

Alameda County

JUN 04 2004

Environmental Health

**SECOND QUARTER 2004
GROUNDWATER MONITORING
REPORT**

**TASK ORDER NUMBER 04-987901-VC
CONTRACT NUMBER 43A0078**

**SOUTH OAKLAND
MAINTENANCE STATION
1112 29th AVENUE
OAKLAND, CALIFORNIA**

Prepared for

**CALIFORNIA DEPARTMENT
OF TRANSPORTATION
District 4
111 GRAND AVENUE
Oakland, California**

Prepared by

**Professional Service Industries
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May 26, 2004
575-4G019

DEPARTMENT OF TRANSPORTATION

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203017

June 1, 2004
Mr. Amir Gholami
Alameda County Environmental Health Service
Environmental Protection
1131 Harbor Bay Pkwy; Suite 250
Alameda, California 94502-6577

Alameda County
JUN 04 2004
Environmental Health

SUBJECT: Fuel Leak Case RO0000397, 1112 29th Ave., Oakland, CA 94601, South Oakland Maintenance Facility

Dear Mr. Gholami:

Attached please find a copy of the second quarter 2004 Ground Water Monitoring Report for the above address. Our consultant, PSI Inc. recommends that based on relatively stable concentrations of the COCs at property, monitoring to be continued annually.

If you have any questions or require additional information, please contact Bahram Sazegar at (510) 286-5643.

For
RAY BOYER
District Branch Chief
Office of Environmental Engineering

B. Sazegar

Attachments

Cc: Rboyer, File

TABLE OF CONTENTS

STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION	i
1.0 INTRODUCTION	1
1.1 SITE DESCRIPTION AND HISTORY	1
2.0 GROUNDWATER MONITORING ACTIVITIES	4
2.1 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT	4
2.2 GROUNDWATER SAMPLING	4
2.3 LABORATORY ANALYSIS AND RESULTS	5
2.4 COMPARISON OF GROUNDWATER RESULTS WITH REGULATORY CRITERIA	5
3.0 SUMMARY AND CONCLUSIONS	7
4.0 RECOMEMENDATIONS	7

FIGURES

- FIGURE 1: SITE LOCATION MAP
- FIGURE 2: GROUNDWATER ELEVATION MAP - MAY 5, 2004
- FIGURE 3: MTBE CONCENTRATIONS IN GROUNDWATER - MAY 5, 2004

TABLES

- TABLE 1: GROUNDWATER ELEVATION DATA SUMMARY
- TABLE 2: GROUNDWATER ANALYTICAL DATA SUMMARY

APPENDICES

- APPENDIX A: GROUNDWATER PURGE LOGS
- APPENDIX B: LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS

STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATIONS

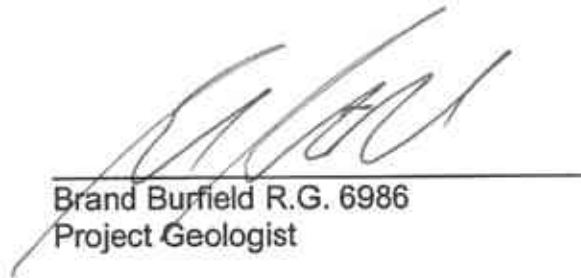
Information provided in Professional Services Industries, Inc., (PSI) report number 575-4G019 is intended exclusively for the California Department of Transportation (Caltrans) for the evaluation of groundwater contamination as it pertains to the subject site. PSI is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official view or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation. The professional services provided have been performed in accordance with practices generally accepted by other geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface investigations, there is no guarantee that the work conducted will identify any or all sources or locations of contamination.

This report is issued with the understanding that Caltrans is responsible for ensuring that the information contained in this report is brought to the attention of the appropriate regulatory agency. This report has been reviewed by a geologist who is registered in the State of California and whose signature and license number appear below.

Professional Service Industries, Inc.



Frank R. Poss
Senior Hydrogeologist



Brand Burfield R.G. 6986
Project Geologist

1.0 INTRODUCTION

This report summarizes the results of the Second Quarter 2004 groundwater monitoring and sampling activities conducted on May 5, 2004 at the South Oakland Maintenance Yard located at 1112 29th Avenue in Oakland, California. The location of the subject site is presented on Figure 1. The purpose of this project is to comply with quarterly sampling requirements for Alameda County Department of Environmental Health. The work was conducted under Contract 43A0078 and Task Order Number 04-987901-VU.

1.1 SITE DESCRIPTION AND HISTORY

The site is currently used as a maintenance station by Caltrans. The maintenance station includes offices, a repair shop, a sign shop, and several material storage bins. The entire property covers approximately two acres. The site is paved with asphalt and is relatively flat. The Alameda/Oakland Estuary is approximately 0.5 miles southwest of the site.

One 4,000-gallon diesel underground storage tank (UST) and one 2,000-gallon gasoline UST were removed from the site on March 11, 1997. The tank pit was over-excavated and soil samples were collected. Sidewall and bottom samples collected from the excavation contained concentrations of Total Petroleum Hydrocarbons as Gasoline (TPH-G), as high as 380 milligrams per kilogram (mg/kg), and Total Petroleum Hydrocarbons as Diesel (TPH-D), as high as 21 mg/kg. Concentrations of Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX), ranged from 0.010 to 48 mg/kg. Methyl Tertiary Butyl Ether (MTBE) concentrations ranged from 0.041 to 9.15 mg/kg. Groundwater samples were not collected (Caltrans, 1999).

On April 6 and 7, 1999, Boreholes B1 through B6 were drilled at the site. All of the boreholes were converted to 1.3-centimeter (cm) (0.5-inch) inside diameter temporary groundwater monitoring wells. Soil samples were collected from each borehole at depths of 1.5, 3, and 4.6 meters (m) (5, 10, and 15 feet) below ground surface (bgs).

Soil samples were analyzed for TPH-G and TPH-D by EPA method 8015M and for Volatile Organic Compounds (VOCs) by EPA Method 8260. TPH-G was detected in one soil sample (B6-3M at 13 mg/kg). None of the soil samples contained detectable concentrations of TPH-D. MTBE was the only VOC detected in the soil samples analyzed. MTBE was detected in the sample B5-1.5M at 0.16 mg/kg. No other soil sample contained a detectable concentration of MTBE (PSI, 1999).

TPH-G was detected in groundwater samples collected from temporary Wells WB3 (520 micrograms per liter ($\mu\text{g/l}$)) and WB4 (520 $\mu\text{g/l}$). No other groundwater samples collected contained detectable concentrations of TPH-G. No TPH-D was detected in any of the groundwater samples collected. Benzene was detected in the groundwater sample collected from Well WB3 (6.3 $\mu\text{g/l}$). MTBE was detected in the groundwater

samples collected from Well WB5 (6,600 µg/l) and WB6 (24 µg/l). Concentrations of other gasoline related compounds were detected in groundwater samples collected from Wells WB1, WB3, WB4, and WB5. Chloroform was detected in groundwater samples collected from Wells WB4 (2.4 µg/l) and WB6 (2.7 µg/l). Tetrachloroethene (synonym Perchloroethene [PCE]) was detected in the groundwater sample collected from Well WB6 (12 µg/l) (PSI, 1999).

On August 13, 1999, Boreholes B7 through B9 were drilled at the site. The boreholes were drilled along the property boundary. Results of the sampling indicated the following:

- TPH-G concentrations were detected in one soil sample [B9-15FT (0.54 mg/kg)] at the site.
- TPH-D was detected in groundwater sample WB7 (0.73 milligrams per liter (mg/l)).
- MTBE was detected in grab groundwater samples WB7 (5,600 µg/l) and WB8 (9.0 µg/l).

In June and July 2000, PSI completed a supplemental investigation, which included the installation of four monitoring wells at the site. The conclusions and recommendations of the investigation follow:

- None of the soil samples contained detectable concentrations of TPH-G, while TPH-D was detected in two soil samples at concentrations below regulatory concern.
- None of the soil samples contained detectable concentrations of VOCs with the exception of MTBE. The highest MTBE concentration detected was 0.52 mg/kg in soil sample B3-10FT. All of the MTBE concentrations detected were below first encountered groundwater.
- None of the groundwater samples contained detectable concentrations of TPH-D, while TPH-G was detected in two groundwater samples at a maximum concentration of 2.7 mg/l.
- VOCs were detected in the groundwater samples collected with only benzene and MTBE at concentrations greater than the State of California Primary Drinking Water Standard (PDWS) or Secondary Drinking Water Standard (SDWS). Based on the concentrations detected, MTBE is the primary contaminant of concern (COC).
- The report recommended continued groundwater monitoring and the installation of additional monitoring wells down gradient of monitoring well MW-3. Additionally, as TPH-D was not detected in the groundwater sample from monitoring well MW-3, the report recommended the analyses for TPH-D in this well be eliminated.

