;
- Analyzed samples for total petroleum hydrocarbons as gasoline (TPH-g), total petroleum hydrocarbons as diesel (TPH-d), benzene, toluene, ethylbenzene, xylenes (BTEX), fuel oxygenates (MtBE, ETBE, TAME, DIPE, tert-Butanol, methanol, ethanol) and lead scavengers (EDB and 1,2 DCA); and
- Prepared this Quarterly Monitoring Report.

MONITORING WELL INSTALLATION

Regulatory Approvals, Well Permits and Utility Clearance

Well permits were obtained from the Alameda County Department of Public Works. A copy of the well permit for the installation of wells MW-3N, MW-10 and MW-11 and the abandonment of well MW-3 is in **Appendix A**. The ACHCS was notified 48 hours prior to the start of field activities.

Per requirements of California law, underground service alert (USA) was notified of the intent to perform subsurface investigation at the Site and the investigation area was demarcated in white paint. USA notified public and private utility companies and each utility had the opportunity to mark the location of their underground utilities. W.A. Craig, Inc reviewed the location of buried utilities and found that no changes to the proposed well locations were needed.

Monitoring Well Drilling and Construction

On May 8, 2002, monitoring wells MW-3N, MW-10 and MW-11 were drilled using a truck-mounted hollow-stem auger drill rig. Monitoring will MW-10 and MW-11 were drilled using a truck-mounted hollow-stem auger drill rig. Monitoring will MW-10 and MW-11 were drilled as ing a truck-mounted hollow-stem auger drill rig. Monitoring wells MW-10 and MW-11 were drilled asing a truck-mounted hollow-stem auger drill rig. Monitoring wells MW-10 and MW-11 were drilled asing a truck-mounted hollow-stem auger drill rig. Monitoring wells MW-10 and MW-11 were drilled asing a truck-mounted hollow-stem auger drill rig. Monitoring wells MW-10 and MW-11 were drilled asing a truck-mounted hollow-stem auger drill rig. Monitoring wells MW-10 and MW-11 were drilled asing a truck-mounted hollow-stem auger drill rig. Monitoring wells MW-10 and MW-11 were drilled asing a truck-mounted hollow-stem auger drill rig. Monitoring wells MW-10 and MW-11 were drilled asing a truck-mounted hollow-stem auger drill rig.

GREET STRUCK

Well borings were continuously logged using a modified California sampler. Soils were described using the unified soil classification system. Lithologic descriptions included soil type, color, grain size, moisture content, texture, hardness, hydrocarbon staining or odor and other pertinent information. Boring logs are included in **Appendix B**.

One soil sample was collected at the soil-groundwater interface in each of the three new well borings. Soil samples were collected with a 1.5-foot long modified California sampler lined with brass sample tubes. The sampler was placed inside the hollow-stem augers down the boring and driven using a 140-pound hammer dropped approximately 30 inches. Immediately after removing the brass tubes from the sampler, five 5-gram aliquots of soil were collected in EnCore Samplers. These samplers meet all requirements for the collection of solid and waste oil samples for volatile organic analytes described in EPA Method 5035. EnCore samplers were pushed into the brass tubes using a T-handle until the Encore samplers were completely full. The cap coring body was then properly seated and locked in place to form an airtight seal. The EnCore samplers were then placed in a zipper foil pouch. The zipper foil pouch was labeled with the project name, project number, sample ID and date of collection. The same information was recorded on the chain of custody form. EnCore samplers were then placed in a cooler with ice to maintain them at 4 degrees Centigrade. Samples were delivered to the analytical laboratory within 24 hours of collection and were extracted within 48 hours of receipt by the lab.

Results of the soil analyses are summarized in Table 1. All three soil samples yielded detectable TPH-d. Concentrations ranged from 20 milligrams per kilogram (mg/kg) in boring MW-10 to 30 mg/kg in boring MW-3N. TPH-g was detected in MW-3N at 2.3 mg/kg. MtBE and total xylenes were detected in this same sample at 0.11 mg/kg and 0.0072 mg/kg, respectively. Total lead was detected in all three soil samples. Lead was within background concentrations in samples MW-11 and MW-3N. However, lead was 2,888 mg/kg in comple MW-12. This lead concentration is not related to the presence of hydrocarbons since this same sample did not yield detectable BTEX and TPH-g and the TPH-d concentration was 29 mg/kg, a relatively low value. Laboratory analytical reports for soil are included in Appendix C.

Soil cuttings from the drilling operations are stored onsite in 55-gallon, steel, DOT approve drums. These investigation-derived wastes will be properly disposed of upon approval of the disposal facility.

The three wells were constructed of two inch discuss, flush-threaded, Schedule-40 PVC well casing. The screen, casing and sand pack were installed through the hollow-stem augers. The screen has a clot size of 0.010 in the. Water was encountered at 5 feet below grade (fbg) to 7 fbg. The screened interval in all three wells was from 5 fbg to 12 fbg. The screened section annulus was packed with clean RMC #2/12 graded sand to two feet above the screened interval. Bentonite chips (Enviroplug) were placed above the sand as a sealing material. The well was sealed from the bentonite seal to the ground surface with a Portland cement/bentonite grout. No glues or other solvents were used during construction of the wells. The wells are not designed to provide optimum flow but are intended to provide representative water samples from the

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uppermost water-bearing zone. Well construction data for all monitoring wells is summarized in **Table 2**.

Wellheads are protected from vandalism with a locking expansion-plug cap and are housed within a traffic-rated box to protect the well from traffic and surface water runoff. The grout was allowed to set for a period of 72 hours prior to development or sampling.

Well Development

W.A. Craig developed the three new wells on May 13, 2002 by intermittent surging, bailing and pumping. Field parameters such as color, odor, turbidity, specific conductance, temperature, pH and the presence of hydrocarbons were monitored during development. Development continued until field parameters stabilized and the water was relatively clear and free of silt and sand. Well development logs documenting the volume of water removed and water quality parameters are included in **Appendix D.**

Surveying

On May 25, 2002, Horizon Surveys, Inc, a licensed land surveyor surveyed the existing and newly installed wells for horizontal and vertical control using the global positioning satellite (GPS) network for control and conventional methods for topography. The vertical datum of the survey is based on the USGS "Port 1" benchmark, which is 9.39 feet above mean sea level (msl) based on North American Geodetic Vertical Datum of 1988 (NGVD88). The tops of well casing elevations are accurate to within 0.01 foot. The survey methods are consistent with the GEOTRACKER requirements. Latitudes and longitudes are in decimal degrees, to nine significant digits, and based on monument from the North American Datum of 1983 (NAD83). A permanent mark on the top of each well casing references the surveyed point on the casing. Subsequent depth to water measurements will be made from this reference point.

MONITORING WELL ABANDONMENT

The water table is significantly higher than the screened interval and could prevent free product from entering this well. We proposed replacing this well with a new well (MW-3N) screened through the water table. On May 8, 2002, well MW-3 was abandoned by over-drilling the 2-inch diameter casing with hollow-stem augers. The traffic box and the PVC casing were removed and the borehole was filled with Portland cement/bentonite grout to the surface. A cold-patch asphalt mix finished the boring at the surface grade.

Quarterly Monitoring Report-May 2002

Oakland Truck Stop

Oakland, CA

MISSING

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GROUNDWATER SAMPLING AND ANALYSIS

经验以证明的证明证据根据

Groundwater Elevations

On May 20, 2002, water levels were measured in ten monitoring wells with an electronic water-level indicator. The wells were exposed to atmospheric conditions for approximately 30 minutes to stabilize static water levels. The depths to static water level measurements were subtracted from the top of casings to obtain static water elevations. Groundwater elevations for this and previous monitoring events are presented in Table 3. A depiction of the groundwater flow direction is shown on Figure 3. If the groundwater elevations from wells MW-1, MW-7 and MW-10 are excluded from the analysis, the groundwater flow direction is northerly under a gradient of approximately 0.011 ft/ft. Hydrographs showing the variation of groundwater elevations with time are presented on Figure 4.

Groundwater Sampling

On May 20, 2002, the wells were purged prior to collecting groundwater samples to ensure that formation water was sampled. The dissolved oxygen concentration was measured prior to sampling. Dissolved oxygen concentrations and temperature readings are summarized in **Table 4**. Three well volumes were purged from each well prior to sampling to ensure that water samples were representative of the ambient groundwater quality. Well sampling logs documenting the volume of water purged and water quality parameters are included in **Appendix E**.

Groundwater samples were collected using disposable polyethylene bailers. The samples were collected in laboratory cleaned sample bottles appropriate for each analysis. The first two baners evacuated from well-live. Groundwater samples were submitted under chain-of-custody control to McCampbell Analytical, Inc. (MAI), of Pacheco, California. The purged groundwater is currently stored on-site in labeled, DOT approved, 55-gallon, steel drums.

Groundwater Analytical Results

The groundwater samples were analyzed for TPH-g/TPH-d using EPA Method 8015 (modified), for purgeable aromatic hydrocarbons (BTEX) using EPA Method 8020 and for fuel oxygenates and lead scavengers using EPA Method 8260. MAI is certified by the State of California to perform these analyses. The results of the analyses are summarized in **Table 5.** A copy of the laboratory analytical report and chain-of-custody document are in **Appendix F**.

MtBE concentrations remain above 50,000 g/L in wells MW-4. MW-7 and MW-8. The highest concentrations are detected in well MW-7. Approximately 6 inches of floating product was observed in this well. MW-7 yielded 1111-g at 140,000 dg/L, 1111-d at 310,000 ug/L, benzene at 24,000 ug/L and MtDE at 220,000 ug/L. The distribution of MtBE in groundwater on May 20,

2002 is presented on Figure 5. MtBE concentrations versus time in monitoring wells are depicted on Figure 6.

MtBE is the principal constituent of concern (COC). TPH-g, TPH-d and BTEX constituents are present in many wells. TPH-g was only detected in one well thus no figure depicting the extent of TPH-g in groundwater is provided. TPH-g concentrations versus time in all monitoring wells are depicted on Figure 7. The distribution of TPH-d in groundwater on May 20, 2002 is presented on Figure 8. TPH-d concentrations versus time for these same wells are presented on Figure 9.

SUMMARY

Well MW-3 was abandoned because the well screen interval was significantly deeper than the water table and data from this well could not be compared to data from other monitoring wells that intersected the water table. This well was replaced with well MW-3N. Well MW-3N has a screened interval from 5 fbg to 12 fbg, which intersects the water table. Two offsite monitoring wells (MW-10 and MW-11) were installed on the property immediately adjacent and south of the Site to better define the groundwater flow direction and to determine if hydrocarbons have migrated offsite.

Remediation of MtBE will also remove the other COCs. The hydrocarbon plume appears to be centered about wells MW-4, MW-5, MW-6, MW-7 and MW-8. This area includes the former UST pit, and dispenser islands to the west, and east of the former UST pit. This area will be the focus of the remedial action. The next quarterly sampling event is scheduled for August 2002 and the next *Quarterly Monitoring Report* will be submitted by September 30, 2002.

RECOMMENDATIONS

We recommend collecting additional soil and groundwater samples along buried utility conduits to determine if these conduits are providing a pathway for the offsite migration of hydrocarbons from the site. A work plan for a conduit study will be prepared and submitted to the ACHCS. Upon approval of this work plan we will conduct this investigation and attempt to submit the results of this study with the next *Quarterly Monitoring Report*.

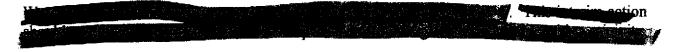


Table 1
Soil Analytical Results
Oakland Truck Stop

Well ID	Depth	TPH-d	ТРН-д	MtBE (8260)	Benzene	Toluene	Ethyl- benzene	Xylenes	DIPE
MW-3N	7.5	30	2.3	0.11	< 0.005	< 0.005	< 0.005	0.0072	< 0.005
MW-10	6.5	20	<1.0	< 0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005
MW-11	7.0	29	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005

Well ID	Depth	ETBE	TAME	tert- Butanol	Methanol	Ethanol	EDB	1,2 DCA	Total Lead
MW-3N	7.5	< 0.005	<0.005	< 0.05	<2.5	< 0.25	< 0.005	<0.005	12
MW-10	6.5	< 0.005	< 0.005	<0.05	<2.5	<0.25	< 0.005	<0.005	79
MW-11	7.0	< 0.005	< 0.005	< 0.05	<2.5	<0.25	< 0.005	<0.005	2,000

Notes: Units are mg/kg

Table 2
Well Construction Data
Oakland Truck Stop

Well Number	Date Installed	Casing Diameter (inches)	Borehole Depth (feet)	Screened Interval (feet)	Filter Pack Interval (feet)	Bentonite Interval (feet)	Grouting Interval (feet)
MW-1	10/10/96	2	20.5	10-20	9-20	7-9	1-7
MW-2 ¹	10/10/96	2	14.0	8-13	7-8	5-7	1-5
MW-3 ²	10/10/96	2	17.0	12-17	11-17	9-11	1-9
MW-3N	05/08/02	2	12.0	5-12	4-12	2-4	1-2
MW-4	08/16/00	2	20.5	5-20	4-20	3-4	1-3
MW-5	08/16/00	2	20.5	5-20	4-20	7-13	1-3
MW-6	08/16/00	2	20.5	5-20	4-20	3-4	1-3
MW-7	08/17/00	2	20.5	5-20	4-20	3-4	1-3
MW-8	08/16/00	2	20.5	5-20	4-20	3-4	1-3
MW-9	08/23/00	2	20.5	5-20	4-20	3-4	1-3
MW-10	05/08/02	2	12.0	5-12	3-12	2-3	1-2
MW-11	05/08/02	2	12.0	5-12	3-12	2-3	1-2

Notes: ¹MW-2 was abandoned during the UST excavation and removal in March 1999.

²MW-3 was abandoned in May 2002 and replaced with MW-3N.