In August 2001, PSI completed a subsequent investigation into the lateral extent of groundwater contamination at the site. Three boreholes were drilled at the All Aboard Mini Storage facility located down gradient of the site. Soil and groundwater samples were collected from each of the boreholes. The samples were analyzed for TPH-G and VOCs. The conclusions and recommendations of the investigation follow:

- TPH-G and VOCs were not detected in any of the soil sample above laboratory detection limits.
- The results of the groundwater sampling conducted at the All-Aboard Mini-Storage indicates that MTBE impacted groundwater above the PDWS has not migrated down gradient onto the All-Aboard Mini-Storage site (downgradient site).
- TPH-G was detected in the groundwater samples collected from monitoring well MW-1 (1.7 mg/l).
- VOCs were detected in the groundwater samples from the site. However, only MTBE was detected in concentrations greater than the PDWS. Based on the concentrations detected in the groundwater at the site, the primary contaminant of concern (COC) is MTBE.
- Based on the results of the soil and groundwater sample analyses, PSI recommended no further investigation down-gradient of the South Oakland Maintenance Station.
- For complete details see PSI's Hazardous Waste Preliminary Site Investigation Report, South Oakland Maintenance Station dated September 27, 2001.

Further data was generated by GEOCON during quarterly groundwater sampling on March 27, 2001 and June 26, 2001. The additional groundwater elevation data and analytical results were added into Tables 1 and 2. GEOCON reported the following:

- On March 27, 2001 MW-3 had a TPH-G concentration of 5.2 mg/l. MTBE concentrations were: 29 µg/l for MW-1, 110 µg/l for MW-2, 5,500 µg/l in MW-3. MW-3 also had the following VOC concentrations: 220 µg/l of benzene, 5.9 µg/l of Toluene, 2.2 µg/l of Ethylbenzene, 12 µg/l of TAME, and 270 µg/l of Tert-butanol.
- On June 26, 2001 three wells had TPH-G levels that were above the laboratory detection limit. MW-1 had a TPH-G concentration of 0.24 µg/l, MW-2 had 0.11 µg/l, and MW-3 had 2.5 µg/l. MTBE was found in concentrations of 51 µg/l in MW-2 and 2,800 µg/l in MW-3. MW-3 also had the following VOC concentrations: a benzene concentration of 20 µg/l, 12 µg/l of TAME, and 230 µg/l of Tert-butanol.

2.0 GROUNDWATER MONITORING ACTIVITIES

2.1 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT

On May 5, 2004, static groundwater elevations were measured in wells MW-1 through MW-4 (Figure 2). The groundwater depths were measured using a groundwater interface probe. A summary of the depth-to-groundwater data collected during this monitoring event and previous monitoring events is presented in Table 1. Based on the groundwater data, the inferred groundwater flow direction beneath the site is to the southwest with a hydraulic gradient of 0.008 (Figure 2).

2.2 GROUNDWATER SAMPLING

Groundwater samples were collected from monitoring wells MW-1 through MW-4. Prior to the collection of groundwater samples, the monitoring wells were purged approximately three well volumes of water until pH, conductivity, and temperature stabilized. If purged to dryness, the wells were allowed to recover to at least 80 percent of their original static groundwater levels prior to sampling.

The following procedures for well monitoring, well purging, and water sampling were implemented while sampling the wells:

1. All non-dedicated equipment was washed prior to entering the well with an Alconox solution, followed by a deionized water rinse.
2. Prior to purging the wells, depth-to-water was measured using an Solinst groundwater interface probe to an accuracy of approximately 0.01 foot. The measurements were made to the top of the well casing on the north side.
3. Monitoring wells at the site were prepared for sampling by purging the well of approximately 3 well volumes of water using disposable Teflon bailers.
4. Water samples were collected with a single-use Teflon bailer after the well had been purged and water in the well had equilibrated to approximately 80 percent of the static water level. The water collected was immediately decanted into laboratory-supplied vials and bottles. The containers were overfilled, capped, labeled, and placed in a chilled cooler prior to delivery to the laboratory for analysis.

5. Chain-of-custody procedures, including chain-of-custody forms, were used to document water sample handling and transport from collection to delivery to the laboratory for analyses.
6. Groundwater samples were delivered to the State-certified hazardous waste laboratory within approximately 48-hours of collection.
7. Purged water was contained in a DOT approved 55-gallon drum. The drum was labeled with the contents, date, well number, client name, and project number.

The groundwater monitoring purge logs are presented in Appendix A.

2.3 LABORATORY ANALYSIS AND RESULTS

The groundwater samples were submitted for analyses to Basic Laboratory of Redding, California, a State of California certified hazardous waste analytical laboratory. The samples were analyzed for the following:

- EPA 8015 modified - TPH-G;
- EPA 8260 - Volatile Organic Compounds (VOCs).

A summary of the laboratory results for groundwater samples is presented in Table 2. A copy of the laboratory reports and chain of custody records are presented in Appendix B. The following are the results of the groundwater sampling:

- TPH-G was detected only in the groundwater sample collected from monitoring well MW-3 (0.27 mg/l). The TPH-G concentration has decreased since the previous sampling results.

VOCs were detected in the groundwater samples with the highest concentrations detected in the groundwater sample collected from monitoring well MW-3. The compounds detected are common constituents of gasoline. The compound with the highest concentration was MTBE at 4,420 micrograms per liter ($\mu\text{g/l}$) in monitoring well MW-3. The concentration of MTBE decreased in one of the monitoring wells and increased in three of the monitoring wells since the previous sampling event.

2.4 COMPARISON OF GROUNDWATER RESULTS WITH REGULATORY CRITERIA

The concentrations of contaminants reported by the analytical laboratory were compared to the State of California Maximum Contaminant Level (MCL). The following samples were above their respective MCL.

- Benzene (MCL of 1.0 µg/l) detected in groundwater sample MW-3 (24.0 µg/l).
- MTBE (MCL of 1.0 µg/l) detected in groundwater samples MW-1 (201 µg/l), MW-2 (13.5 µg/l), and MW-3 (4,420 µg/l).

Based on the concentrations detected in the groundwater at the site, the primary COC is MTBE. The concentrations of MTBE in each of the monitoring wells are shown in Figure 3. This figure indicates that the highest concentrations of MTBE were encountered in the groundwater samples collected in the monitoring well MW-3, directly down gradient of the former USTs.

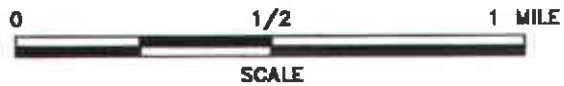
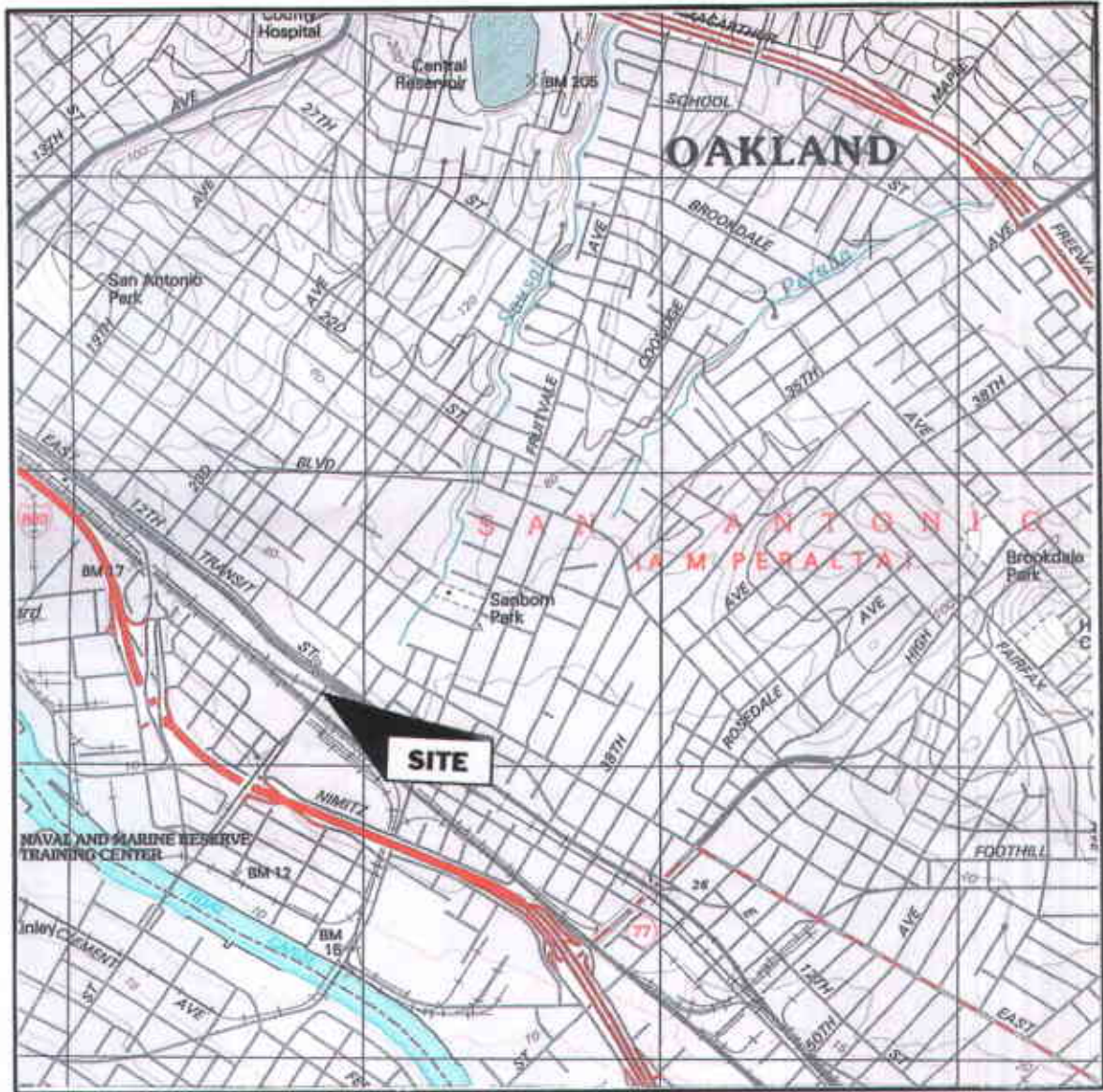
3.0 SUMMARY AND CONCLUSIONS

PSI performed a groundwater monitoring event on May 5, 2004. Groundwater samples were collected from monitoring wells MW-1 through MW-4. Based on measurements collected and analytical data the following conclusions are provided. Groundwater elevation data indicates the groundwater flow direction beneath the site is towards the southwest, with a hydraulic gradient of 0.008.


- TPH-G was detected in the groundwater sample collected from monitoring wells MW-3 (0.27 mg/l).
- VOCs were detected in all four groundwater samples collected from the monitoring wells at the site. Only benzene and MTBE were detected in concentrations greater than their MCL. Based on the concentrations detected in the groundwater at the site, the primary COC is MTBE.

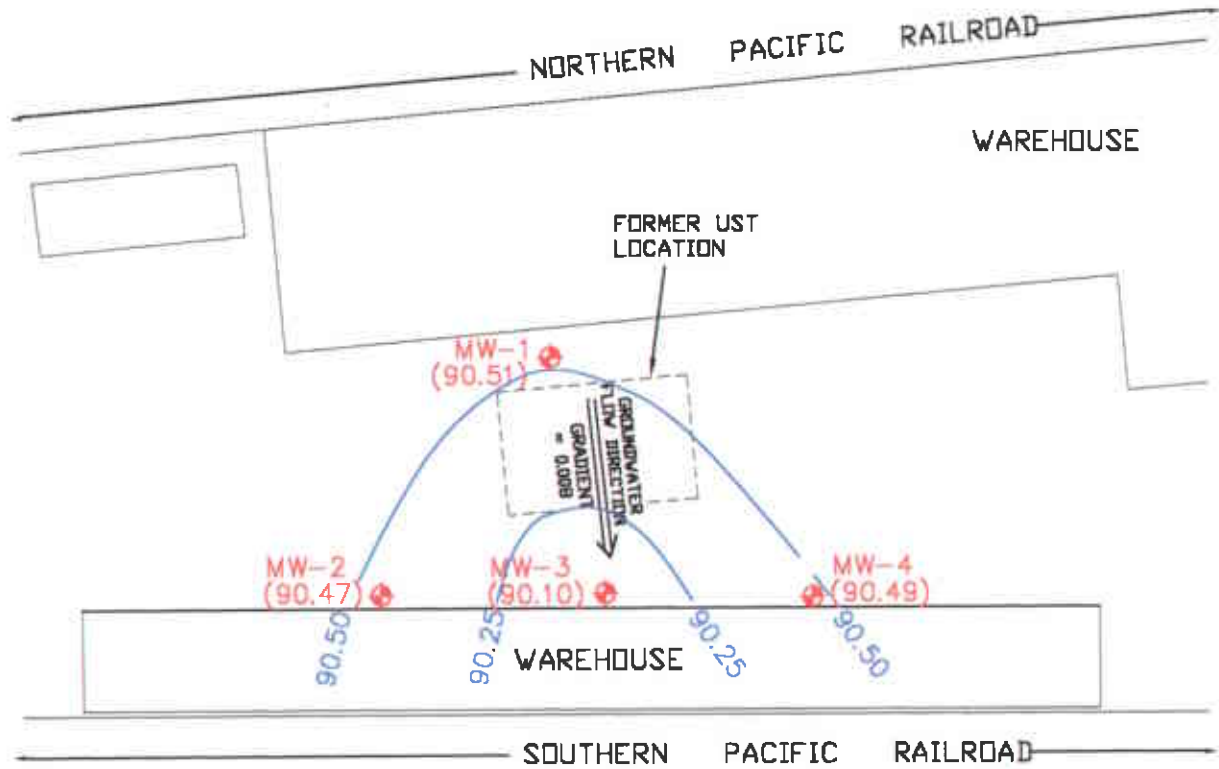
4.0 RECOMMENDATIONS

Based on the relatively stable concentrations of the COCs at the property and the extensive previous quarterly data for the site, PSI recommends that yearly monitoring of the site continue.



REFERENCE:
 OAKLAND EAST, CA 7.5
 MINUTE SERIES TOPOGRAPHIC
 MAP, DATED 1997.

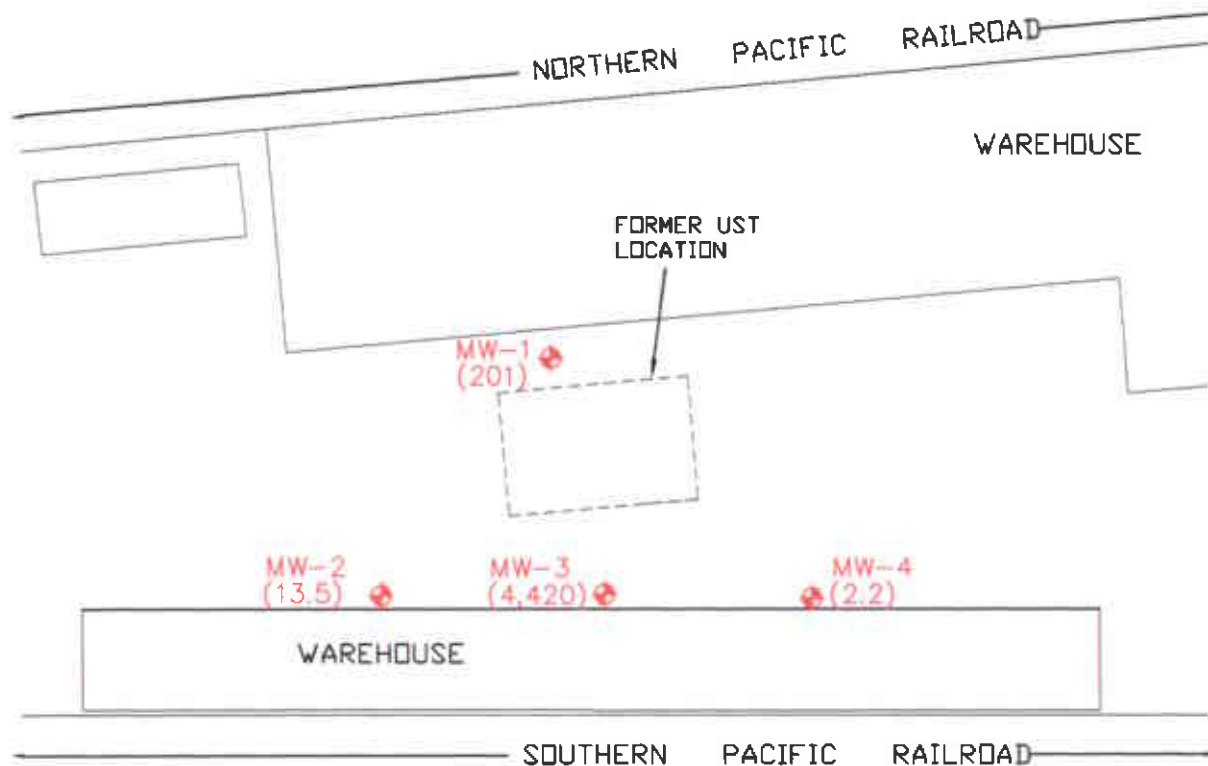
 Information To Build On <i>Engineering • Consulting • Testing</i>		4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200			
Project Name: CALTRANS MAINTENANCE STATION 1112 29TH AVENUE, OAKLAND, CALIFORNIA		Drawn By: B.S.	Date: 5/04	File No.: 4C019-01	Figure No.: 1
Title: SITE LOCATION MAP		Approved By: F.P.	Project No.: 575-4C019		



EXPLANATION:

- ◆ MW-4 (90.49) - GROUNDWATER MONITORING WELL LOCATION (GROUNDWATER ELEVATION GIVEN IN FEET MSL)
- 90.50 - GROUNDWATER ELEVATION CONTOUR (ELEVATION IN FEET MSL)

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Project Name:	Drawn By:	Date:	File No.:	Figure No.:
CALTRANS MAINTENANCE STATION 1112 29TH AVENUE, OAKLAND, CALIFORNIA	B.S.	6/04	4C019-02	2
Title:	Approved By:	Project No.:		
GROUNDWATER ELEVATION MAP (May 5, 2004)	F.P.	575-4C019		



EXPLANATION:

- MW-3 - GROUNDWATER MONITORING WELL LOCATION
- (4,240) - CONCENTRATION (ug/L) OF MTBE DETECTED IN GROUNDWATER SAMPLES (ND INDICATES NOT DETECTED ABOVE LAB METHOD DETECTION LIMITS)