Table 4
Dissolved Oxygen Concentrations
Oakland Truck Stop

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Monitoring Well	Date	Dissolved Oxygen Concentration (mg/l)	Temperature (Celsius)	Dissolved Oxygen Percent of Saturation
MW-1	08/30/00	0.27	24.2	3.2%
	11/06/00	0.24	21.8	2.7%
	02/22/01	0.76	15.7	7.6%
	05/07/01	0.79	20.3	8.6%
	08/27/01	0.20	23.9	2.4%
	11/04/01	0.60	22.5	6.9%
	02/15/02	0.32	17.8	3.3%
	05/20/02	0.42	18.9	4.5%
MW-3	08/30/00	0,35	26.4	4.4%
	11/06/00	0.23	22.7	2.6%
	02/22/01	0.97	15.3	9.6%
	05/07/01	NM	NM	NM
	08/27/01	0.40	23.9	4.7%
	11/04/01	NM	NM	NM
	02/15/02	0,37	18.7	3.9%
MW-3N	05/20/02	0.51	20.6	5.6%
MW-4	08/30/00	0.16	27.4	2.0%
	11/06/00	0.30	23.9	3.5%
	02/22/01	0.85	16.3	8.6%
	05/07/01	0.95	20,5	10.4%
	08/27/01	0.20	26.1	2.5%
	11/04/01	0.30	23.7	3.5%
	02/15/02	0.18	17.0	1,8%
	05/20/02	0.21	20.0	2.3%
MW-5	08/30/00	0.28	27.0	3.6%
	11/06/00	0.24	22.6	2.8%
	02/22/01	0.77	14.7	7.5%
	05/07/01	0.99	19.8	10.7%
	08/27/01	0.20	26.4	2.5%
	11/04/01	0.60	23.1	7.0%
	02/15/02	0.27	16.9	2.8%
	05/20/02	0.22	18.7	2.3%
MW-6	08/30/00	0.42	27.7	5.4%
111,1	11/06/00	0.23	23.0	2.7%
1	02/22/01	1.01	15.3	10.0%
	05/07/01	0.89	21.0	9.9%
1	08/27/01	0.15	26.5	1.9%
ŀ	11/04/01	0.50	23.0	5.8%
ł	02/15/02	0.23	18.3	2.4%
ŀ	05/20/02	0.25	22.5	2.9%
MW-7	08/30/00	0.17	26.8	2.1%
.,,,,	11/06/00	0.25	23.5	2.1%
ŀ	02/22/01	0.23	17.1	
•	05/07/01	0.56	21.0	6.8%
ŀ	08/27/01	0.40	25.4	6,2%
}	11/04/01	0.42		4,9%
ŀ	02/15/02	0.18	24.0 18.3	5.0%
}	05/20/02	0.42	20,2	1.9% 4.6%

Table 4
Dissolved Oxygen Concentrations
Oakland Truck Stop

		Outsiding 1100		
Monitoring Well	Date	Dissolved Oxygen Concentration (mg/l)	Temperature (Celsius)	Dissolved Oxygen Percent of Saturation
MW-8	08/30/00	0.18	26.4	2.3%
	11/06/00	0.25	23.7	2.9%
	02/22/01	0.69	17.1	7.1%
	05/07/01	0,96	21,1	10.7%
	08/27/01	0.15	26.1	1.9%
	11/04/01	0.3	24.2	3.6%
	02/15/02	0.25	17.0	2.6%
	05/20/02	0.24	20.0	2.6%
MW-9	08/30/00	0.30	22.8	3.5%
	11/06/00	0.31	21.7	3.5%
	02/22/01	0.71	16.2	7.2%
	05/07/01	0.97	18.8	10.3%
[08/27/01	0.2	23.0	2.3%
	11/04/01	0.3	22.1	3.4%
	02/15/02	0.22	17.6	2.3%
	05/20/02	0.25	18.7	2.6%
MW-10	05/20/02	0.21	16.7	2.1%
MW-11	05/20/02	0.22	19.6	2.4%

Notes: NM = not measured

Table 5
Groundwater Analytical Results
Oakland Truck Stop

	Dare-			l		-	F. 1		-				Т				
Well Number	Date Sampled	TPH-d	TPH-g	MtBE	Benzene		Ethyl- benzene	Xylenes	DIPE	ETBE	MtBE (8260)	TAME	tert- Butanol	Methanol	Ethanol	EDB	1,2 DCA
MW-1	11/04/96	220	ND	NA	_ND	ND	ND	ND	ΝA	NA	NA	NA	NA	NA	NA	NA	NA
	03/05/97	230	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/12/97	290	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/97	081	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	_ NA	NA
	02/13/98	590	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/07/98	1,400	ND	NA	ND	ND	ND	ND	NA	NA	2.7	NA	NA	NA	NA	NA	NA
	10/01/98	1,100	ND	NA	ND	ND	ND	ND	NΑ	NA	1.8	NA	NA	NA	NA	NA	NA
	12/30/98	1,700	ND	NA	ND	ND	ND	ND	NA	NA	2.3	NA	NA	NA	NA	NA	NA
	03/21/00	3,100	220	NA	11	ND	ND	ND	NA	NA	4,800	NA	NA	NA	NA	NA	NA
	08/30/00	1,600	140	2,900	5.3	<0.5	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA .	NA	NA
	11/06/00	1,500	51	1,700	1.0	<0.5	<0.5	<0.5	<50	<50	2,100	<50	<250	NA	NA	<50	<50
	02/22/01	3,000	140	1,000	<0.5	<0.5	<0.5	< 0.5	<20	<20	1,100	<20	<100	<4.000	<1,000	<20	<20
	05/07/01	3,800	<50	780	<0.5	<0.5	< 0.5	< 0.5	<20	<20	1,100	<20	<100	<10,000	<1,000	<20	<20
	08/22/01	1,800	<110	1,900	<0.5	<0.5	<0.5	<0.5	<25	<25	1,600	<25	<130	NA	NA	<25	<25
	11/04/01	1,300	<50	1600	<0.5	<0.5	<0.5	<0.5	<50	<50	1,500	<50	<250	NA	NA	<50	<50
	02/15/02	2,000	<50	610	<0.5	<0.5	<0.5	<0.5	<20	<20	770	<20	<100	<10,000	<1,000	<20	<20
	05/20/02	160	<50	570	<0.5	<0.5	<0.5	<0.5	<10	<10	730	<10	<100	<10,000	<1,000	<10	<10
MW-2	11/04/96	2,700	910	NA	120	23	3.5	51	NA	NA	NA	NA	NÄ	NA	NA	NA	NA
	03/05/97	2,300	4,400	NA	1,500	51	24	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/12/97	2,400	3,600	NA	1,200	14	12	40	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/97	970	3,700	NA	570	31	19	60	NA	NA	NA	NA	NA	NA.	NA	NA	NA
	02/13/98	2,200	6,500	NA	2,400	31	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/07/98	2,700	5,200	NA	2,800	ND	ND	ND	NA	NA	1,000,000	NA	NA	NA	NA	NA	NA
	10/01/98	1,200	1,200	NA	330	12	8.8	11	NA	NΑ	360,000	NA	NA	NA	NA	NA	NA
Well Destroyed	12/30/98	1,900	1,000	NA	96	ND	ND	ND	NA	NA	360,000	NA	NA	NA	NA	NA	NA
MW-3	11/04/96	310	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/05/97	210	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA NA
	06/12/97	94	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/97	2,300	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA I	NA.	NA NA	NA NA
	02/13/98	570	ND	ÑA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA NA	NA NA	NA NA	NA NA
	07/07/98	1,100	ND	NA	ND	ND	ND	ND	NA	NA	6.6	NA	NA	NA	NA	NA	NA NA
	10/01/98	390	ND	NA	ND	ND	ND	ND	NA	NA	4.8	NA	NA	NA	NA	NA NA	NA NA
	12/30/98	64	ND	NA	ND	ND	ND	ND	NA.	NA	4.5	NA	NA .	NA NA	NA NA	NA NA	NA NA
	03/21/00	2,800	ND	NA	ND	ND	ND	ND	NA	NA	4.8	NA	NA NA	NA NA	NA NA	NA NA	NA NA
	08/30/00	260	<50	12	1.3	<0.5	<0.5	<0.5	NA	NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA
	11/06/00	940	<50	25	< 0.5	<0.5	<0.5	<0.5	<1	<1	12	< <u>1</u>	<5	NA NA	NA NA	<1 <1	NA <1
	02/22/01	340	<50	18	1.2	1.5	< 0.5	0.74	<1	<1	26	<1	<5	<200	<50	<1	<1
	05/07/01	460	140	25	0.76	4.7	2.2	14		<5,000	200000	<5,000	<25,000	<2,500,000	<250,000	<1	<1
	08/22/01	130	<50	41	<0.5	<0.5	<0.5	<0.5	<1	<1	44	<1	<5	NA NA	NA	<1	<1
	11/04/01	190	<50	36	<0.5	<0.5	<0.5	<0.5	<1	<1	43	<]	<5	NA NA	NA NA	<1	<1
	02/15/02	780	<50	38	<0.5	<0.5	<0.5	<0.5	<1	<1	45	<1		<500	<50	<1	<1
	05/20/02	1,800	<50	1,100	<0.5	<0.5	<0.5	<0.5	<25	<25	1,500	<25	<250	<25,000	<2,500	<25	<25