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		Project Name CALTRANS MAINTENANCE STATION 1112 20TH AVENUE, OAKLAND, CALIFORNIA	Drawn By B.B.	Date 1/02
Title MTBE CONCENTRATIONS IN GROUNDWATER (May 5, 2004)		Approved By F.P.	Project No. 575-4C019	

TABLE 1
GROUNDWATER ELEVATION DATA SUMMARY
SOUTH OAKLAND MAINTENANCE STATION
SOUTH OAKLAND, CALIFORNIA

Sample Location	Date	TOC Elevation (feet msl)*	Depth To Groundwater (feet)	Groundwater Elevation (feet msl)
MW-1	6/27/2000	99.57	9.13	90.44
	9/11/2000	99.57	9.52	90.05
	11/28/2000	99.57	9.62	89.95
	3/27/2001	99.57	8.79	90.78
	6/26/2001	99.57	9.80	89.77
	12/5/2001	99.57	8.32	91.25
	3/4/2002	99.57	8.66	90.91
	6/14/2002	99.57	9.53	90.04
	9/24/2002	99.57	10.06	89.51
	5/5/2004	99.57	9.06	90.51
MW-2	6/27/2000	98.91	9.05	89.86
	9/11/2000	98.91	9.95	88.96
	11/28/2000	98.91	9.94	88.97
	3/27/2001	98.91	8.35	90.56
	6/26/2001	98.91	10.76	88.15
	12/5/2001	98.91	8.53	90.38
	3/4/2002	98.91	8.25	90.66
	6/14/2002	98.91	9.50	89.41
	9/24/2002	98.91	10.31	88.60
	5/5/2004	98.91	8.46	90.45
MW-3	6/27/2000	98.98	8.76	90.22
	9/11/2000	98.98	9.28	89.70
	11/28/2000	98.98	9.36	89.62
	3/27/2001	98.98	8.35	90.63
	6/26/2001	98.98	10.51	88.47
	12/5/2001	98.98	8.05	90.93
	3/4/2002	98.98	8.05	90.93
	6/14/2002	98.98	9.35	89.63
	9/24/2002	98.98	10.28	88.70
	5/5/2004	98.98	8.88	90.10
MW-4	6/27/2000	99.04	8.74	90.30
	9/11/2000	99.04	9.30	89.74
	11/28/2000	99.04	9.32	89.72
	3/27/2001	99.04	7.96	91.08
	6/26/2001	99.04	9.56	89.48
	12/5/2001	99.04	8.58	90.46
	3/4/2002	99.04	8.00	91.04
	6/14/2002	99.04	8.79	90.25
	9/24/2002	99.04	9.75	89.29
	5/5/2004	99.04	8.55	90.49

Notes:

All measurements are recorded in feet.

* TOC Measurements are from data supplied by Meridian Surveying

Feet msl = feet above mean sea level

TABLE 2
GROUNDWATER ANALYTICAL DATA SUMMARY
SOUTH OAKLAND MAINTENANCE STATION
SOUTH OAKLAND, CALIFORNIA

Sample I.D.	Date	TPH-G µg/l	MTBE µg/l	tert- Butanol (TBA) µg/l	tert-Amyl Methyl Ether (TAME) µg/l	Benzene µg/l	Toluene µg/l	Ethyl- benzene µg/l	Total Xylenes µg/l	ETBE µg/l	Di-isopropyl ether µg/l	Other VOCs µg/l
MW-1	6/27/2000	0.85	880	<50	<5	20	<1.0	<1.0	19	---	---	---
	9/11/2000	0.82	860	190	<5	14	<1.0	1.8	3.6	---	---	---
	11/28/2000	<0.5	810	<250	<25	3.6	<2.5	<2.5	<7.5	---	---	---
	3/27/2001	<0.20	29	<200	<5.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	<5.0
	6/26/2001	0.24	200	<200	<5.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	<5.0
	8/24/2001	<0.5	520	<1,200	<50	<25	<25	<25	<75	---	---	---
	12/5/2001	0.388	505	<100	<0.5	3.5	<0.3	2.4	15.4	---	---	---
	3/4/2002	0.69	55	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	---
	6/14/2002	<0.5	5.3	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	---
9/24/2002	0.188	80.0	<50	<0.5	<0.5	<0.5	0.5	1.8	<0.5	<0.5	naphthalene - 0.6 n-propylbenzene - 0.7 1,2,4-trimethylbenzene - 4.8 1,3,5-trimethylbenzene - 1.4 n-Butylbenzene - 2.3 isopropylbenzene - 0.5	
5/5/2004	<0.05	201	<50	<0.5	0.5	<0.5	0.6	1.7	<0.5	<0.5	n-propylbenzene - 0.6 1,2,4-trimethylbenzene - 4.7 1,3,5-trimethylbenzene - 1.3 isopropylbenzene - 0.6	
MW-2	6/27/2000	<0.5	88	<50	<5	<1.0	<1.0	<1.0	<3.0	---	---	---
	9/11/2000	<0.5	110	<50	<5	<1.0	<1.0	<1.0	<3.0	---	---	---
	11/28/2000	<0.5	130	<50	<5	<1.0	<1.0	<1.0	<3.0	---	---	---
	3/27/2001	<0.20	110	<200	<5.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	<5.0
	6/26/2001	0.11	51	<200	<5.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	<5.0
	8/24/2001	<0.5	36	<100	<4	<2.0	<2.0	<2.0	<6.0	---	---	---
	12/5/2001	0.06	79	<100	<0.5	<0.3	<0.3	<0.3	<0.8	---	---	---
	3/4/2002	<0.5	8	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	---
	6/14/2002	<0.5	25.0	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	---
	9/24/2002	<0.05	34.8	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	---
	5/5/2004	<0.05	13.5	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	---
MW-3	6/27/2000	2.7	5,000	1,500	11	73	1.7	1.2	4.6	---	---	---
	9/11/2000	1.9	2,700	310	10	19	<1.0	<1.0	<3.0	---	---	---
	11/28/2000	1.7	2,500	<1,000	<100	27	92	<10	<30	---	---	---
	3/27/2001	5.2	5,500	270	12	220	5.9	2.2	<1.0	<5.0	<5.0	---
	6/26/2001	2.5	2,800	230	12	20	<0.50	<0.50	<1.0	<5.0	<5.0	---
	8/24/2001	1.7	2,800	<5,000	<200	<100	<100	<100	<300	---	---	---
	12/5/2001	1.88	2,240	<5,000	<200	18.3	0.3	1.2	1	---	---	---
	3/4/2002	3.23	7,520	<50	11	94.2	0.8	2.4	6.9	<0.5	<0.5	---
	6/14/2002	2.32	5,290	<0.5	8.9	3.6	<0.5	<0.5	<1	<0.5	<0.5	---
	9/24/2002	2.06	2,020	<50	7.8	24.0	0.5	1.2	3.4	<0.5	<0.5	tert-butylbenzene - 0.5 n-propylbenzene - 0.7 1,2,4 trimethylbenzene - 0.9
	5/5/2004	0.270	4,420	<50	<0.5	32.2	<0.5	0.8	4.8	<0.5	<0.5	naphthalene - 2.0 n-propylbenzene - 1.3 isopropylbenzene - 0.9
MW-4	6/27/2000	<0.5	16	<50	<5	<1.0	<1.0	<1.0	<3.0	---	---	---
	9/11/2000	<0.5	<1.0	<50	<5	<1.0	<1.0	<1.0	<3.0	---	---	---
	11/28/2000	<0.5	<1.0	<50	<5	<0.5	<0.5	<0.5	<1.5	---	---	---
	3/27/2001	<0.20	<5.0	<200	<5.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	chloroform - 5.1
	6/26/2001	<0.05	<5.0	<200	<5.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	<5.0
	8/24/2001	<0.5	<2	<100	<4	<1.0	<1.0	<1.0	<3.0	---	---	---
	12/5/2001	<0.05	<0.3	<100	<0.5	<0.3	<0.3	<0.3	<0.6	---	---	---
	3/4/2002	<0.5	5	<0.5	<0.5	0.5	<0.5	<0.5	<1.0	<0.5	<0.5	---
	6/14/2002	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	chloroform - 5.4
	9/24/2002	<0.05	1.3	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	chloroform - 5.3
	5/5/2004	<0.05	2.2	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	chloroform - 3.0

NOTES:

--- = Not Tested

TPH-G = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015M.