Table 5
Groundwater Analytical Results
Oakland Truck Stop

11/06/00 170 <3 * 11/06/00 NA <3 02/22/01 120 <3 05/07/01 240 <4 08/22/01 300 <5 11/04/01 210 <5 02/15/02 340 <5 05/20/02 200 <2 MW-5 08/30/00 450 1,	TPH-g	umber Date Sampled TPH-		Benzene	Toluene	Ethyl- benzene	Xylenes	DIPE		MtBE (8260)	ТАМЕ	tert- Butanol	Methanol	Ethanol	EDB	1,2 DCA
* 11/06/00 NA <3 02/22/01 120 <3 05/07/01 240 <4 08/22/01 300 <5 11/04/01 210 <5 02/15/02 340 <5 05/20/02 200 <2 05/20/02 200 <2 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/02 200 <5 05/20/01 470 <1 05/07/01 470 <1 05/07/01 470 <1 05/07/01 470 <1 05/20/02 480 <1 05/20/02 1,600 <5 05/20/02 1,600 <5 05/20/02 1,600 <5 05/20/02 1,600 <5 05/20/02 1,600 <5 05/20/02 1,600 <5 05/20/02 1,600 <5 05/20/01 420 <5 05/20/01 420 <5 05/20/01 900 <1 08/22/01 520 <1 11/04/01 420 <5 05/20/02 910 <5 05/20/02 690 <5 05/20/02 690 <5 05/20/02 690 <5 05/20/02 1,000 80 05/20/01 2,000 80 05/20/01 2,000 80 05/20/01 2,000 80 05/20/01 2,000 80 05/20/01 3,000 100 05/20/01 2,000 80 05/20/01 2,000 80 05/20/01 2,000 80 05/20/01 2,000 100 05/20/02 21,000 96 05/20/02 310,000 140 05/20/02 310,000 140 05/20/02 310,000 140 05/20/02 310,000 140 05/20/02 310,000 140 05/20/02 310,000 140 05/20/02 310,000 140 05/20/02 310,000 140	1,300		210,000	64	63	9.7	110	NA	NA	NA	NA	NA	NA	NA	NA	NA
02/22/01 120 <3			130,000	80	<4	<5	<3	<2,500	. /	120,000	<2,500	<13,000	NA	NA	<2,500	<2,500
05/07/01 240 <4 08/22/01 300 <5 11/04/01 210 <5 02/15/02 340 <5 05/20/02 200 <2 MW-5 08/30/00 450 1,			130,000	86	<4	<7	<6	<2,500	<2,500	120,000	<2,500	<13,000	NA	NA	<2,500	<2,500
08/22/01 300 <5			120,000	30	<3	<3	<3	<2,500	<2,500	150,000	<2,500	<13,000	<500,000	<130,000	<2,500	<2,500
11/04/01 210 <5	<4,200	05/07/01 240	150,000	<20	<10	<5	<5	<1,000	<1,000	59,000	<1,000	<5,000	<500,000	<50,000	<5,000	<5,000
02/15/02 340 <5 05/20/02 200 <2 MW-5 08/30/00 450 1,			160,000	<5	<5	<5	<5	<5,000	<5,000	190,000	<5,000	<25,000	NA	NA	<5,000	<5,000
05/20/02 200 <2		11/04/01 210	130,000	<5	<5	<5	<5	<2,500	<2,500	170,000	<2,500	<13,000	NA	NA	<2,500	<2,500
MW-5 08/30/00 450 1. 11/06/00 520 <1			160,000	<5	<5	<5	<10	<2,500	<2,500	160,000	<2,500	<12,500	<1,250,000	<125,000	<2,500	<2,500
11/06/00 520 <1 02/22/01 270 <1 05/07/01 470 <1 08/22/01 780 <2 11/04/01 670 <1 05/20/02 1,600 <1 05/20/02 1,600 <1 05/20/02 1,600 <1 05/20/02 1,600 <1 05/20/02 1,600 <1 05/20/01 1,100 <1 02/22/01 420 <1 05/07/01 900 <1 08/22/01 520 <1 05/20/02 690 <1 05/20/02 690 <1 05/20/02 690 <1 05/20/01 2,000 80 02/22/01 2,400 84 05/07/01 7,600 100 * 05/07/01 8,200 100 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	<2,500	05/20/02 200	98,000	<25	<25	<25	<25	<1,700	<1,700	130,000	<1,700	<17,000	<2,500,000	<170,000	<1,700	<1,700
02/22/01 270 <1	1,000	-5 08/30/00 450	52,000	<5	<5	<5	<5	ΝA	NA	NA	NA	NA	NA	NA	NA	NA
05/07/01	<1,000	11/06/00 520	44,000	<1	<1	<1	<1	<1,000	<1,000	42,000	<1,000	<5,000	NA	NA	<1,000	<1,000
08/22/01 780 <2	<1,000	02/22/01 270	30,000	<1	<1	<i< td=""><td><1</td><td><500</td><td><500</td><td>39,000</td><td><500</td><td><2,500</td><td><100,000</td><td><25,000</td><td><500</td><td><500</td></i<>	<1	<500	<500	39,000	<500	<2,500	<100,000	<25,000	<500	<500
11/04/01 670 <1 02/15/02 480 <1 05/20/02 1,600 < 05/20/02 1,600 < MW-6 08/30/00 1,300 1, 11/06/00 1,100 < 02/22/01 420 < 05/07/01 900 <1 08/22/01 520 < 11/04/01 420 < 02/15/02 910 < 05/20/02 690 < 05/20/02 690 600 160 11/06/00 1,700 80 02/22/01 2,000 80 * 02/22/01 2,400 84 05/07/01 7,600 100 * 05/07/01 8,200 100 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	<1,800	05/07/01 470	48,000	<5	<2	<2	<2	<1	<i< td=""><td>33</td><td><1</td><td><5</td><td><500</td><td><50</td><td><1,000</td><td><1,000</td></i<>	33	<1	<5	<500	<50	<1,000	<1,000
02/15/02	<2,200	08/22/01 780	63,000	<3	<3	<3	<3	<1,000	<1,000	70,000	<1,000	<5,000	NA	NA	<1,000	<1,000
05/20/02	<1,700	11/04/01 670	44,000	<2	<2	<2	<2	<1,000	<1,000	37,000	<1,000	<5,000	NA	NA	<1,000	<1,000
MW-6 08/30/00 1,300 1, 11/06/00 1,100 02/22/01 420 05/07/01 900 <1	<1,100		33,000	<1	<1	<1	<1	<1,250	<1,250	33,000	<1,250	<6,250	<625,000	<62,500	<1,250	<1,250
11/06/00	<500	05/20/02 1,600	21,000	<5	<5	<5	<5	<500	<500	28,000	<500	<5,000	<500,000	<50,000	<500	<500
02/22/01 420 < 05/07/01 900 <1 08/22/01 520 < 11/04/01 420 < 02/15/02 910 < 05/20/02 690 < MW-7 08/30/00 2,600 160 11/06/00 1,700 80 02/22/01 2,000 80 * 02/22/01 2,400 84 05/07/01 7,600 100 * 05/07/01 8,200 100 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 21,000 96 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	1,300	-6 08/30/00 1,300	23,000	55	<0.5	16	27	NA	NA	NA	NA	NA	NA	NA	NA	NA
05/07/01 900 <1 08/22/01 520 < 11/04/01 420 < 02/15/02 910 < 05/20/02 690 < MW-7 08/30/00 2,600 160 11/06/00 1,700 80 02/22/01 2,000 80 * 02/22/01 2,400 84 05/07/01 7,600 100 * 05/07/01 8,200 100 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 21,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	<630	11/06/00 1,100	26,000	7	8.1	<3	5.2	<630	<630	27,000	<630	<3.200	NA	NA	<630	<630
08/22/01 520 < 11/04/01 420 < 02/15/02 910 <	<200	02/22/01 420	6,500	<5	<5	<5	<5	<100	<100	8,000	<100	<500	<20,000	<5,000	<100	<100
11/04/01 420 < 02/15/02 910 < 05/20/02 690 < 05/20/02 690 < MW-7 08/30/00 2,600 160 11/06/00 1,700 80 02/22/01 2,000 84 05/07/01 7,600 100 * 05/07/01 8,200 100 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 < 11/06/00 810 < 3	<1,000	05/07/01 900	37,000	<2	<2	<1	<1	<500	<500	40,000	<500	<2,500	<250,000	<25,000	<500	<500
02/15/02 910 < 05/20/02 690 < 05/20/02 690 < 05/20/02 690 < 05/20/02 690 < 05/20/00 2,600 160 11/06/00 1,700 80 02/22/01 2,000 80	<350	08/22/01 520	8,600	<2	<1	<0.5	<0.5	<200	<200	8,800	<200	<1,000	NA	NA	<200	<200
05/20/02 690 < MW-7	<500	11/04/01 420	12,000	<2	<2	<0.5	< 0.5	<250	<250	17,000	<250	<1,300	NA	NA	<250	<250
MW-7 08/30/00 2,600 160 11/06/00 1,700 80 02/22/01 2,000 80 * 02/22/01 2,400 84 05/07/01 7,600 100 08/22/01 22,000 110 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 21,000 96 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3		02/15/02 910	23,000	2.6	4.5	<1	4.2	<1,000	<1,000	26,000	<1,000	<5.000	<500,000	<50,000	<1,000	<1,000
11/06/00 1,700 80 02/22/01 2,000 80 * 02/22/01 2,400 84 05/07/01 7,600 100 08/22/01 22,000 110 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	<620	05/20/02 690	25,000	<6.2	<6.2	<6.2	<6.2	<500	<500	37,000	<500	<5,000	<500,000	<50,000	<500	<500
02/22/01 2,000 80 * 02/22/01 2,400 84 05/07/01 7,600 100 * 05/07/01 8,200 100 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	160,000 8	-7 08/30/00 2,600	800,000	28,000	15,000	1,200	5,900	NA ·	NA	NA	NA	ΝA	NA	NA	NA	NA
* 02/22/01 2,400 84	80,000 5	11/06/00 1,700	540,000	23,000	12,000	1,200	5,000	<13,000	<13,000	920,000	<13,000	<63,000	NA	NA	<13,000	<13,000
* 05/07/01 7,600 100 * 05/07/01 8,200 100 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	80,000 4	02/22/01 2,000	440,000	19,000	12,000	1,100	3,200	<5,000	<5,000	460,000	<5,000	<2,500	<1,000,000		<5,000	<5,000
* 05/07/01 8,200 100 08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	84,000 4	02/22/01 2,400	400,000	20,000	13,000	1,200	3,400	<5,000	<5,000	500,000	<5,000	<25,000	<1,000,000	<250,000	<5,000	<5,000
08/22/01 22,000 110 11/04/01 6,500 85 02/15/02 21,000 96 96 96 96 96 96 96	100,000 4	05/07/01 7,600	460,000	25,000	16,000	1,700	6,600	<5,000		520,000	<5,000	<2,500	<2,500,000	<250,000	<5,000	<5,000
11/04/01 6,500 85 02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	100,000 5	05/07/01 8,200	530,000	25,000	17,000	1,700	6,700	<5,000	<5,000	500,000	<5,000	<25,000	<2,500,000	<5,000	<5,000	<5,000
02/15/02 21,000 96 * 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	110,000 2	08/22/01 22,000	240,000	18,000	12,000	2,000	9,400	<5,000	<5,000	250,000	<5,000	<25,000	NA	NA	<5,000	<5,000
* 02/15/02 29,000 160 05/20/02 310,000 140 MW-8 08/30/00 690 <1 11/06/00 810 <3	85,000 1	11/04/01 6,500	150,000	17,000	2,700	2,100		<2,500	<2,500	180,000	<2,500	<13,000	NA	NA	<2,500	<2,500
MW-8 08/30/00 690 <1 11/06/00 810 <3	96,000 !	02/15/02 21,000	80,000	21,000	7,300	2,600		<5,000	<5,000	200,000	<5,000	<25,000	<2.500.000	<250,000	<5,000	<5,000
MW-8 08/30/00 690 <1 11/06/00 810 <3		02/15/02 29,000			27,000	3,700		<5,000		200,000	<5,000	<25,000	<2,500,000	<250,000	<5,000	<5,000
11/06/00 810 <3	140,000 1	05/20/02 310,00	80,000	24,000	21,000	3,800		<5,000	<5,000	220,000	<5,000		<5,000,000	<500,000	<5,000	<5,000
	<1,000	-8 08/30/00 690	28,000	18	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA NA	NA
			20,000	<8	<5	<3		<2,500	<2,500	76,000	<2,500	<13,000	NA NA	NA NA	<2,500	<2,500
[02/22/01		02/22/01 1,100	99,000	53	<3	<3		<2,000	<2,000	130,000	<2,000	<10,000	<400,000	<100,000	<2,000	<2,000
05/07/01 1,300 <5	<5,000 1	05/07/01 1,300	10,000	32	<10	<5		<2,500		120,000	<2,500		<1,300,000	<13,000	<2,500	<2,500
			76,000	<5	<5	<5		<1.700	<1,700	86,000	<1,700	<8,500	NA	NA	<1,700	<1,700
			60,000	6.9	<0.5	<0.5		<2,500	<2,500	49,000	<2,500	<13,000	NA NA	NA NA	<2,500	<2,500

Table 5
Groundwater Analytical Results
Oakland Truck Stop

Well Number	Date Sampled	TPH-d	ТРН-g	MtBE	Benzene	Toluene	Ethyl- benzene	Xylenes	DIPE	ETBE	MtBE (8260)	ТАМЕ	tert- Butanol	Methanol	Ethanol	EDB	1,2 DCA
MW-8	02/15/02	1,500	<3,400	110,000	<5	<5	<5	<5	<2,500	<2,500	91,000	<2,500	<12,500	<1,250,000	<125,000	<2,500	<2,500
	05/20/02	2,200	<1,700	66,000	<17	<17	<17	<17	<1,000	<1,000	86,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
MW-9	08/30/00	770	<50	97	< 0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	390	<50	190	<0.5	<0.5	<0.5	< 0.5	<25	<25	220	<25	<125	NA	NA	<5	<5
	02/22/01	240	<50	120	<0.5	<0.5	<0.5	< 0.5	<2	<2	160	<2	<1	<400	<100	<2	<2
	05/07/01	190	<50	120	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	150	<2.5	<13	<1300	<130	<2.5	<2.5
	08/22/01	120	<50	120	<0.5	< 0.5	<0.5	<0.5	<5	<5	120	<5	<25	NA	NA	<5	<5
	11/04/01	160	<50	130	<0.5	<0.5	<0.5	<0.5	<5	<5	120	<5	<25	NA	NA	<5	<5
	02/15/02	150	<50	92	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	98	<2.5	<12.5	<1,250	<125	<2.5	<2.5
	05/20/02	380	<50	79	<0.5	<0.5	<0.5	<0.5	<2.5	<2.5	85	<2.5	<25	<2,500	<250	<2.5	<2.5
MW-10	05/20/02	63	<50	<5.0	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<5	<500	<50	<0.5	<0.5
MW-11	05/20/02	95	<50	260	1.5	3.0	<0.5	1.4	<5	<5	310	<5	<50	<5,000	<500	<5	<5

Notes: units are micrograms per liter (ug/L)

ND = Not detected

NA = Not analyzed

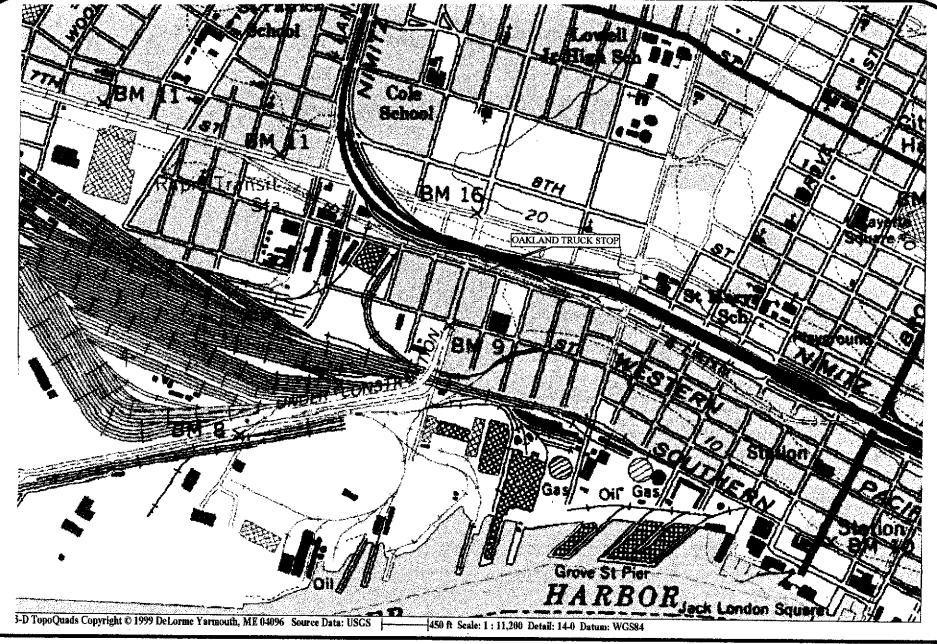
* = Duplicate Sample

MW-2 was destroyed during excavation of contaminated soil in March 1999

MW-3 was destroyed in May 2002

MW-4 through MW-9 were constructed in August 2000

MW-3N, MW-10 and MW-11 were constructed in May 2002





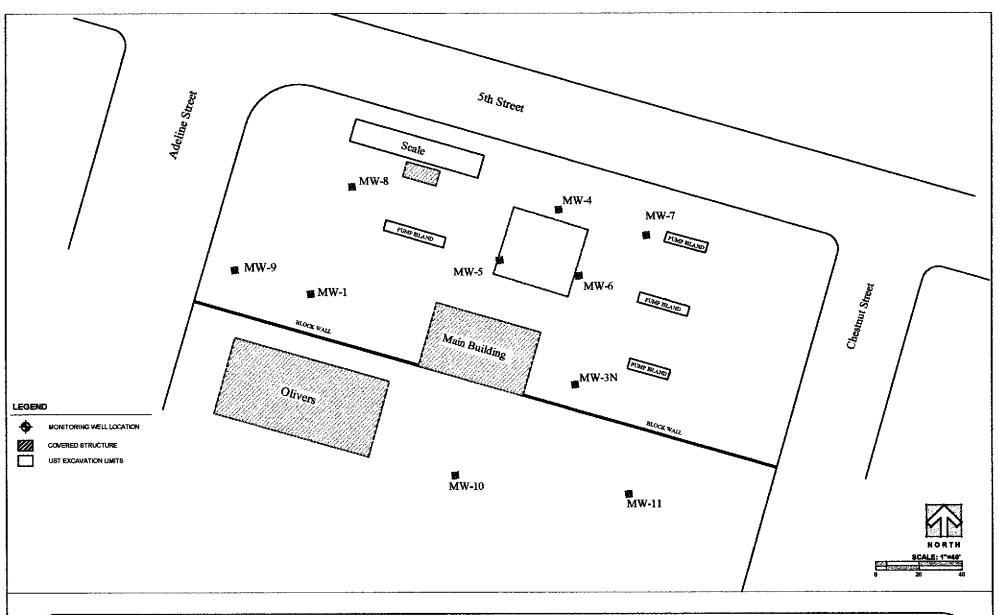
6940 Tremont Road LIC# 455752 Dixon, California 95620-9603 PH# (707) 693-2929 Fax# (707) 693-2922

Site Map

OAKLAND TRUCK STOP 1107 FIFTH STREET OAKLAND, CA Project #: 3628

Date: 06/18/02

Figure:

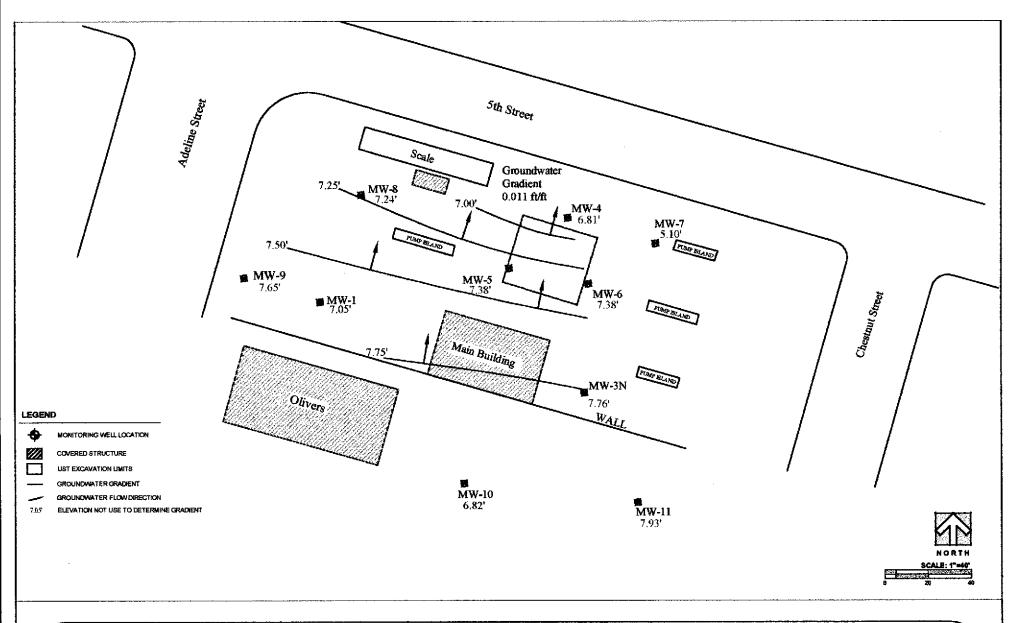




6940 Tremont Road LIC# 455752 Dixon, California 95620-9603 PH# (707) 693-2929 Fax# (707) 693-2922

SITE PLAN

Project #: 3628	Figure:
Date: 6/24/02	2
Scale:	





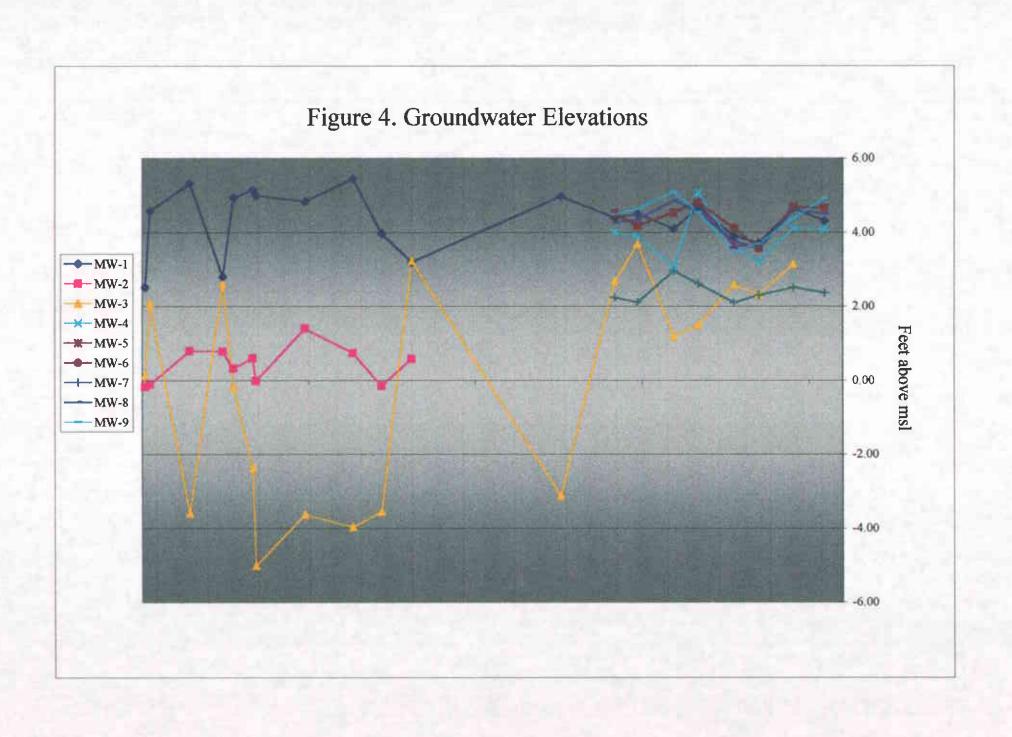
6940 Tremont Road LIC# 455752

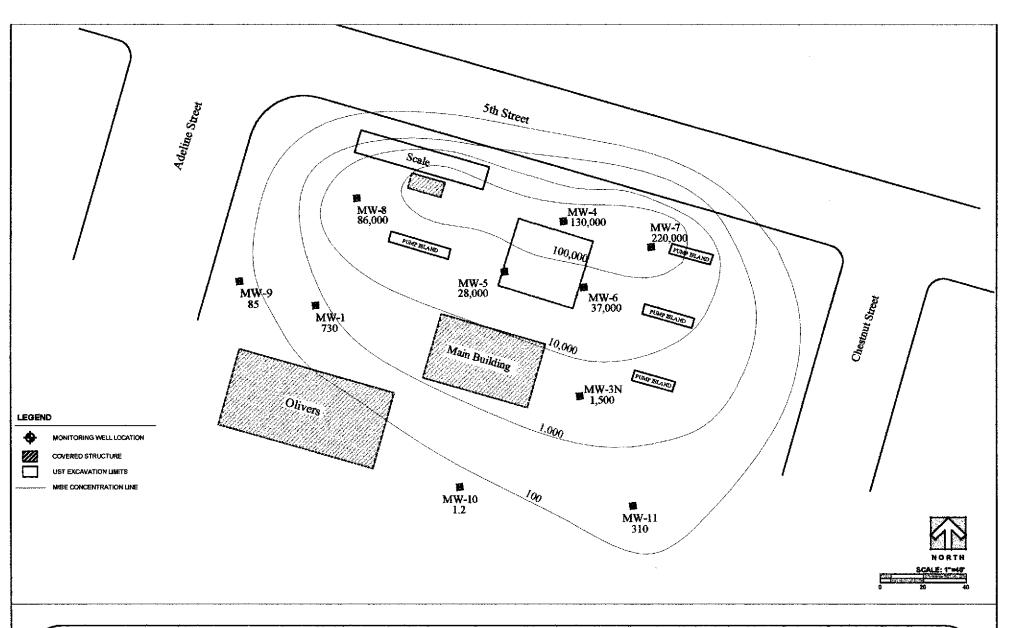
Dixon, California 95620-9603

PH# (707) 693-2929 Fax# (707) 693-2922

GROUNDWATER ELEVATIONS

Figure:
3
] <i>J</i>







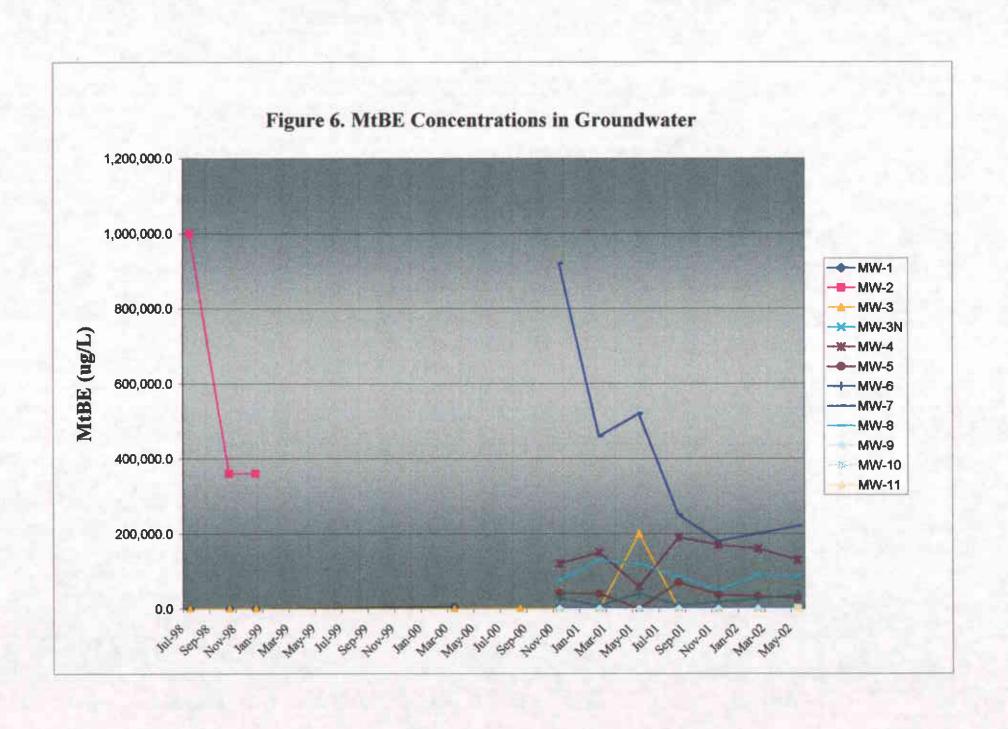
6940 Tremont Road LIC# 455752

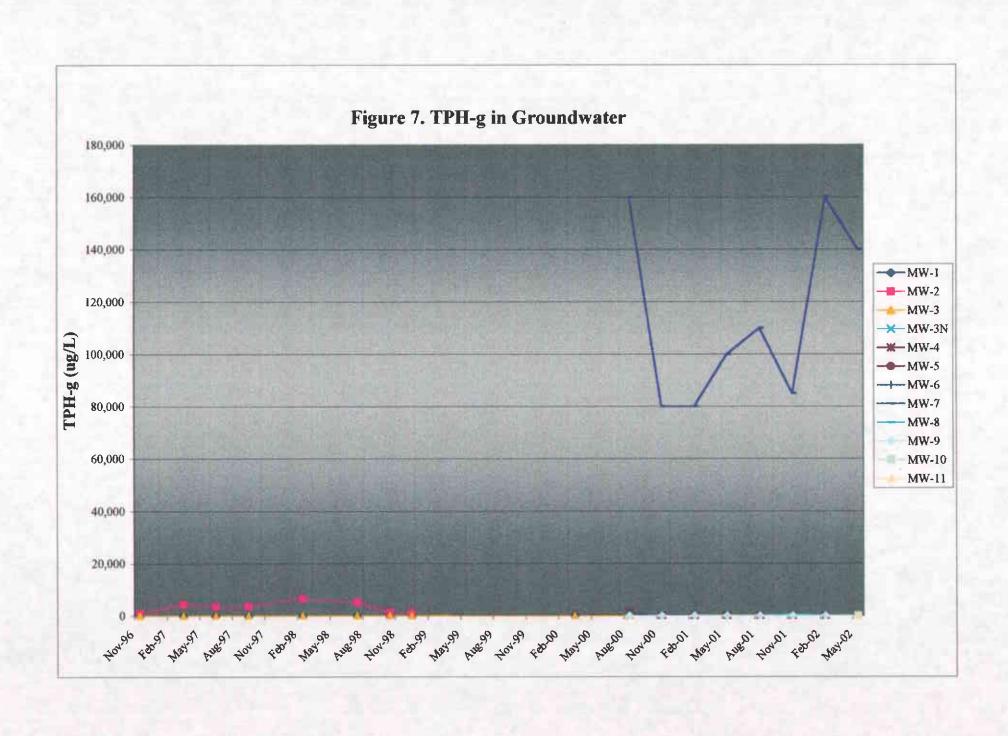
Dixon, California 95620-9603

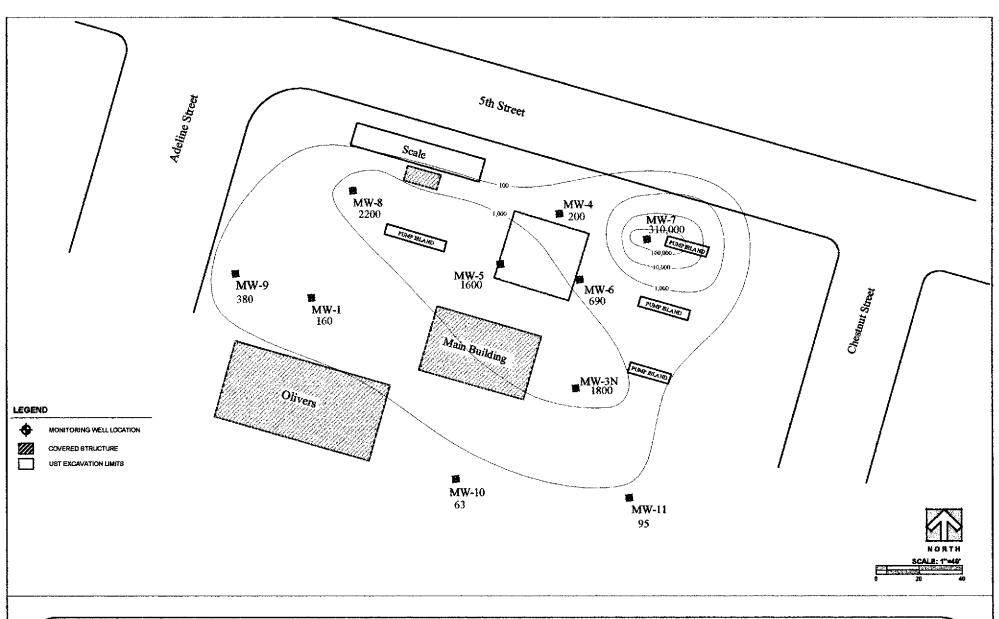
PH# (707) 693-2929 Fax# (707) 693-2922

MtBE Concentrations in Groundwater

Project #: 3628	Figure:
Date: 6/24/02	5
Scale:	









6940 Tremont Road LIC# 455752 Dixon, California 95620-9603 PH# (707) 693-2929 Fax# (707) 693-2922 TPH-d Concentrations in Groundwater

Project #: 3628	Figure:
Date: 6/24/02	R
Scale:	

APPENDIX A

APPENDIX A WELL PERMITS

APR-23-01 MON 09:02 AM ALAMEDA COUNTY 2WA RM299 FAX NG. 5187821939

9, 02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

Water resources section 319 Elyphret St. Rigward Cl 94544-1315 Phone (510) 610-5554 Fax (510)782-1339

DRILLING PERMIT APPLICATION FOR APPLICANT TO COMPLETE FOR OFFICE USE JOCATION OF PROJECT PERMIT NUMBER WELL MUMBER PERMIT CONDITIONS TENT Circled Permit Requirements Apply A CEVERAL 1. A people application chould be subquited an exta arrive at the ACPWA office five days prior to TPASION proposed stating data. Submit to ACPWA within 60 days after completion of permitted on I nel Department of Water Resources. Well Consideran Report. Fax Venoral Hierof 3. Pennit is void if project nor begun within 20 days of approval date B. WATER SUPPLY WELLS TPE OF PROJECT L. Minimum surface seal thickness is two inches of Well Construction sement grout placed by damia. Grosschnical Investigation Cathodis Protection ŋ 2. Minimum sed depth is 50 feet for municipal and Coneral Water Supply Industrial wells or 20 feet for distressic and first griton Ç Comomination Manitoding wells unless a laster depth is specially approved. Witti Destruction C. CROUNDWATER MONITORING WELLS hoposed water supply well. Use INCLUDING PIEZOMETERS New Domestia 1. Minimum surface seat dickness is two inches of Replatement Damepho Manicipal coment growt places by tremit. inn gation โกล้มรเกิดไ 2 Minimum scal depth for monitoring walls is the Öttar ŋ manimum depth pramicable or 20 feet. rilung method: D. GEOTECHMICAL Med Racmy Backful bara hole by tremie with coment grout or coment Air Asiary Cable grouvered mixture. Upper two-birec feet replaced in kind or with companied cuttings. ALLER'S HAME UEST E. CATHODIC Fill halo anode some with concrete placed by pemin. WELL DESTRUCTION—Affactured Processor Send a map of wark such a coparate purmit is required. RILLER'S LICENSE NO. for wells deeper than 45 feet. ELL PROJECTS G. SPECIAL CONDITIONS Drill Hate Distriptor Malmam Caring Diameter NOTE: One application must be submitted for each well or wall Doch 20 A destruction. Multiple borings on one application are acceptable Sart-ce Sest Deper Owner's Wall Number MU-3 for gentechnical and someonistion investigations. ECTECHNICAL PROJECTS regained to rodame! Maximum Fiole Diamater____ Depth___ ۸. 20/02 TEMATED STARTING DATE ITIMATED COMPLETION DATE APPROVED ietaby agree to comply with all impairments of this permit and Alanteca County Ordinance No. 72-63 TOLICANT'S SIGNATURE JEASE PRINT MAME

P. 04/07 頓可是

APR-23-01 MON 09:02 AM ALAYEDA COUNTY PHA RY238 FAX NO. E107821838

2, 02



Hole Diameter ____ la

TEMATED STARTING DATE

ALAMEDA COUNTY PUBLIC WORKS AGENCY

Water resources section 199 ELMONTAST FT. MAYWARD CA 345H-1195 PRIONE (\$13) \$10-\$554 F.LX (410)782-1979

DRILLING PERMIT	APPLICATION
FOR APPLICANT TO COMPLETE CONTION OF PROJECT	FOR OFFICE USE
CONTION OF PROJECT 1107 Fifth ST	WELL NUMBER WOL-0466
THENT BINEHAT DISTOILUTION INC.	PERMIT CONDITIONS Circled Parall Requirements Apply
Phone (101) 462-8011	A. CENERAL 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
ddress 6940 tremon Rd Plans (100 63-2927) Ty Divan 20 20 20 20 20 20 20 20 20 20 20 20 20	2. Pobmit to ACPWA within 60 days after completion of formitted original Department of Word Resources. Wall Completion Report. 3. Pennit is void if project and begun within 30 days of approval data. B. WATER SUPPLY WELLS
YPE OF PROJECT Well Constitution Cathodic Protection Witer Supply Monitoring Containing Containing	1. Minimum surface seet thickness to two irefree of search group placed by urmine. 2. Minimum seed deputs 50 feet for municipal and federated wells or 20 feet for dumentic and integration wells unless a least depth is specially approved. C. PROUNDWATER MONITORING WELLS
ROPOSED WATER SUPPLY WELL, USE New Domestic G Replacement Domestic G Manicipal G Intgalan G ladustrial D Other D	1. Minimum surface real chickness is two inches of connect group placed by tramic. 2. Minimum scal depth for monitoring wells is the minimum scale of the monitoring wells.
RULLING METHOD: Mud Rotory G Air Rotory G Auger Cable G Other G Auger RALLER'S NAME (L)F ST HEXMAT	D. GEOTECHNICAL Backfill bots hale by tremis with sement grout or sement groutend mixture. Upper two-three feat replaced in kind or with competed rankings. E. CATHODIC
RILLEA'S LICENSE NO. #554979	Fill hole anode zone with concrete placed by neight. F. WELL DESTRUCTION Send a map of work site. A sense of concrete in a contract of the c
Cuing Diameter in Depth 6 to Owner's Well Number	for wells desper than as feat. G. SPECIAL CONDITIONS NOTE: One application must be submitted for each well or well distriction. Multiple borings on one application are acceptable for generalized and contamination investigations.
Number of Barings Maximum	- 11 (see AMARCHED FISURE)

Rav.5-13-00

TIMATED COMPLETION DATE_ OEVOR99A rately agree to camply with all requirements of this partie and Alamada County Ordingnes No. 73-65. PHICANT'S SIGNATURE 4/18/02 WA CARS EAST PRINT NAME

Depth __ 5/8/02

PATE 4-23-02

P. G2

APR-23-01 MON C3:02 AM ALAMEDA COUNTY PWA RM239 FAX NO. 5107821938



EASE PRINT NAME TIM COOK

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 150 ELMHURST ST. RAYWARD CA. 94544-1395 CHONE \$101 678-5554

DRILLING PERMIT	APPLICATION
Foil applicant to complete	FOR OFFICE USE
ATTON OF PROJECT 1107 Fifth ST	PERMIT NUMBER 1412-0465
and the state of t	WILL NUMBER WALL TO LOS
CACLOR! CA	AFN
	B C VI + d C C C C C C C C C C C C C C C C C C
	PERNIT CONDITIONS Circled Formit Requirements Apply
RINGHOT DIOTOILATION INC.	
cas 125 Phone [101] 462-8011	A. CZVFRAL
UKIAN 23 94517	1. A permit application should be submitted so as to
	arrive to the ACPWA office five says prior to
ELEANT W. A CAME, INC	2 Submit to ACPWA within 60 days after completion of
Far 1707 103-2922	permitted ariginal Department of Water Retourned
125 Laggo Tremor Rd 7000 (101 143-2020)	WEN Completion Report,
DI Y84 75 75 20	1. Parmit is void if project hat begun which od days of superoral date
	G. WATER SUPPLY WELLS
e of project). Minimum surface teal thickness is two inches of
Construction Georgianian Investigation	coment grout placed by ormic.
thodic Protection D General D	2. Minimum real depth is 50 feet for municipal and Industrial wells or 20 feet for dismestic and integration
iter Supply C Contamination C	* Yell Wills 2 letter dents to tractable second a
onitoting Wall Destruction G	F-GROUNDWATER MONITORING MYLLE
PROSED WATER SUPPLY WELL USE	INCLUDING PIEZOMETERS
en Domestic G Replacement Daniugite 9	I. Minimum surface test thickness is two inches of coment grout placed by tremie.
faticipal C Intertion G dustrial D Other D	2 Minimum soni decch for monitoring wells to the
idussida) U Othar n	Maximum death aracleable or 20 fear
lling method:	D. GEOTECHNICAL
tua Natury (Air Ratary (Auger 💢	Backful bere hole by stemie with cement grout or commit group or commit group was three feet replaced in kind
acia O Other O	at which compacted surples .
LEAS NAME WEST HOZMAT	E. CATRODIC
Fr. Anna Anna Anna Anna Anna	Fill held anode zone with concrete placed by stemia. F. WELL DESTRUCTION
LLEA'S LICENSE NO. #554979	Sond a map of Work site. A reparate pormit is required
	for wells deeper than 45 feet.
LL PROJECTS	G. SPECIAL CONDITIONS
brill Hole Diarneterin. htsximum	NOTE: One application mun be submined for each well or well
resing Diameter 2 tn. Depth 15 A. urBico Scal Depth 6 A. Overer's Woll Number	CAS SUCCESS. ON CONTROL PARTY OF AN AREA MADE COMMENTED IN A COMMENT OF THE COMME
	of Researchmen) and confirmation investigations.
TECHNICAL PROJECTS · MW-10	(see Armehed fishe)
lumber of Barings Alaximum	Can will and a Content
ole Dianuer in. Depth h	, no.
MATER STARTING DATE 5/8/02	APPROVED DATE 4-29
MATER COMPLETION DATE 6 18/02	APPROVED AND DESCRIPTION

WACZAS

APR-23-01 ACH COIC2 AR ALAMEDA COUNTY PWA RM239 FAX NO. 8107621838

3, 02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

DRILLING PERMIT APPLICATION

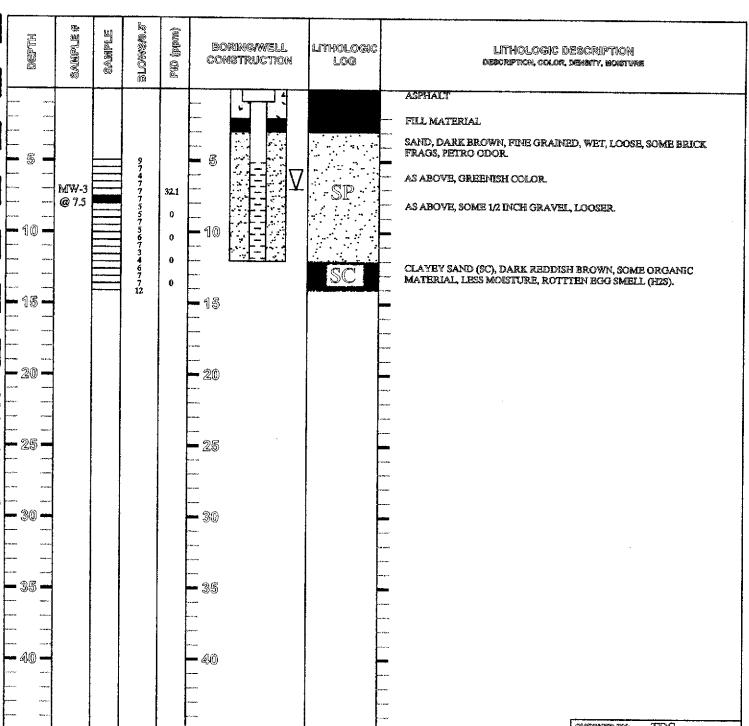
WATER RESOURCES SECTION

119 ELAUREST ST. HAYWARD CL 345 H-1395
PMONE (5/4) 570-5254
FAX (4/0)782-1939

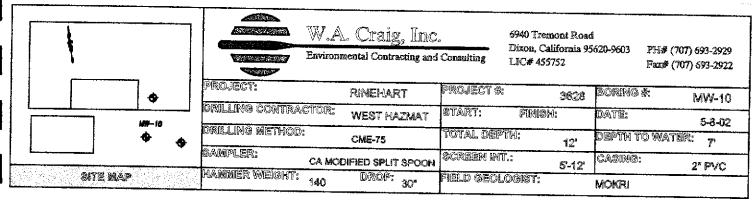
FOR ADVELCANT TO COMPLETE	FOR OFFICE USE
	11/17-70/16/1
CATTON OF PROJECT 1107 Fifth St	PERMIT NUMBER WELL CHOT
Martan CA	WELL NUMBER
	Y.S.V
	PERMIT CONDITIONS
ENT do a series	Circled Formit Requirements Apply
KINCHOTT DISTRIBUTION INC.	A CINERAL
133 1.0 Bex 125 Props (701) 462-POH	1. A permit application through he submitted so as to
1723 Prons (101) 462-8011	arrive at the ACPWA office five days prior to
M IP A NIT	Troposed starting date.
W. A CAMIS, INC	2 Submit to ACPWA within 50 days after completion of
01)63-2422	permitted original Department of Water Resourcest- Well Completion Report.
10940 Tremont Rd Page 101 893-2929	3. Pennit is void if project not begun within 90 days of
- 11 XON 29 95020	ಸರ್ಧೀರ್ಥನೆ ರಸಚಿ
• -	H. WATER SUPPLY WELLS
e of project). Mindmum surface seal thickness is two inches of
Consusción Genethrical Inventación	coment group placed by comic. 2. Minimum seal dopth is 50 fact for municipal and
ishadis Protection - I General II	निर्मापनी भिन्नीहरू के देवे विकास for absenced and independen
ster Supply C Contamination C Politoting Wall Description C	Wells units a letter depth is the daily increased.
onitoting Wall Destruction G	C. CROUNDWATER MONITORING WELLS
Posed water supply well, use	I. Minimum surface swall chickness is two inches of
Yem Domestic I Replacement Domestic I	Carners grout placed by teemin.
Uinleipal I frigation I neustrial I Other I	2 Minimum real death for monitoring wells to the
adustriat B Other 9	maximum depth procleable or 20 feet
illing method:	D. GEOTECHNICAL
Mind Retury Q Air Ratary G Auger	Backfill boto hale by acrain with cament grout or coment group and mixture. Upper two-three feet replaced in kind
Cable 0 Other 0	or with compacted surings.
ILLER'S NAME WEST HAZMAT	F. CATHODIC
	Fill hale acode zone with concrete placed by memia F. WELL DESTRUCTION
ILLER'S LICENSE NO. #554979	Send a map of work site. A reparate permit is required
The state of the s	for Wella devoer than 45 feet
LL PROJECTS	G. STECIAL CONDITIONS
Onli Hole Districter O in. Maximum	NOTE: One application must be submitted for each well or well
Caries Diameter 2 to Dear 15 6	
Surface Scal Depth B to Owner Well Klymber MW - 3N	ful gentechnical and contamination investigations.
OTECHNICAL PROJECTS	(See ATTACHED FIGURE)
Number of Busines Maximum	(SEE MINEUED (1901S)
Hole Dismeter da. Depth di	
TOMATED STARTING DATE 5/8/02	1/10
TIMATED COMPLETION DATE 15/18/02	APPROVED DATE 1-23
ereby agree to comply with all requirements of this partitional Alamena County Ordin	manes No. 12-63. / /
PLICANT'S SIGNATURE I'M COL DATE 4	119/02
FASE PRINT NAME I'M COOK WA COME RES	-15-00