MTBE = Methyl Tertiary Butyl Ether

ETBE = Ethyl Tertiary Butyl Ether

VOCs = Volatile Organic Compounds

mg/l = milligrams per liter

µg/l = micrograms per liter

APPENDIX A

GROUNDWATER PURGE LOGS

FLUID MEASUREMENT FIELD DATA

SHEET: 1 OF 1

DATE: 5/5/04	PROJECT NAME: CT South Oakland	PROJECT NO: 575-46-019
WATER LEVEL MEASUREMENT INSTRUMENT: Solinst		SERIAL NO:
PRODUCT DETECTION INSTRUMENT:		SERIAL NO:

EQUIP. DECON: ALCONOX WASH DIST/DEION 1 RINSE ISOPROPANOL ANALYTE FREE FINAL RINSE TAP WATER FINAL RINSE
 TAP WATER WASH LIQUINOX WASH DIST/DEION 2 RINSE OTHER SOLVENT DIST/DEION FINAL RINSE AIR DRY

WELL NUMBER	GROUND SURFACE ELEVATION	TOP OF CASING ELEVATION	DEPTH TO PRODUCT BELOW TOC	DEPTH TO WATER BELOW TOC	WELL DEPTH BELOW TOC	PRODUCT THICKNESS	WATER TABLE ELEVATION	ACTUAL TIME
MW-1				9.06	25.18			10:30
MW-2				8.64	19.47			10:22
MW-3				8.88	20.20			10:33
MW-4				8.65	24.37			10:18

REMEMBER TO CORRECT PRODUCT THICKNESS FOR DENSITY BEFORE CALCULATING WATER TABLE ELEVATION PREPARED BY:

WELL PURGING AND SAMPLING DATA

DATE: <u>5/5/04</u>		PROJECT NAME: <u>South Oakland</u>		WELL NO: <u>Mw-1</u>		PROJECT NO: <u>46-019</u>				
WEATHER CONDITIONS: <u>Sunny, warm</u>										
WELL DIAMETER (IN.)		<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 4	<input type="checkbox"/> 6	<input type="checkbox"/> OTHER _____				
SAMPLE TYPE:		<input checked="" type="checkbox"/> GROUNDWATER	<input type="checkbox"/> WASTEWATER	<input type="checkbox"/> SURFACE WATER	<input type="checkbox"/> OTHER					
WELL DEPTH (TOC)		<u>25.18</u>	FT.	DEPTH TO WATER BEFORE PURGING (TOC)		<u>9.06</u>	FT.			
LENGTH OF WATER		<u>16.12</u>	FT.	CALCULATED ONE WELL VOLUME ¹ :		<u>2.7</u>	GAL			
PURGING DEVICE:		<input type="checkbox"/> DEDICATED		<input checked="" type="checkbox"/> DISPOSABLE		<input type="checkbox"/> DECONTAMINATED				
SAMPLING DEVICE:		<input type="checkbox"/> DEDICATED		<input checked="" type="checkbox"/> DISPOSABLE		<input type="checkbox"/> DECONTAMINATED				
EQUIP. DECON.		<input type="checkbox"/> TAP WATER WASH		<input type="checkbox"/> ISOPROPANOL		<input type="checkbox"/> ANALYTE FREE FINAL RINSE				
<input type="checkbox"/> ALCONOX WASH		<input type="checkbox"/> DIST/DEION 1 RINSE		<input type="checkbox"/> OTHER SOLVENT		<input type="checkbox"/> DIST/DEION FINAL RINSE				
<input type="checkbox"/> LIQUINOX WASH		<input type="checkbox"/> DIST/DEION 2 RINSE		<input type="checkbox"/> TAP WATER FINAL RINSE		<input type="checkbox"/> AIR DRY				
CONTAINER PRESERVATION:		<input checked="" type="checkbox"/> LAB PRESERVED		<input type="checkbox"/> FIELD PRESERVED						
WATER ANALYZER MODEL & SERIAL NO:										
ACTUAL TIME (MIN)	CUMUL VOLUME PURGED (GAL)	TEMP <input type="checkbox"/> °F <input checked="" type="checkbox"/> °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)		
<u>11:32</u>	<u>INITIAL</u>	<u>19.8</u>	<u>514.6</u>	<u>8.84</u>			<u>CL</u>			
<u>11:36</u>	<u>3</u>	<u>19.4</u>	<u>504.9</u>	<u>8.83</u>			<u>CL</u>			
<u>11:40</u>	<u>5.5</u>	<u>19.2</u>	<u>506.8</u>	<u>8.85</u>			<u>CL</u>			
<u>11:46</u>	<u>8.5</u>	<u>19.2</u>	<u>512.2</u>	<u>8.84</u>			<u>CL</u>			
DEPTH TO WATER AFTER PURGING (TOC)					FT.	SAMPLE FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO SIZE _____				
NOTES:					SAMPLE TIME: <u>11:48</u>		ID# <u>Mw-1</u>			
					DUPLICATE <input type="checkbox"/>		TIME:		ID#:	
					EQUIP. BLANK: <input type="checkbox"/>		TIME:		ID#:	
					PREPARED BY: <u>BS</u>					

¹A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

WELL PURGING AND SAMPLING DATA

DATE: <u>5/5/04</u>		PROJECT NAME: <u>South Oakland</u>		WELL NO: <u>MW-2</u>		PROJECT NO: <u>46019</u>				
WEATHER CONDITIONS: <u>Sunny, Warm</u>										
WELL DIAMETER (IN.) <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> OTHER _____										
SAMPLE TYPE: <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SURFACE WATER <input type="checkbox"/> OTHER										
WELL DEPTH (TOC) <u>19.47</u> FT.				DEPTH TO WATER BEFORE PURGING (TOC) <u>8.46</u> FT.						
LENGTH OF WATER <u>11.01</u> FT.				CALCULATED ONE WELL VOLUME ¹ : <u>1.9</u> GAL.						
PURGING DEVICE: <input type="checkbox"/> DEDICATED <input checked="" type="checkbox"/> DISPOSABLE <input type="checkbox"/> DECONTAMINATED										
SAMPLING DEVICE: <input type="checkbox"/> DEDICATED <input checked="" type="checkbox"/> DISPOSABLE <input type="checkbox"/> DECONTAMINATED										
EQUIP. DECON. <input type="checkbox"/> TAP WATER WASH <input type="checkbox"/> ISOPROPANOL <input type="checkbox"/> ANALYTE FREE FINAL RINSE										
<input type="checkbox"/> ALCONOX WASH <input type="checkbox"/> DIST/DEION 1 RINSE <input type="checkbox"/> OTHER SOLVENT <input type="checkbox"/> DIST/DEION FINAL RINSE										
<input type="checkbox"/> LIQUINOX WASH <input type="checkbox"/> DIST/DEION 2 RINSE <input type="checkbox"/> TAP WATER FINAL RINSE <input type="checkbox"/> AIR DRY										
CONTAINER PRESERVATION: <input checked="" type="checkbox"/> LAB PRESERVED <input type="checkbox"/> FIELD PRESERVED										
WATER ANALYZER MODEL & SERIAL NO:										
ACTUAL TIME (MIN)	CLIMUL VOLUME PURGED (GAL)	TEMP <input type="checkbox"/> °F <input checked="" type="checkbox"/> °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)		
<u>11:10</u>	<u>INITIAL</u>	<u>18.6</u>	<u>584.6</u>	<u>8.93</u>			<u>CL</u>			
<u>11:13</u>	<u>2</u>	<u>18.3</u>	<u>583.6</u>	<u>8.88</u>			<u>CL</u>			
<u>11:16</u>	<u>4</u>	<u>18.4</u>	<u>588.8</u>	<u>8.96</u>			<u>CL</u>			
<u>11:20</u>	<u>6</u>	<u>18.4</u>	<u>579.9</u>	<u>8.90</u>			<u>CL</u>			
DEPTH TO WATER AFTER PURGING (TOC) _____ FT.					SAMPLE FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO SIZE _____					
NOTES:					SAMPLE TIME: <u>11:23</u>		ID# <u>MW-2</u>			
					DUPLICATE <input type="checkbox"/>		TIME:		ID#:	
					EQUIP. BLANK: <input type="checkbox"/>		TIME:		ID#:	
					PREPARED BY: <u>BS</u>					

¹A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

WELL PURGING AND SAMPLING DATA

WELL NO: MW-3

DATE: 5/5/04 PROJECT NAME: South Oakland PROJECT NO: 4609

WEATHER CONDITIONS: Sunny, Warm

WELL DIAMETER (IN.) 1 2 4 6 OTHER _____

SAMPLE TYPE: GROUNDWATER WASTEWATER SURFACE WATER OTHER

WELL DEPTH (TOC) 20.20 FT. DEPTH TO WATER BEFORE PURGING (TOC) 8.88 FT.

LENGTH OF WATER 11.32 FT. CALCULATED ONE WELL VOLUME¹: 1.9 GAL

PURGING DEVICE: DEDICATED DISPOSABLE DECONTAMINATED

SAMPLING DEVICE: DEDICATED DISPOSABLE DECONTAMINATED

EQUIP. DECON. TAP WATER WASH ISOPROPANOL ANALYTE FREE FINAL RINSE

ALCONOX WASH DIST/DEION 1 RINSE OTHER SOLVENT DIST/DEION FINAL RINSE

LIQUINOX WASH DIST/DEION 2 RINSE TAP WATER FINAL RINSE AIR DRY

CONTAINER PRESERVATION: LAB PRESERVED FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:

ACTUAL TIME (MIN)	CUMUL VOLUME PURGED (GAL)	TEMP <input type="checkbox"/> °F <input checked="" type="checkbox"/> °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
11:38	INITIAL	19.5	627.7	8.84			CL	
12:02	2	18.9	629.4	8.84			CL	
12:05	4	19.1	644.4	8.84			CO	
12:08	6	19.6	637.9	8.87			CL	

DEPTH TO WATER AFTER PURGING (TOC) _____ FT. SAMPLE FILTERED YES NO SIZE _____

NOTES:

SAMPLE TIME: 12:10 ID# MW-3

DUPLICATE TIME: _____ ID#:

EQUIP. BLANK: TIME: _____ ID#:

PREPARED BY: BS

¹ A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

WELL PURGING AND SAMPLING DATA

DATE: <u>5/5/04</u>		PROJECT NAME: <u>South Oakland</u>		WELL NO: <u>MW-4</u>		PROJECT NO: <u>46019</u>				
WEATHER CONDITIONS: <u>Sunny, Warm</u>										
WELL DIAMETER (IN.) <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> OTHER _____										
SAMPLE TYPE: <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SURFACE WATER <input type="checkbox"/> OTHER										
WELL DEPTH (TOC) <u>24.37</u> FT.				DEPTH TO WATER BEFORE PURGING (TOC) <u>8.55</u> FT.						
LENGTH OF WATER <u>15.82</u> FT.				CALCULATED ONE WELL VOLUME ¹ : <u>2.7</u> GAL.						
PURGING DEVICE: <input type="checkbox"/> DEDICATED <input checked="" type="checkbox"/> DISPOSABLE <input type="checkbox"/> DECONTAMINATED										
SAMPLING DEVICE: <input type="checkbox"/> DEDICATED <input checked="" type="checkbox"/> DISPOSABLE <input type="checkbox"/> DECONTAMINATED										
EQUIP. DECON. <input type="checkbox"/> TAP WATER WASH <input type="checkbox"/> ISOPROPANOL <input type="checkbox"/> ANALYTE FREE FINAL RINSE										
<input type="checkbox"/> ALCONOX WASH		<input type="checkbox"/> DIST/DEION 1 RINSE		<input type="checkbox"/> OTHER SOLVENT		<input type="checkbox"/> DIST/DEION FINAL RINSE				
<input type="checkbox"/> LIQUINOX WASH		<input type="checkbox"/> DIST/DEION 2 RINSE		<input type="checkbox"/> TAP WATER FINAL RINSE		<input type="checkbox"/> AIR DRY				
CONTAINER PRESERVATION: <input checked="" type="checkbox"/> LAB PRESERVED <input type="checkbox"/> FIELD PRESERVED										
WATER ANALYZER MODEL & SERIAL NO:										
ACTUAL TIME (MIN)	CUMUL VOLUME PURGED (GAL)	TEMP <input type="checkbox"/> °F <input checked="" type="checkbox"/> °C	SPECIFIC CONDUCT.	pH	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)		
10:40	INITIAL	19.0	519.3	8.90			CL/TA			
10:46	3	18.6	514.6	8.96			CO			
10:50	5.5	18.4	514.1	8.80			CO			
10:54	8.5	18.2	515.0	8.86			CO			
DEPTH TO WATER AFTER PURGING (TOC) _____ FT.					SAMPLE FILTERED <input type="checkbox"/> YES <input type="checkbox"/> NO SIZE _____					
NOTES:					SAMPLE TIME: <u>10:55</u>		ID# <u>MW-4</u>			
					DUPLICATE <input type="checkbox"/>		TIME: _____		ID#: _____	
					EQUIP. BLANK: <input type="checkbox"/>		TIME: _____		ID#: _____	
					PREPARED BY: <u>BS</u>					

¹A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

APPENDIX B

LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS



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voice 530.243.7234 2218 Railroad Avenue
fax 530.243.7494 Redding, California 96001

May 21, 2004

Lab ID: 4050260

FRANK POSS
PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
RE: SOUTH OAKLAND 4G019

Dear FRANK POSS,

Enclosed are the analysis results for Work Order number 4050260. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

Ricky Jensen
For

James E. Hawley
James E. Hawley
Laboratory Director

California ELAP Certification Number 1677



basic
laboratory

www.basic.ab.com

voice 530.243.7234 2218 Railroad Avenue
fax 530.243.7494 Redding, California 96001

Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601

Attention: FRANK POSS
Project: SOUTH OAKLAND 4G019

Lab No: 4050260
Reported: 05/25/04
Phone: 510-434-9200
P.O. #

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1 Water (4050260-01)			Sampled:05/05/04 11:48						
			Received:05/06/04 10:38						
Acetone	ug/l	ND			5.0	EPA 8260	05/06/04	05/06/04	B4E0104
Acrylonitrile	"	ND			5.0	"	"	"	"
Benzene	"	0.5			0.5	"	"	"	"
Bromobenzene	"	ND			0.5	"	"	"	"
Bromochloromethane	"	ND			0.5	"	"	"	"
Bromodichloromethane	"	ND			0.5	"	"	"	"
Bromoform	"	ND			0.5	"	"	"	"
Bromomethane	"	ND			0.5	"	"	"	"
2-Butanone	"	ND			1.0	"	"	"	"
n-Butylbenzene	"	ND			5.0	"	"	"	"
sec-Butylbenzene	"	ND			0.5	"	"	"	"
tert-Butylbenzene	"	ND			0.5	"	"	"	"
Carbon disulfide	"	ND			0.5	"	"	"	"
Carbon tetrachloride	"	ND			0.5	"	"	"	"
Chlorobenzene	"	ND			0.5	"	"	"	"
Chloroethane	"	ND			0.5	"	"	"	"
2-Chloroethylvinyl ether	"	ND			1.0	"	"	"	"
Chloroform	"	ND			0.5	"	"	"	"
Chloromethane	"	ND			0.5	"	"	"	"
2-Chlorotoluene	"	ND			0.5	"	"	"	"
4-Chlorotoluene	"	ND			0.5	"	"	"	"
Dibromochloromethane	"	ND			0.5	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			0.5	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			0.5	"	"	"	"
Dibromomethane	"	ND			0.5	"	"	"	"
1,2-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,3-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,4-Dichlorobenzene	"	ND			0.5	"	"	"	"
Dichlorodifluoromethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethane	"	ND			0.5	"	"	"	"
1,2-Dichloroethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethene	"	ND			0.5	"	"	"	"
cis-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
trans-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
Dichloromethane	"	ND			1.0	"	"	"	"
1,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,3-Dichloropropane	"	ND			0.5	"	"	"	"
2,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,1-Dichloropropene	"	ND			0.5	"	"	"	"
cis-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
trans-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
1,4-Dioxane	"	ND			25.0	"	"	"	"
Ethylbenzene	"	0.6			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Hexachlorobutadiene	"	ND			0.5	"	"	"	"
2-Hexanone	"	ND			5.0	"	"	"	"
Isopropylbenzene	"	0.6			0.5	"	"	"	"
Di-isopropyl ether	"	ND			0.5	"	"	"	"
p-Isopropyltoluene	"	ND			0.5	"	"	"	"
m-Methyl-2-pentanone	"	ND			5.0	"	"	"	"
Methyl tert-butyl ether	"	201			10.0	"	05/10/04	"	"
Naphthalene	"	ND			0.5	"	05/06/04	"	"

Thoby Jensen
Approved By

Basic Laboratory, Inc.
California D.O.H.S. Cert #1677



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laboratory

www.basiclab.com

voice 530.243.7234 2218 Railroad Avenue
fax 530.243.7494 Redding, California 96001

Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601

Lab No: 4050260
Reported: 05/25/04
Phone: 510-434-9200
P.O. #

Attention: FRANK POSS
Project: SOUTH OAKLAND 4G019

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-2 Water (4050260-02) Sampled:05/05/04 11:22 Received:05/06/04 10:38									
1,3-Dichlorobenzene	"	ND			0.5	"	"	05/06/04	"
1,4-Dichlorobenzene	"	ND			0.5	"	"	"	"
Dichlorodifluoromethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethane	"	ND			0.5	"	"	"	"
1,2-Dichloroethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethene	"	ND			0.5	"	"	"	"
cis-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
trans-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
Dichloromethane	"	ND			1.0	"	"	"	"
1,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,3-Dichloropropane	"	ND			0.5	"	"	"	"
2,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,1-Dichloropropene	"	ND			0.5	"	"	"	"
cis-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
trans-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
1,4-Dioxane	"	ND			25.0	"	"	"	"
Ethylbenzene	"	ND			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Hexachlorobutadiene	"	ND			0.5	"	"	"	"
2-Hexanone	"	ND			5.0	"	"	"	"
Isopropylbenzene	"	ND			0.5	"	"	"	"
Di-isopropyl ether	"	ND			0.5	"	"	"	"
p-Isopropyltoluene	"	ND			0.5	"	"	"	"
4-Methyl-2-pentanone	"	ND			5.0	"	"	"	"
Methyl tert-butyl ether	"	13.5			1.0	"	05/10/04	"	"
Naphthalene	"	ND			0.5	"	05/06/04	"	"
n-Propylbenzene	"	ND			0.5	"	"	"	"
Styrene	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
Tetrachloroethene	"	ND			0.5	"	"	"	"
Tetrahydrofuran	"	ND			5.0	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Toluene	"	ND			0.5	"	"	"	"
1,2,3-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,2,4-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,1,1-Trichloroethane	"	ND			0.5	"	"	"	"
1,1,2-Trichloroethane	"	ND			0.5	"	"	"	"
Trichloroethene	"	ND			0.5	"	"	"	"
Trichlorotrifluoroethane	"	ND			2.0	"	"	"	"
Trichlorofluoromethane	"	ND			0.5	"	"	"	"
1,2,3-Trichloropropane	"	ND			0.5	"	"	"	"
1,2,4-Trimethylbenzene	"	ND			0.5	"	"	"	"
1,3,5-Trimethylbenzene	"	ND			0.5	"	"	"	"
Vinyl acetate	"	ND			0.5	"	"	"	"
Vinyl chloride	"	ND			0.5	"	"	"	"
Xylenes (total)	"	ND			1.0	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		95.5 %			28-129	"	"	"	"
Surrogate: Toluene-d8		76.4 %			52-150	"	"	"	"
Surrogate: 4-Bromofluorobenzene		71.8 %			43-155	"	"	"	"
MW-3 Water (4050260-03) Sampled:05/05/04 12:10 Received:05/06/04 10:38									