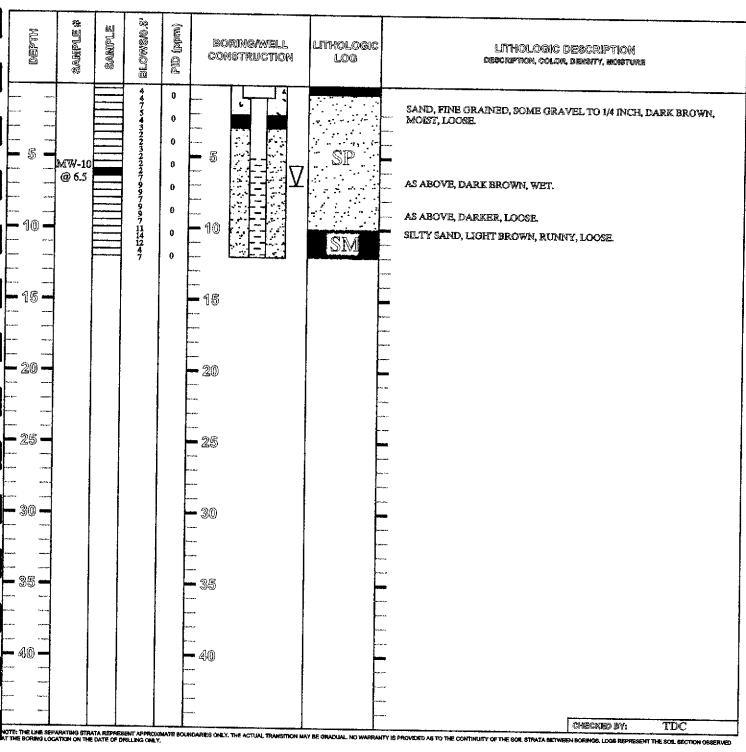
APPENDIX B BORING LOGS

	Environ:	a. Craig, Inc.		6940 Tremont Road Dixon, California 95 LIC# 455752	620-9603 PI	H# (707) 693-2929 3z# (707) 693-2922
₩ .W	PROJECT:	RINEHART	Project #:	3628	Boring #:	MW-3N
	drilling contractor:	WEST HAZMAT	START:	Finish:	date:	5-8-02
• •	drilling method:	CME-75	TOTAL DEP	TH: 14°	DEPTH TO	water: 7º
		DIFIED SPLIT SPOON	SCREEN INT	5'-12'	Casing:	2" PVC
site map	Hammer Weight: 140	DROP: 30"	field Geol	ogist:	Mokr!	



OTE: THE LINE SEPARATING STRATA REPRESENT APPROXIMATE SOUNDARIES ONLY. THE ACTUAL TRANSITION MAY BE GRADUAL NO WARRANTY IS PROVIDED AS TO THE CONTINUITY OF THE SOIL STRATA BETWEEN BORINGS. LOGS REPRESENT THE BOIL SECTION OBSERVED.





	Environs	Craig, Inc.	مجسنستنست	6940 Tremont Road Dixon, California 95 LIC# 455752	620-9603 I	PH# (707) 693-2929 Fax# (707) 693-2922
•	Project:	RINEHART	Project #:	3628	BORING #	MW-11
	drilling contractor:	WEST HAZMAT	START:		DATE:	5-8-02
•	drilling method:	CME-75	TOTAL DEP	28	Depth to	WATER: 7
		DIFIED SPLIT SPOCH	Screen in	5'-12'	Casing:	2° PVC
SITE MAP	Hammer Weight: 140	DROP: 30"	field ceol	.ÒGIST:	COOK / MC	OKRI

DEPTH	SAMPLE	Sample	BLOWSM.5	(ල්ල (ල්ලාන්)	Boring/Well Construction	LITHOLOGIC LOG	Lithologic description description, color, dessity, hoisture
5 -	MW-11 @ 7	W.S.	©T@ 3 4 8 4 102 6 101 1 8 12 12 12 12 12 12 12 12 12 12 12 12 12		- 5	SP SC	SAND, FINE GRAIN, DARK BROWN, W/BRICK FRAGS, MINOR GLASS, MOIST, LOOSE. AS ABOVE, WET AT 7 FEET BELOW GRADE. AS ABOVE, FINE GRAINED SAND, WET, W/ORGANICS, LOOSE AS ABOVE, HOO ORGANICS, GRAY TO GREENISH GRAY. AS ABOVE, BLACK TO GRAY TO GREENISH GRAY. CLAYEY SAND (SC), FINE GRAIN, REDDISH OXIDIZED, FIRM, MOIST, NOT WET (ALSO AT 17-17.5 FBG). SAND, FINE GRAINED, DARK GRAY, WET, LOOSE. SAND, FINE GRAINED, LOOSE, VARIES FROM DARK GRAY TO REDDISH OXIDIZED, WET. AS ABOVE, W/SOME CLAYEY SAND, RUNNY, LOOSE, TAN TO REDDISH. AS ABOVE, LIGHT BROWN. AS ABOVE, GRADING TO MEDIUM GRAIN SAND, DENSER. AS ABOVE, FINE GRAINED SAND, LOOSE.
40 -					40		
NOTE: THE LINE SE AT THE BORNS LO	PARATING STR CATION ON TH	KATA REPRI	esent appro druking onl	XIMAYE BOX	UNDARIES CALY, THE ACTUAL TRANSFROM W	MY BE GRADUAL, NO WARRA	CHECKED BY: TIME MY IS PROVIDED AS TO THE CONTINUITY OF THE SOIL STRATA BETWEEN BORINGS, LOGS REPRESENT THE SOIL RECTION OSSERVED.

APPENDIX C LABORATORY ANALYTICAL REPORTS SOIL ANALYSES



McCampbell Analytical Inc.

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

W. A. Craig Inc.	Client Project ID: #3628 Rine Hart	Date Sampled: 05/08/02		
6940 Tremont Road		Date Received: 05/08/02		
Dixon, CA 95620-9603	Client Contact: Tim Cook	Date Reported: 05/15/02		
	Client P.O.:	Date Completed: 05/15/02		

May 15, 2002

Dear Tim:

Enclosed are:

- 1). the results of 3 samples from your #3628 Rine Hart project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

	McCampbe	ell Ana	alytical	Inc
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		тапристення и пападатьствироси.сон			
W. A. Craig Inc.	Client Project ID: #3628 Rine Hart	Date Sampled: 05/08/02			
6940 Tremont Road		Date Received: 05/08/02			
Dixon, CA 95620-9603	Client Contact: Tim Cook	Date Extracted: 05/08/02			
	Client P.O.;	Date Analyzed: 05/09/02-05/10/02			

Extraction met	IOC: 5W3035				methods: SW802	1B/8015Cm			Work Orde	er: 0205
Lab (D)	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% S
001A	MW-10	S	ND	ND	ND	ND	ND	ND	1	110
002A	MW-11	S	ND	ND	ND	ND	ND	ND	1	10
003A	MW-3N	s	2.3,g	0.097	ND	ND	ND	0.0072	1	10
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eporting Lit	nit for DF =1; t detected at or	w	50	5.0	0.5	0.5	0.5	0.5	ug	/ſ.
above the rep	orting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/	

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

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); 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) no recognizable pattern.

McC	Campbell Analy	rtical Inc.	16	110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com					
W. A. Craig I	Inc.	Client Project II): #3628 Rine Hart	Date Sampled:	05/08/02	_=			
6940 Tremon	t Road			Date Received:	05/08/02				
Dixon, CA 95	620-9603	Client Contact:	Γim Cook	Date Extracted:	05/08/02		<u> </u>		
<u> </u>	Client P.O.:			Date Analyzed:	05/09/02-	05/10/	/02		
ixtraction method: S	D isw3550C	esel Range (C10-23	Extractable Hydrocarb	ons as Diesel*			·		
Lab ID	Client ID	Matrix	TPH(i)	Wo	rk Order: DF	0205117 % SS		
A100	MW-10	S	20,f				<u> </u>		
002A	MW-11	S	29,f			<u>.</u> 5	92.3		
003A	MW-3N	S	30,a			1	92.7		
							92.7		
	·								
		-				<u></u>			
						+			
				·					
					_				
Reporting Li	mit for DF =1;	W	NA						
above the n	ot detected at or eporting limit	S				NA			

⁺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.



mg/Kg

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

[#] 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.



^{*} water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

⁽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

McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560

				http://w	ww.niccampbell.com E-mail: ma	925-798-1622 iin@mccampbell.com	1
W. A. Craig I	nc.	Client Pr	roject ID: #36	28 Rine Hart	Date Sampled: (05/08/02	
6940 Tremont Road Dixon, CA 95620-9603					Date Received: (05/08/02	
		Client Co	ontact: Tim Co	ook	Date Extracted: (Date Extracted: 05/08/02	
	DIXOII, CA 73020-7003		O.:		Date Analyzed: 0)5/09/02	
				Lead*		······································	
Extraction method: 5			Analytica	al methods: 6010C		Work Order:	0205117
Lab ID	Client ID	Matrix	Extraction		Lead	DF	% SS
001A	MW-10	s	TTLC		2000	1	106
002A	MW-11	s	TTLC		79	1	104
003A	MW-3N	S	TTLC		12	1	102
	·						
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ND means not detected at or above the reporting limit	S	TILC	NA	mg/L
			3.0	mg/Kg
water samples are reported in mg/L, soil	/sludge/solids/	samples in mg/k	g, wipes in ug/wipe and all TCLP / STLC / DISTLC / SPLP e	xtracts in mg/L.

TTLC

ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

W

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water-Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solids/oil/ wipes - As, Se, Tl); 7471B (Hg).

DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.



NA

Reporting Limit for DF =1;

QC REPORT

EPA 8015m + 8020

Date: 05/09/02	5/09/02 Extraction: EPA				Matrix: Soil		
Compound	Concentration: mg/kg				%Recovery		
	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
SampleID: 50902					Instrumer	<u>ıt</u> GC	-12
Surrogate1	ND	104.000	106.000	100.00	104	106	1.9
Xylenes	ND	0.320	0.320	0.30	107	107	0.0
Ethylbenzene	ND	0.110	0.110	0.10	110	110	0.0
Toluene	ND	0.110	0.110	0.10	110	110	0.0
Benzene	ND	0.100	0.100	0.10	100	100	0.0
MTBE	ND	0.082	0.083	0.10	82	83	1.2
TPH (gas)	ND	1.045	1.044	1.00	104	104	0.1

% Rc covery =
$$\frac{(MS-Sample)}{AmountSpiked} \cdot 100$$

RPD= $\frac{(MS-MSD)}{(MS+MSD)} \cdot 2\cdot 100$

QC REPORT

EPA 8015m + 8020

Date: 05/09/02	Extractio	n: EPA	5030		Matrix:	Soil	
C	Concentration: mg/kg				%Rec	%Recovery	
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
SampleID: 50902					instrume	nt GC-	3 A
Surrogate1	ND	104.000	104.000	100.00	104	104	0.0
TPH (diesel)	ND	150.000	150.000	150.00	100	100	0.0

QC REPORT

VOCs (EPA 8240/8260)

Date: 05/15/02	Extraction	Extraction: EPA 5030				Matrix: Soil		
		Concen	tration:	ug/kg	%Rec	%Recovery		
Compound	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD	
SampleID: 51502					Instrumen	<u>it</u> GC	-10	
Surrogate	ND	107.0	102.0	100.00	107	102	4.8	
tert-Amyl Methyl Ether	ND	47.0	41.5	50.00	94	83	12.4	
Methyl tert-Butyl Ether	ND	49.5	43.0	50.00	99	86	14.1	
Ethyl tert-Butyl Ether	ND	55.0	49.5	50.00	110	99	10.5	
Di-isopropyl Ether	ND	55.0	50.0	50.00	110	100	9.5	

$$\% \text{ Re covery} = \frac{\left(MS - Sample \right)}{AmountSpiked} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

QC REPORT

Date: 05/09/02	Extraction: TTLC		Matrix: Soil	
Compound	Concent	%Recovery		
Compound	Sample MS	MSD Amount Spiked	MS MSD	RPD
SampleID: 50902			Instrument P-1	AA
Lead	ND 4.9	4.9 5.00	98 98	0.0

ZWr

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7

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TURN AROUND TIME PACHECO, CA 94553-5560 RUSH 24 HOUR 48 HOUR 5 DAY Telephone: (925) 798-1620 Fax: (925) 798-1622 Report To: Tim Cook Bill To: Analysis Request Other Comments Company: W. A. Craig Total Petroleum Oil & Grease (5520 E&F/B&F) 6940 Tremont Road BTEX & TPH as Gas (602/8020 + 8015)/ MTBE Dixon, CA 95620-9603 PAH's / PNA's by EPA 625 / 8270 / 8310 Fax: (707),693-2922 Total Petroleum Hydrocarbons (418.1) Tele: (707) 693-2929 Project #: 3628 Project Name: Rine Heart BTEX ONLY (EPA 602 / 8020) Project Location: 1107 5th st, Oakland, CA EPA 608 / 8080 PCB's ONLY 9 Lead (7240/7421/239.2/6010) Sampler Signature: EPA 624 / 8240 / 8260L METHOD TPH as Diesel (8015) SAMPLING MATRIX PRESERVED Type Containers CAM-17 Metals # Containers EPA 601 / 8010 EPA 625 / 8270 EPA 608 / 8080 LUFT 5 Metals SAMPLE ID LOCATION Air Sludge Other Time Date Water Soil Ice HCI HNO₃ Other 2 5/8 K MW-10 X. ≠ 59 encora ጽ 5/8 5 ALW-11 Х X 5/8 MW 3N ¥ Relinquished By: Date: Time: Remarks: 5:00 Date: Relinquished By: Time:/