Richy Jensen
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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601

Attention: FRANK POSS
Project: SOUTH OAKLAND 4G019

Lab No: 4050260
Reported: 05/25/04
Phone: 510-434-9200
P.O. #

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1 Water (4050260-01) Sampled:05/05/04 11:48 Received:05/06/04 10:38									
n-Propylbenzene	"	0.8			0.5	"	"	05/06/04	"
Styrene	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
Tetrachloroethane	"	ND			0.5	"	"	"	"
Tetrahydrofuran	"	ND			5.0	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Toluene	"	ND			0.5	"	"	"	"
1,2,3-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,2,4-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,1,1-Trichloroethane	"	ND			0.5	"	"	"	"
1,1,2-Trichloroethane	"	ND			0.5	"	"	"	"
Trichloroethene	"	ND			0.5	"	"	"	"
Trichlorotrifluoroethane	"	ND			2.0	"	"	"	"
Trichlorofluoromethane	"	ND			0.5	"	"	"	"
1,2,3-Trichloropropane	"	ND			0.5	"	"	"	"
1,2,4-Trimethylbenzene	"	4.7			0.5	"	"	"	"
1,3,5-Trimethylbenzene	"	1.3			0.5	"	"	"	"
Vinyl acetate	"	ND			0.5	"	"	"	"
Vinyl chloride	"	ND			0.5	"	"	"	"
Xylenes (total)	"	1.7			1.0	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		88.7 %		28-129		"	"	"	"
Surrogate: Toluene-d8		83.6 %		52-150		"	"	"	"
Surrogate: 4-Bromofluorobenzene		77.7 %		43-155		"	"	"	"
MW-2 Water (4050260-02) Sampled:05/05/04 11:22 Received:05/06/04 10:38									
Acetone	ug/l	ND			5.0	EPA 8260	05/06/04	05/06/04	B4E0104
Acrylonitrile	"	ND			5.0	"	"	"	"
Benzene	"	ND			0.5	"	"	"	"
Bromobenzene	"	ND			0.5	"	"	"	"
Bromochloromethane	"	ND			0.5	"	"	"	"
Bromodichloromethane	"	ND			0.5	"	"	"	"
Bromoform	"	ND			0.5	"	"	"	"
Bromomethane	"	ND			1.0	"	"	"	"
Butanone	"	ND			5.0	"	"	"	"
n-Butylbenzene	"	ND			0.5	"	"	"	"
sec-Butylbenzene	"	ND			0.5	"	"	"	"
tert-Butylbenzene	"	ND			0.5	"	"	"	"
Carbon disulfide	"	ND			0.5	"	"	"	"
Carbon tetrachloride	"	ND			0.5	"	"	"	"
Chlorobenzene	"	ND			0.5	"	"	"	"
Chloroethane	"	ND			0.5	"	"	"	"
1-Chloroethylvinyl ether	"	ND			1.0	"	"	"	"
Chloroform	"	ND			0.5	"	"	"	"
Chloromethane	"	ND			0.5	"	"	"	"
2-Chlorotoluene	"	ND			0.5	"	"	"	"
4-Chlorotoluene	"	ND			0.5	"	"	"	"
1-Bromochloromethane	"	ND			0.5	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			0.5	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			0.5	"	"	"	"
Dibromomethane	"	ND			0.5	"	"	"	"
1,2-Dichlorobenzene	"	ND			0.5	"	"	"	"

Richy Jensen
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Report To: PROFESSIONAL SERVICE INDUSTRIES
 4703 TIDEWATER AVENUE SUITE B
 OAKLAND, CA 94601
Attention: FRANK POSS
Project: SOUTH OAKLAND 4G019

Lab No: 4050260
Reported: 05/25/04
Phone: 510-434-9200
P.O. #

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-3 Water (4050260-03) Sampled:05/05/04 12:10 Received:05/06/04 10:38									
Acetone	ug/l	ND			5.0	EPA 8260	05/06/04	05/06/04	B4E0104
Acrylonitrile	"	ND			5.0	"	"	"	"
Benzene	"	32.2			5.0	"	05/10/04	"	"
Bromobenzene	"	ND			0.5	"	05/06/04	"	"
Bromochloromethane	"	ND			0.5	"	"	"	"
Bromodichloromethane	"	ND			0.5	"	"	"	"
Bromoform	"	ND			0.5	"	"	"	"
Bromomethane	"	ND			1.0	"	"	"	"
2-Butanone	"	ND			5.0	"	"	"	"
n-Butylbenzene	"	ND			0.5	"	"	"	"
sec-Butylbenzene	"	ND			0.5	"	"	"	"
tert-Butylbenzene	"	ND			0.5	"	"	"	"
Carbon disulfide	"	ND			0.5	"	"	"	"
Carbon tetrachloride	"	ND			0.5	"	"	"	"
Chlorobenzene	"	ND			0.5	"	"	"	"
Chloroethane	"	ND			0.5	"	"	"	"
2-Chloroethylvinyl ether	"	ND			1.0	"	"	"	"
Chloroform	"	ND			0.5	"	"	"	"
Chloromethane	"	ND			0.5	"	"	"	"
2-Chlorotoluene	"	ND			0.5	"	"	"	"
4-Chlorotoluene	"	ND			0.5	"	"	"	"
Dibromochloromethane	"	ND			0.5	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			0.5	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			0.5	"	"	"	"
Dibromomethane	"	ND			0.5	"	"	"	"
1,2-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,3-Dichlorobenzene	"	ND			0.5	"	"	"	"
1,4-Dichlorobenzene	"	ND			0.5	"	"	"	"
Dichlorodifluoromethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethane	"	ND			0.5	"	"	"	"
1,2-Dichloroethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethene	"	ND			0.5	"	"	"	"
cis-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
trans-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
Dichloromethane	"	ND			1.0	"	"	"	"
1,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,3-Dichloropropane	"	ND			0.5	"	"	"	"
2,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,1-Dichloropropene	"	ND			0.5	"	"	"	"
cis-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
trans-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
1,4-Dioxane	"	ND			25.0	"	05/06/04	"	"
Ethylbenzene	"	0.8			0.5	"	05/06/04	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Hexachlorobutadiene	"	ND			0.5	"	"	"	"
2-Hexanone	"	ND			5.0	"	"	"	"
Isopropylbenzene	"	0.9			0.5	"	"	"	"
n-Isopropyl ether	"	ND			0.5	"	"	"	"
n-Isopropyltoluene	"	ND			0.5	"	"	"	"
4-Methyl-2-pentanone	"	ND			5.0	"	"	"	"
Methyl tert-butyl ether	"	4420			200	"	05/10/04	"	"
Naphthalene	"	2.0			0.5	"	05/06/04	"	"

Patricia Jensen
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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: SOUTH OAKLAND 4G019

Lab No: 4050260
Reported: 05/25/04
Phone: 510-434-9200
P.O. #

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-3 Water (4050260-03) Sampled:05/05/04 12:10 Received:05/06/04 10:38									
n-Propylbenzene	"	1.3			0.5	"	"	05/06/04	"
Styrene	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
Tetrachloroethene	"	ND			0.5	"	"	"	"
Tetrahydrofuran	"	ND			5.0	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Toluene	"	ND			0.5	"	"	"	"
1,2,3-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,2,4-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,1,1-Trichloroethane	"	ND			0.5	"	"	"	"
1,1,2-Trichloroethane	"	ND			0.5	"	"	"	"
Trichloroethene	"	ND			0.5	"	"	"	"
Trichlorotrifluoroethane	"	ND			2.0	"	"	"	"
Trichlorofluoromethane	"	ND			0.5	"	"	"	"
1,2,3-Trichloropropane	"	ND			0.5	"	"	"	"
1,2,4-Trimethylbenzene	"	ND			0.5	"	"	"	"
1,3,5-Trimethylbenzene	"	ND			0.5	"	"	"	"
Vinyl acetate	"	ND			0.5	"	"	"	"
Vinyl chloride	"	ND			0.5	"	"	"	"
Xylenes (total)	"	4.8			1.0	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		105 %			28-129	"	"	"	"
Surrogate: Toluene-d8		92.9 %			52-150	"	"	"	"
Surrogate: 4-Bromofluorobenzene		85.2 %			43-155	"	"	"	"