APPENDIX D WELL DEVELOPMENT LOGS

Project	t Name <u></u>	· rhich ligaria		_ Job N	10. 3628	Date Finite Weather Charling
le	er Clum					The state of the s
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Well Da	ata		D?	inglo b	mit.	
	oth of Well	·	Casina	Time Man		Well Number 1960-11
Method o	of Purging Well_		Casing c	Elevation		Depth to Water Groundwater Florenties
Dasing Vi	/olume		Volume !	Factors:	2°=0 168d/	Method of Sampling Well "ft; 4"=0.653g/ft; 6"=1.47g/ft; 8"=2.61g/ft; 12"=5.88g/ft
epth to	Water Prior to S	Sampling			# -0.100g.	11, 4 -0.000g/ii, 0 =1.4/g/ii; 8"=2.61g/ii; 12"=5.88g/ii
	arameters		ms	<u> </u>	1210	
Time		Temperature	SP	рH	Turbidity	Comments (color/odor/sheer/product etc.)
	Begin purging			1		(one / one
7:30		30.€	2.75		8 श्रम्भारम	NOS
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12,00	15	70.0	7-5	2.37	3	Nos
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tal Dept			Casing Ele	ting		Well Number mw-10
	Purging Well		asing Ele	Nancu	L	Depth to Water Groundwater Elevation Method of Sampling Well
asing Vol	lume		/olume Fa	ectors: 2'		Method of Sampling Well 4"=0.653g/ft; 6"=1.47g/ft; 8"=2.61g/ft; 12"=5.88g/ft
epth to W	Vater Prior to Sar	mpling	Olding		~0. 100gr.,	4 =0.0039/π; 0 =1.4/g/π; 8"=2.61g/π; 12"=5.88g/π
	rameters		115			
	Volume (gal) T	[emperature]	SP	рН	Turbidity C	Comments (color/odor/sheen/product etc.)
	Begin purging w	Well		 	100000	Sec
10.30	5	17:1	755	7.31	4	Black color NOS
·	/Ø	11.0	755	7.35	7	" " Nel
) S [16.9	253	7.34	3	Nos

mments:

WELL DEVELOPMENT AND SAMPLING LOG Project Name Job No. 3628 Date B/13/07 Weather West / Warn ier ___ Prelonus-T Well Data Well Number MW -3N Total Depth of Well Casing Elevation Depth to Water Groundwater Elevation viethed of Purging Well Method of Sampling Well Volume Factors: 2"=0.166g/ft; 4"=0.653g/ft; 6"=1.47g/ft; 8"=2.61g/ft; 12"=5.88g/ft Casing Volume_ epth to Water Prior to Sampling Field Parameters Mis Time Voiume (gai) Temperature Turbidity | Comments (color/odor/sheen/product etc.) рΗ Begin purging weil 20.4 2.义生 7,840 NOS NOS, Box 12+ but insur, tempular off. 21.5 26 7113

Slow Nechange < 16/15min

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ell Dat						Well Nu	mber	
thod of	h of Well Purging Well_		Casing El	evation		Depth to Water	Groundwater Elevation	
	lume_ Vater Prior to S	ampling	Volume F	Depth to Water Groundwater Elevation				
id Pa	rameters			····			·	
Time		Temperature	SP	рН	Turbidity	Comments (color/odo)	r/sheer/product etc.)	
	Begin purging	Weil	<u> </u>					
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nments	•							
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W.A. Craig Inc., Dixon, California (707)693-2929

APPENDIX E GROUNDWATER SAMPLING LOGS

le	Name Ri	nough	#*************************************	Jcb	No. 3624	Date 5/20/07	Weather Whitehas
			•				nan
Well Da				_		Mal	
Total Dep	oth of Well		Casing	Elevatio	n	Death to Water 3	Number MUSIN
viethod of	f Purging Well	Bailer				Method of Sample	9 Groundwater Elevation ing Weil Bailer
Casing Vo		A	_ Volume	Factors	: 2°=0.166	/ft; 4 =0.653g/ft; 6	ing Well
	Water Prior to	Sampling				purge 40	0 -2.0 g/L 12 = 5.88g/R
Time	arameters	1-	195	·			
Line) Temperature	SP	pН	Turbidit	Comments (color	/odor/sheers/product etc.)
<u> </u>	Begin purgin						oddinion sproduct etc.)
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. 14				5 100	Re large	Tunp	·5/my/c 20.6°C
				5 10w	Re larg	Tunp	20.6°C
				Slow	Re larg		
tal Depth	of Well					Well N	lumber Miss
tal Depth thod of P	of Well_ Purging Well_	13-11c	Casing Ele	vation_		Well N Depth to Water 3.7	umber Away Groundwater Elevation
ising Volu	of Well Purging Well ime_	Bala	Casing Ele	vation_		Well N Depth to Water 3.7	umber Away Groundwater Elevation
tal Depth ethod of P sing Volu pth to Wa	of Well_ Purging Well_ ume_ ater Prior to Sa	Bala	Casing Ele	vation_		Well N Depth to Water 多元 Method of Sampling ; 4"=0.653g/ft; 6"=1	umber /4 いー\ Groundwater Elevation 1 分の / 4 ー 1
tal Depth ethod of P sing Volu pth to Wa eth P ar	of Well_ Purging Well_ ume_ ater Prior to Sa ameters	IS all	Casing Ele	vation_	2"=0.166g/fi	Well N Depth to Water 3.7	umber /4 いー\ Groundwater Elevation 1 分の / 4 ー 1
tal Depth ethod of P sing Volu pth to Wa edd P ar Time	of Well_ Purging Well_ ume_ ater Prior to Sa ameters Volume (gal) [1	IS ail (C)	Casing Ele Volume Fa	evation_ ctors: :	2"=0.166g/fl	Well N Depth to Water 3.3 Method of Sampling ; 4"=0.653g/ft; 6"=1	lumber かいい -1 Groundwater Elevation Well るっしゃ -47g/ft; 8"=2.61g/ft; 12"=5.88g/ft 3 こ
tal Depthethod of Paing Volupth to Ward Para	of Well_ Purging Well_ ume_ ater Prior to Sa ameters	IS at larger and the	Casing Ele /olume Fa 	evation_ ctors: :	2"=0.166g/fl	Well N Depth to Water 3.3 Method of Sampling ; 4"=0.653g/ft; 6"=1	umber Aルー - Groundwater Elevation Well 30 / 4- 47g/ft; 8*=2.61g/ft: 12*=5.88g/ft
tal Depth ethod of P sing Volu pth to Wa old P ar Time	of Well_ Purging Well_ ume_ ater Prior to Sa ameters Volume (gal) [1	IS mil (C)	Casing Ele /olume Fa SP ५।ऽ	ctors:	2"=0.166g/fl	Well N Depth to Water 3.7 Method of Sampling 4"=0.653g/ft; 6"=1 (O) yal	lumber かいし 「Groundwater Elevation Well 「るっしょー .47g/ft; 8"=2.61g/ft; 12"=5.88g/ft らこ。
tal Depthethod of Paing Volupth to Ward Para	of Well_ Purging Well_ ime_ ater Prior to Sa ameters Volume (gal) Tegin purging v	Temperature (8,4)	Casing Ele	ctors:	2"=0.166g/fl CO Turbidity 4(7,4	Well N Depth to Water 3.7 Method of Sampling 4"=0.653g/ft; 6"=1 (O) yal	lumber かいい -1 Groundwater Elevation Well るっ/ィー .47g/ft; 8*=2.61g/ft; 12*=5.88g/ft 3 こ
tal Depthethod of Paing Volupth to Ward Para	of Well_ Purging Well_ ume_ ater Prior to Sa ameters Volume (gal) [1	IS mil (C)	Casing Ele /olume Fa SP ५।ऽ	ctors:	2"=0.166g/fl	Well N Depth to Water 3.7 Method of Sampling 4"=0.653g/ft; 6"=1 (O) yal	lumber かいし 「Groundwater Elevation Well 「るっしょー .47g/ft; 8"=2.61g/ft; 12"=5.88g/ft らこ。
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tal Depth ethod of P sing Volu pth to Wa etd P ar Time	of Well_ Purging Well_ ime_ ater Prior to Sa ameters Volume (gal) Tegin purging v	Temperature (8,4)	Casing Ele	ctors:	2"=0.166g/fl CO Turbidity 4(7,4	Well N Depth to Water 3.7 Method of Sampling 4"=0.653g/ft; 6"=1 (O) yal	lumber かいし 「Groundwater Elevation Well 「るっしょー 47g/ft; 8"=2.61g/ft; 12"=5.88g/ft こし lor/sheen/product etc.)
tal Depth ethod of P sing Volu pth to Wa old P ar Time	of Well_ Purging Well_ ime_ ater Prior to Sa ameters Volume (gal) Tegin purging v	Temperature (8,4)	Casing Ele	ctors:	2"=0.166g/fl CO Turbidity 4(7,4	Well N Depth to Water 3.7 Method of Sampling 4"=0.653g/ft; 6"=1 (O) yal	lumber かいし 「Groundwater Elevation Well 「るっしょー .47g/ft; 8"=2.61g/ft; 12"=5.88g/ft シ こ
tal Depth ethod of Prising Volupth to Ward Para	of Well_ Purging Well_ ime_ ater Prior to Sa ameters Volume (gal) Tegin purging v	Temperature (8,4)	Casing Ele	ctors:	2"=0.166g/fl CO Turbidity 4(7,4	Well N Depth to Water 3:7 Method of Sampling , 4"=0.653g/ft; 6"=1 (PUrgle 7:7 Comments (color/od NOS 972	Jumber Alway Groundwater Elevation Well Bole .47g/ft; 8*=2.61g/ft; 12*=5.88g/ft 3 2. lor/sheer/product etc.)
tal Depth ethod of Prising Volupth to Ward Para	of Well_ Purging Well_ ime_ ater Prior to Sa ameters Volume (gal) Tegin purging v	Temperature (8,4)	Casing Ele	ctors:	2"=0.166g/fl CO Turbidity 4(7,4	Well N Depth to Water 3:7 Method of Sampling , 4"=0.653g/ft; 6"=1 (PUrgle 7:7 Comments (color/od NOS 972	lumber かいし 「Groundwater Elevation Well 「るっしょー .47g/ft; 8"=2.61g/ft; 12"=5.88g/ft らこ。

W.A. Craig Inc., Dixon, California (707)693-2929

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Project	Name	Rinehart		Job N	40. 362X	_Date <u>5/20/02</u> _	Weather Rain
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Weil Da		·				Well No	imber MV.5
	th of Well f Purging Well	8 0 1 7	Casing E	Elevation		Depth to Water 2.%	Groundwater Elevation
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	Nater Prior to	Sampling	volume /	ractors:	2°=0.166g/	ft; 4"=0.653g/ft; 6"=1.4	47g/ft; 8"=2.81g/ft; 12"=5.88g/ft
	rameters					ource 8.5	
Time		f) Temperature	SP SP	На	Turbidity	Commonte (polocie de	
1:30	Begin purgir		' ~		I di Didity	Comments (color/odc	x/sheer/product etc.)
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	Purging Well_	TZAGLOC	Casing Ele	svation_		Depth to Water 5.65	Groundwater Elevation
asing Volu	lime	IS at viv	Volume Es	otore: 2	 !*=0 166a/ft	Method of Sampling W	/ell
	ater Prior to S	Sampling	AAIMING	ICIOI3. A	٥. ١٠٠٠ي	4-0.053911; 6=1.47	длт; в"=2.61длт; 12"=э.88д/п
	rameters		A . 1				
		Temperature	SP	pН	Turbidity	Comments (color/odor/	ehaan/nonduct atc.)
	Begin purging	well					sileer product acc.,
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Service - Alle -		1911	3.85	6.86	138.4	34 C (+	· Dlack color
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otal Der	pth of Well		Casing	Elevation	n	Well Number MW.6 Depth to Water 3. 24 Groundwater Elevation
≀lethod o Casing V	of Purging Well_	T3 gile			•	Method of Sampling Well Boyle
	Water Prior to S	Samullana.	_ Volume	Factors:	2"=0.166g	/ft; 4=0.653g/ft; 6=1.47g/ft; 8=2.61g/ft; 12=5.88g/ft
	arameters	Samping				701968.3
Time		Temperature	SP	- ALL	Total att.	
	Begin purging	well	٥٢	PH	Turbidity	Comments (color/odor/sheer/product etc.)
S ()	3	22.0	(3×1	7,17	335.1	Somodo No Slen
56 - Paraghannagan - April - A	6	22.5	1223	7,15		John Book No Sten
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-II Dat						6.59
ell Dat	h of Well		-			Well Number Mw-7
		Bailer	Casing Ele	evation_		Depth to Water 5 5 Groundwater Elevation
sing Volu	ume		/oluma Es			MelDod of Sarphing Wall 15 A. 154
	later Prior to Sar	mpling	Viuttie ra	ICIOSS, Z	z°≃u, rbogzic,	4"=0.653g/ft; 6"=1.47g/ft; 8"=2.61g/ft; 12"=5.88g/ft
	rameters					₹V-9 €-67
lime	Volume (gal) T	emperature	SP	pH	Turbidity (Comments (minuted asia)
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	6	19,9	1537	200	16.91	odor/ redish colo-fliphouse
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lei	(Clm	}	•				
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Casing vu	emulk	~	_ Volume F	actors:	2"=0.166g/	ft; 4"=0.653g/ft; 6"=1.4	47g/ft; 8"=2.61g/ft; 12"=5.88g/f
		sampling				QUIJE 8.8	<u> </u>
			MS 5		-	,	
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ising Volu	lume	V	Volume Fa	ctors: 2	"=0.166g/ft	4"=0.653a/ft; 6"=1.47	/a/ft: 8"=2 61a/ft: 12"=5.88a/ft
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Time	Volume (gai) 1	Temperature		ГЫН	Turbidity /	Comments (color/odor	/sheen/ncoduct atc.)
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ctal Depti	h of Well		Casing E	evation	<u> </u>	Depth to Water % 5	Groundwater Elevation
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asing Vol	ume		Volume F	actors:	2"=0.166g	ft; 4"=0.653g/ft; 6"=1.	479/ft; 8"=2.61g/ft; 12"=5.88g/ft
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Time	Volume (gal)		SP	PH	Turbidity	Comments (color/od	or/sheen/product etc.)
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al Depth	or vveii urging Well	Baily	Casing Ele	evation_		Depth to Water V	Groundwater Elevation
sing Volu		12 81198	Volume Fa	ctors: 1	 2"≈0 166 <i>α/</i> 8	Method of Sampling V	vell <u>) کے مرزوہ</u> 7g/ft; 8"=2.61g/ft; 12"=5.88g/ft
	ater Prior to Sa	mpling			L 0. 100gr.	- 2000gil	79/14 6 -2:019/14 12 -3:889/16 \$
ld Par	ameters						
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	oegin purging v				144.		
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W.A. Craig Inc., Dixon, California (707)693-2929

APPENDIX F LABORATORY ANALYTICAL REPORTS GROUNDWATER SAMPLES



McCampbell Analytical Inc.

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

W. A. Craig Inc.	Client Project ID: Rinehart #3628	Date Sampled: 05/20/02
6940 Tremont Road		Date Received: 05/20/02
Dixon, CA 95620-9603	Client Contact: Tim Cook	Date Reported: 05/29/02
	Client P.O.:	Date Completed: 05/30/02

May 30, 2002

Dear Tim:

Enclosed are:

- 1). the results of 10 samples from your Rinehart #3628 project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

McCamp	pell Analytical Inc.
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W. A. Craig Inc.	Client Project ID: Rinehart #3628	Date Sampled: 05/20/02
6940 Tremont Road		Date Received: 05/20/02
Dixon, CA 95620-9603	Client Contact: Tim Cook	Date Extracted: 05/24/02-05/29/02
	Client P.O.:	Date Analyzed: 05/24/02-05/29/02

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

	ethod: SW5030B			Analytical	methods: SW802	21B/8015Cm			Work Orde	er: 0205288
Lab ID	Client ID	Matrix	TPH(g)	МТВЕ	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	w	ND	570	ND	ND	ND	ND	l	102
002A	MW-3	w	ND,i	1100	ND	ND	ND	ND	1	101
003A	MW-4	w	ND<2500,i	98,000	ND<25	ND<25	ND<25	ND<25	50	103
004A	MW-5	w	ND<500	21,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	10	102
005A	MW-6	w	ND<620,i	25,000	ND<6.2	ND<6.2	ND<6.2	ND<6.2	12	105
006A	MW-7	w	140,000,a,h,i	180,000	24,000	21,000	3800	20,000	200	107
007A	MW-8	w	ND<1700	66,000	ND<17	ND<17	ND<17	ND<17	33	101
008A	MW-9	w	ND	79	ND	ND	ND	ND	1	112
009A	MW-10	w	ND	ND	1.0	ND	ND	ND	1	104
010A	MW-11	w	ND	260	1.5	3.0	ND	1.4	1	105
	<u></u>									
				-						
_										
	 ,	<u> </u>	,							
	Limit for DF =1; not detected at or	w	50	5.0	0.5	0.5	0.5	0.5	ug	/L
	eporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/	

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, and TCLP extracts in ug/L.

DF = dilution factor.

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); 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) no recognizable pattern; k) TPH pattern that does not appear to be derived from gasoline (aviation gas).



Mc(Tompholl Andr		110 2nd Avenue South, #D7,	Parhero CA 04552 5550			
Mc(Campbell Analy	rtical inc.	Telephone : 925-798-1620 http://www.mccampbell.com E-	D Fax: 925-798-1622	1		
W. A. Craig]	Inc.	Client Pro	ject ID: Rinehart #3628 Date Sampl				
6940 Tremont Road			Date Receiv	red: 05/20/02			
Dixon, CA 95	5620-9603	Client Cor	tact: Tim Cook Date Extrac	Date Extracted: 05/21/02			
		Client P.O	.: Date Analyz	zed: 05/21/02-05/22/	/02		
Extraction method:	D SW3510C	iesel Range (C	110-23) Extractable Hydrocarbons as Diesel* Analytical methods: SW8015C	Work Order	. 0205200		
Lab ID	Client ID	Matrix	TPH(d)	DF	% SS		
001B	MW-1	W	160,c	- 	91.4		
002B	MW-3	w	1800,a/m,i	ı	95.2		
003B	MW-4	w	200,c,í	1	92.0		
004B	MW-5	w	1600,c/m	1	92.5		
005B	MW-6	W	690,c/m,i	1	94.0		
006В	MW-7	W	310,000,d,b,h,i	100	#		
007B	MW-8	w	2200,a/m	1	88.7		
008B	MW-9	w	380,а/гп	1	88.9		
009B	MW-10	w	63,b.g		86.0		

ND means not detected at or	W	50	μg/L
above the reporting limit	5	NA	NA
* water and were a second			

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/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.



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[#] 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.

McCampbell Analytic	al fnc.		Telephone	nue South, #D7, Pacheco, C2 : 925-798-1620 Fax : 925 ampbeil.com E-mail man@	-798-1622	m					
W. A. Craig Inc.	Client Project II	D; Rinehart #36	28	Date Sampled: 05/	20/02						
6940 Tremont Road			1	Date Received: 05/	20/02						
Dixon, CA 95620-9603	Client Contact: Tim Cook Date Extracted: 05										
	Client P.O.:		I	Date Analyzed: 05/	24/02-05/3	0/02					
Extraction Method: SW5030B	An	Volatile Organ alytical Method: SW82	•	*	Work Ord	ler: 0205288					
Lab ID	0205288-001C	0205288-002C	0205288-0030	0205288-004C							
Client ID	MW-I	MW-3	MW-4	MW-5	Reporting	Limit for					
Matrix	W	W	W	w	DF	=1					
DF	20	50	3300	1000	S	W					
Compound		Cana	entration		ug/kg	μg/L					
Diisopropyl ether (DIPE)	ND<10	ND<25	ND<2500	ND<500	NA ,	0.5					
Ethyl tert-butyl ether (ETBE)	ND×10	ND<25	ND<2500	ND<500	NA	Ü.5					
Methyl-t-buryl ether (MTBE)	730	1500	130,000	28,000	NA	0.5					
tert-Amyl methyl ether (TAME)	ND<10	ND<25	ND<2500	ND<500	NA	υ. 5					
t-Butyl alcohol (TBA)	ND<100	ND<250	ND<25,000	ND<5000	NA	5.0					
Methanol	000,91>⊄N	ND<25,000	ND<2,500,000	ND<500,000	NA	500					
Ethanol	ND<1000	ND≤2500	ND<250,000	ND<50,000	NA	50					
1,2-Dibromoethane (EDB)	ND~10	ND<25	ND<2500	ND<500	NA	0.5					
1,2-Dichloroethane (1,2-DCA)	ND<10	ND<25	ND<2500	ND<500	NA	0.5					
	Surro	gate Recoverie	s (%)								

* water samples are reported in ug/L, soil and studge samples in ug/kg, wipes in ug/wipe and all TCLP/STLC/SPLP extracts in ug/L

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

(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 organie content

Comments

W. A. Craig Inc.	Client Project ID: Rinehart #3628	Date Sampled: 05/20/02					
6940 Tremont Road		Date Received: 05/20/02					
Dixon, CA 95620-9603	Client Contact: Tim Cook	Date Extracted: 05/24/02-05/30/02					
	Client P.O.:	Date Analyzed: 05/24/02-05/30/02					
Oxygenated Volatile Organics by GC/MS*							

	Client P.O.:			ate Analyzed: 05/	24/02-05/3	0/02			
Extraction Method: SW5030B		l Volatile Organ alytical Method: SW826	· ·		Work Ord	er: 020528			
Lab ID	0205288-005C	0205288-006C	0205288-007C	0205288-008C		01. 020326			
Client ID	Client ID MW-6 MW-7 MW-8 MW-9								
Matrix	W	W	W	w	DF	=1			
DF	DF 1000 10000 2000 5								
Compound		Conce	- 1	ug/kg	μg/L				
Diisopropyl ether (DIPE)	ND<500	ND<5000	ND<1000	ND<2.5	NA	0.5			
Ethyl tert-butyl ether (ETBE)	ND<500	ND<5000	ND<1000	ND<2.5	NA	0.5			
Methyl-t-butyl ether (MTBE)	37,000	220,000	86,000	85	NA	0.5			
tert-Amyl methyl ether (TAME)	ND<500	ND<5000	ND<1000	ND<2.5	NA	0.5			
-Butyl alcohol (TBA)	ND<5000	ND<50,000	ND<10,000	ND<25	NA	5			
Methanol	ND<500,000	ND<5,000,000	ND<1,000,000	ND<2500	NA	500			
EthanoI	ND<50,000	ND<500,000	ND<100,000	ND<250	NA	50			
,2-Dibromoethane (EDB)	ND<500	ND<5000	ND<1000	ND<2.5	NA NA	0.5			
1,2-Dichloroethane (1,2-DCA)	ND<500	ND<5000	ND<1000	ND<2.5	NA	0.5			
	Surro	gate Recoveries	(%)						
%SS	104	99.9	95.4	108					
Comments	i	h,i				·- · · · · · · · · · · · · · · · · · ·			

%SS	104	99.9	95.4	108	,,,
Comments	i	h,i			
				l	

^{*} water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L



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

⁽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

Matrix	W	W	Reporting DF	Limit for =1
DF	1	10	S	W
Compound		Concentration	ug/kg	μg/L
Diisopropyl ether (DIPE)	ND	ND<5.0	NA NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND<5.0	NA NA	0.5
Methyl-t-butyl ether (MTBE)	1.2	310	NA	0.5
tert-Amyl methyl ether (TAME)	ND	ND<5.0	NA NA	0.5
t-Butyl alcohol (TBA)	ND	ND<50	NA NA	5
Methanol	ND	ND<5000	NA NA	500
Ethanol	ND	ND<500	NA NA	50
1,2-Dibromoethane (EDB)	ND	ND<5.0	NA NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND<5.0	NA NA	0.5
	Suri	rogate Recoveries (%)		
%SS	108	108		
Comments				·

^{*} water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L



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

⁽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 SW8021B/8015Cm

BatchID: 1968

Matrix: W

WorkOrder: 0205288

EPA Method: SW802	1B/8015Cm E	xtraction:	SW50308	3	Ext. Date:	5/21/02	S	piked Samp	le ID: 0205	280-001A
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Compound	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	60	N/A	N/A	N/A	99.7	108	7.8	80	120
MTBE	N/A	10	N/A	N/A	N/A	87.6	93	6.0	80	120
Benzene	N/A	10	N/A	N/A	N/A	91.5	97.4	6.3	80	120
Toluene	N/A	10	N/A	N/A	N/A	95.8	103	7.0	80	120
Ethylbenzene	N/A	10	N/A	N/A	N/A	96.9	103	6.5	80	120
Xylenes	N/A	30	N/A	N/A	N/A	98.3	103	5.0	80	120
%SS	103	10	N/A	N/A	N/A	99.3	103	3.2	80	120

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.

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

% 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 their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyze relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

QC SUMMARY REPORT FOR SW8015C

BatchID: 1952

Matrix: W

WorkOrder: 0205288

EPA Method: SW8015C	E	xtraction:	SW35100	0	Ext. Date:	5/21/02	S	piked Samp	le ID: N/A	
Compound	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	102	102	0.031	70	130
%\$\$1	N/A	2500	N/A	N/A	N/A	95.9	96.5	0.70	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.

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

% 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.

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

QC SUMMARY REPORT FOR SW8260B

BatchID: 1955

Matrix: W

WorkOrder: 0205288

EPA Method: SW8260B	E	xtraction:	SW5030F	3	Ext. Date:	5/20/02	Spiked Sample ID: N/A							
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)				
Sempound	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High.				
Diisopropyl ether (DIPE)	N/A	10	N/A	N/A	N/A	111	112	0.93	70	130				
Ethyl tert-butyl ether (ETBE)	N/A	10	N/A	N/A	N/A	106	107	1.2	70	1.30				
Methyl-t-butyl ether (MTBE)	N/A	10	N/A	N/A	N/A	99.7	99.7	0.048	70	130				
tert-Amyl methyl ether (TAME)	N/A	10	N/A	N/A	N/A	101	102	0.73	70	130				
%SS	N/A	10	N/A	N/A	N/A	103	103	0.30	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.

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

% 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.

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

	McCAMPBELL ANALYTICAL INC.							CHAIN OF CUSTODY RECORD																											
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	CA 95620-9	603												8015Y MTBE		Grease (5520 E&F/B&F)						1		EPA 625 / 8270 / 8310							1		į		
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				Containers	Type Containers									14 14	Sci	들	le in	EPA 601 / 8010	>	EPA 608 / 8080	808	824(EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	742								
SAMPLE ID	LOCATION	Data	Time	tair	ä				u.		Ì			BTEX & TPH 45	۵	5	eg a	=	20	8/	80	141	15/	Æ	7	Ž.	240								
		Date	Time	2) ad	Water	==	_ -	Other	1	5	HNO,	Other	×	# H	el P	<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ξ	A Ø	A 6	A 62	A 62	H.s	Σ	11	D P	_							
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McCampbell Analytical Inc.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

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

WorkOrder: 0205288

Client:

W. A. Craig Inc. 6940 Tremont Road Dixon, CA 95620-9603 TEL: FAX: (707) 693-2929

ProjectNo:

(707) 693-2922 #3628; Rinehart

PO:

20-May-02

					[Rec	quested Tests		
Sample ID	ClientSampID	Matrix	Collection Date	Bottle	SW8015C	8021B/8015	SW8260B			1
0205288-001	MW-1	Water	5/20/02		В	A	С			
0205288-002	MW-3	Water	5/20/02	Ţ	В	A	С			
0205288-003	MW-4	Water	5/20/02		В	A	С		· · · · · · · · · · · · · · · · · · ·	
0205288-004	MW-5	Water	5/20/02		В	A	С			
0205288-005	MW-6	Water	5/20/02	·	В	Α	C			
0205288-006	MW-7	Water	5/20/02	1	В	Α	C			
0205288-007	MW-8	Water	5/20/02		В	Α	C			
0205288-008	MW-9	Water	5/20/02	1	В	Α	С			
0205288-009	MW-10	Water	5/20/02		В	A	С			
0205288-010	MW-11	Water	5/20/02		В	Α	С			

Comments:

Date/Time	Date/Time
Relinquished by:	Received by:
Relinquished by:	Received by:
Relinquished by:	Received by:

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.