MW-4 Water (4050260-04) Sampled:05/05/04 10:55 Received:05/06/04 10:38									
Acetone	ug/l	ND			5.0	EPA 8260	05/06/04	05/06/04	B4E0104
Acrylonitrile	"	ND			5.0	"	"	"	"
Benzene	"	ND			0.5	"	"	"	"
Bromobenzene	"	ND			0.5	"	"	"	"
Bromochloromethane	"	ND			0.5	"	"	"	"
Bromodichloromethane	"	ND			0.5	"	"	"	"
Bromoform	"	ND			0.5	"	"	"	"
Bromomethane	"	ND			1.0	"	"	"	"
2-Butanone	"	ND			5.0	"	"	"	"
n-Butylbenzene	"	ND			0.5	"	"	"	"
sec-Butylbenzene	"	ND			0.5	"	"	"	"
tert-Butylbenzene	"	ND			0.5	"	"	"	"
Carbon disulfide	"	ND			0.5	"	"	"	"
Carbon tetrachloride	"	ND			0.5	"	"	"	"
Chlorobenzene	"	ND			0.5	"	"	"	"
Chloroethane	"	ND			0.5	"	"	"	"
1-Chloroethylvinyl ether	"	ND			1.0	"	"	"	"
Chloroform	"	3.0			0.5	"	"	"	"
Chloromethane	"	ND			0.5	"	"	"	"
2-Chlorotoluene	"	ND			0.5	"	"	"	"
4-Chlorotoluene	"	ND			0.5	"	"	"	"
Dibromochloromethane	"	ND			0.5	"	"	"	"
1,2-Dibromo-3-chloropropane (DBCP)	"	ND			0.5	"	"	"	"
1,2-Dibromoethane (EDB)	"	ND			0.5	"	"	"	"
Dibromomethane	"	ND			0.5	"	"	"	"
1,2-Dichlorobenzene	"	ND			0.5	"	"	"	"

Kathy Jones
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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: SOUTH OAKLAND 4G019

Lab No: 4050260
Reported: 05/25/04
Phone: 510-434-9200
P.O. #

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-4 Water (4050260-04)	Sampled:05/05/04 10:55		Received:05/06/04 10:38						
1,3-Dichlorobenzene	"	ND			0.5	"	"	05/06/04	"
1,4-Dichlorobenzene	"	ND			0.5	"	"	"	"
Dichlorodifluoromethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethane	"	ND			0.5	"	"	"	"
1,2-Dichloroethane	"	ND			0.5	"	"	"	"
1,1-Dichloroethene	"	ND			0.5	"	"	"	"
cis-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
trans-1,2-Dichloroethene	"	ND			0.5	"	"	"	"
Dichloromethane	"	ND			1.0	"	"	"	"
1,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,3-Dichloropropane	"	ND			0.5	"	"	"	"
2,2-Dichloropropane	"	ND			0.5	"	"	"	"
1,1-Dichloropropene	"	ND			0.5	"	"	"	"
cis-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
trans-1,3-Dichloropropene	"	ND			0.5	"	"	"	"
1,4-Dioxane	"	ND			25.0	"	"	"	"
Ethylbenzene	"	ND			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Hexachlorobutadiene	"	ND			0.5	"	"	"	"
2-Hexanone	"	ND			5.0	"	"	"	"
Isopropylbenzene	"	ND			0.5	"	"	"	"
Di-Isopropyl ether	"	ND			0.5	"	"	"	"
p-Isopropyltoluene	"	ND			0.5	"	"	"	"
4-Methyl-2-pentanone	"	ND			5.0	"	"	"	"
Methyl tert-butyl ether	"	2.2			1.0	"	05/11/04	"	"
Naphthalene	"	ND			0.5	"	05/06/04	"	"
n-Propylbenzene	"	ND			0.5	"	"	"	"
Styrene	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
1,1,1,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
1,1,2,2-Tetrachloroethane	"	ND			0.5	"	"	"	"
Tetrachloroethene	"	ND			0.5	"	"	"	"
Tetrahydrofuran	"	ND			5.0	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Toluene	"	ND			0.5	"	"	"	"
1,2,3-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,2,4-Trichlorobenzene	"	ND			0.5	"	"	"	"
1,1,1-Trichloroethane	"	ND			0.5	"	"	"	"
1,1,2-Trichloroethane	"	ND			0.5	"	"	"	"
Trichloroethene	"	ND			0.5	"	"	"	"
Trichlorotrifluoroethane	"	ND			2.0	"	"	"	"
Trichlorofluoromethane	"	ND			0.5	"	"	"	"
1,2,3-Trichloropropane	"	ND			0.5	"	"	"	"
1,2,4-Trimethylbenzene	"	ND			0.5	"	"	"	"
1,3,5-Trimethylbenzene	"	ND			0.5	"	"	"	"
Vinyl acetate	"	ND			0.5	"	"	"	"
Vinyl chloride	"	ND			0.5	"	"	"	"
Ylenes (total)	"	ND			1.0	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		97.5 %			28-129	"	"	"	"
Surrogate: Toluene-d8		79.6 %			52-150	"	"	"	"
Surrogate: 4-Bromofluorobenzene		74.1 %			43-155	"	"	"	"

Richy Jensen
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Report To: PROFESSIONAL SERVICE INDUSTRIES
4703 TIDEWATER AVENUE SUITE B
OAKLAND, CA 94601
Attention: FRANK POSS
Project: SOUTH OAKLAND 4G019

Lab No: 4050260
Reported: 05/25/04
Phone: 510-434-9200
P.O. #

TPH Gasoline

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1 Water (4050260-01)		Sampled:05/05/04 11:48	Received:05/06/04 10:38						
Gasoline	ug/l	ND			50.0	EPA 8015/8260	05/06/04	05/06/04	B4E0104
Surrogate: 4-Bromofluorobenzene		77.7 %		43-155		"	"	"	"
MW-2 Water (4050260-02)		Sampled:05/05/04 11:22	Received:05/06/04 10:38						
Gasoline	ug/l	ND			50.0	EPA 8015/8260	05/06/04	05/06/04	B4E0104
Surrogate: 4-Bromofluorobenzene		71.8 %		43-155		"	"	"	"
MW-3 Water (4050260-03)		Sampled:05/05/04 12:10	Received:05/06/04 10:38						
Gasoline	ug/l	270			50.0	EPA 8015/8260	05/06/04	05/06/04	B4E0104
Surrogate: 4-Bromofluorobenzene		85.2 %		43-155		"	"	"	"
MW-4 Water (4050260-04)		Sampled:05/05/04 10:55	Received:05/06/04 10:38						
Gasoline	ug/l	ND			50.0	EPA 8015/8260	05/06/04	05/06/04	B4E0104
Surrogate: 4-Bromofluorobenzene		74.1 %		43-155		"	"	"	"

Notes and Definitions

- QR-02 The RPD result for the MS/MSD exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- < Less than reporting limit
- ≤ Less than or equal to reporting limit
- > Greater than reporting limit
- ≥ Greater than or equal to reporting limit
- MDL Method Detection Limit
- RL/ML Minimum Level of Quantitation
- MCL/AL Maximum Contaminant Level/Action Level
- mg/kg Results reported as wet weight
- TTLIC Total Threshold Limit Concentration
- STLC Soluble Threshold Limit Concentration
- TCLP Toxicity Characteristic Leachate Procedure

Andy Jensen
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California D.O.H.S. Cert #1677

BASIC LABORATORY CHAIN OF CUSTODY RECORD

2218 Railroad Ave., Redding, CA 96001 (530) 243-7234 FAX (530) 243-7494

LAB #: 4050260

CLIENT NAME: PSI

PROJECT NAME: South Oakland

PROJECT #: 46019

SAMPLE TYPE: W

ADDRESS: on file

REQUESTED COMP. DATE: 5-20-04

STATE FORMS?

OF SAMPLES: 4

TURN AROUND TIME: STD RUSH

PAGE 1 OF 1

PROJECT MANAGER: Frank Poss

PHONE: 510 434-9200

FAX: 510 434-7676

E-MAIL:

INVOICE TO: Same

PO#:

SPECIAL MAIL E-MAIL FAX EDT

ANALYSIS REQUESTED	
# OF BOTTLES	
3	TPH-G
3	8260 w/ox
3	
3	

REP:

ID#:

SYSTEM#:

GLOBAL ID #: T0600101631

QC=1 2 3 4

DATE	TIME	WATER	COMP	SOIL	SAMPLE DESCRIPTION
5/5/04	11:48	X			MW-1
	11:22	X			MW-2
	12:10	X			MW-3
	10:55	X			MW-4

# OF BOTTLES																			
3	X	X																	
3	X	X																	
3	X	X																	
3	X	X																	

REMARKS: Brand. Burfield

@PSIUSA.com

RESERVED WITH: HNO3 H2SO4 NaOH ZnAcet/NaOH HCL NaThio OTHER

SAMPLED BY: Brian Stozek

DATE/TIME: 5/5/04 thru 2 day

RELINQUISHED BY: Brian Stozek

DATE/TIME: 5/5/04 17:00

RECEIVED BY:

DATE/TIME:

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY: (SAMPLES UNVERIFIED)

DATE/TIME:

RELINQUISHED BY:

DATE/TIME:

RECEIVED BY LAB: (VERIFIED) Rochelle M Krowilton

DATE/TIME: 5-6-04 10:38

SAMPLES SHIPPED VIA: UPS FEDEX POST BUS OTHER

INSTRUCTIONS, TERMS AND CONDITIONS ON BACK.