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Alameda County Environmental Health

April 7, 2010

Mr. Paresh Khatri **Alameda County Environmental Health Services**1131 Harbor Bay Parkway, Suite 250

Alameda, California 94502-6577

Subject:

1<sup>st</sup> Semi-Annual 2010 Groundwater Monitoring Report

Former AutoPro

5200 Telegraph Avenue Oakland, California

Case Number RO0000323 GeoTracker Global ID T0600100131 PSI Project No. 575-8G012

Dear Mr. Khatri:

Tri Star Partnership is pleased to submit the Semi-Annual Groundwater Monitoring Report for the subject site. Please refer to the attached report for details.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached Groundwater Monitoring Report are true and correct to the best of my knowledge, without independently investigating or verifying the information contained therein.

If you have any questions regarding this report or any aspect of the project, please call Mr. Frank Poss with PSI at 510-434-9200.

Sincerely,

George Tuma General Partner Tri Star Partnership

cc: Mr. Frank Poss, PSI



# 1<sup>ST</sup> SEMI-ANNUAL 2010 GROUNDWATER MONITORING REPORT

TEST ONLY SMOG STATION (FORMER AUTOPRO) 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA

# 1<sup>ST</sup> SEMI-ANNUAL 2010 GROUNDWATER MONITORING REPORT

TEST ONLY SMOG STATION (FORMER AUTOPRO) 5200 TELEGRAPH AVENUE OAKLAND, CALIFORNIA

prepared for

**Tri Star Partnership** 30 Arjang Court Alamo, California 94507

prepared by

Professional Service Industries, Inc. 4703 Tidewater Avenue, Suite B Oakland, California 94601

(510) 434-9200

April 19, 2010 575-8G012

# **TABLE OF CONTENTS**

STA	ATEMEN	T OF L	IMITATIONS AND PROFESSIONAL CERTIFICATION	i
1.0	INTROE	DUCTIO	ON	1
2.0	2.1 H	REVIO 2.2.1 2.2.2 2.2.3 2.2.4 2.2.5 2.2.6 2.2.7 2.2.8	ROUND  CIC SITE USE  DUS ENVIRONMENTAL SITE ACTIVITIES  Underground Storage Tank Removal - 1990  Limited Soil and Groundwater Investigation - 1993  Preliminary Site Assessment and Groundwater Monitoring  Site Assessment and Groundwater Monitoring - 1996  Remediation and Site Closure Report - 1999  Quarterly Monitoring and Utility Backfill Sampling - 2004  Site Recommendations From the ACEH - 2008  Addressing ACEH Recomendations  Workplan for Site Investigation	
	3.1 G 3.2 G 3.3 L 3.4 G	ROUN ROUN ABOR COORD	TER MONITORING ACTIVITIES  IDWATER ELEVATION AND HYDRAULIC GRADIENT  IDWATER SAMPLING  ATORY ANALYSES, RESULTS, AND DISCUSSION  DINATED SAMPLING WITH NEARBY CHEVRON SITE	
			S	
3.0	IXEI EIXI	LINOLO		12
FIG			LOCATION MAP UNDWATER ELEVATION MAP (MARCH 2, 2010)	
TAE	BLES BLE 1: BLE 2:		MARY OF GROUNDWATER ELEVATIONS MARY OF GROUNDWATER ANALYTICAL RESULTS	
<u>APF</u>	PENDICE	<u> </u>		
APF	PENDIX / PENDIX ( PENDIX (	B: LA C: CH	ROUNDWATER PURGE LOGS AND WATER LEVEL DATA ABORATORY REPORT AND CHAIN-OF-CUSTODY RECOR HEVRON #9-3864 GROUNDWATER ELEVATION / ANALYTI	_

#### STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

The information provided in this Groundwater Monitoring Report prepared by PSI, Project Number 575-8G012, is intended exclusively for Tri Star Partnership for the evaluation of groundwater contamination as it pertains to the subject site in Oakland, California at the time the activities were conducted. The professional services provided have been performed in accordance with practices generally accepted by other environmental professionals, geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface soil and groundwater sampling, there is no guarantee that the work conducted has identified any and all sources or locations of petroleum hydrocarbons or hazardous substances or chemicals in the soil or groundwater.

This report is issued with the understanding that Tri Star Partnership 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

Principal Consultant

Brand Burfield, PG 6986

BRAND W. BURFIELD

NO. 6986

Project Geologist

#### 1.0 INTRODUCTION

The Subject Property is an approximately 9,100 square foot, triangular-shaped parcel located at 5200 Telegraph Avenue, on the northeastern corner of Telegraph and Claremont Avenue in Oakland, Alameda County, California (see Figure 1 – Site Location Map). The site is asphalt-paved and is currently used as a smog testing facility ("Test Only SMOG Station") but was formerly an auto repair facility ("Autopro Inc.") and a Shell gasoline service station. The subject site formerly included five Underground Storage Tanks (USTs) which were removed from three separate excavation areas. The three excavations include an approximately 140 square-foot former waste oil UST excavation on the northeastern portion of the property, a 750 square-foot excavation which contained three former gasoline or diesel USTs near the center of the property, and a 450 square-foot former gasoline UST (and associated piping) excavation on the southern portion of the property. Locations of the existing site improvements and the former UST excavations are depicted on Figure 2.

This report summarizes the 1<sup>st</sup> Semi-Annual 2010 groundwater monitoring activities conducted on March 2, 2010, at the former UST site. The purpose of this project is to monitor petroleum hydrocarbon concentrations in groundwater to comply with the sampling requirements of the Alameda County Environmental Health Department (ACEH).

# 2.0 SITE BACKGROUND

Previous reports and investigations have been completed at the former UST site at 5200 Telegraph Avenue, Oakland, California, while the site was operated as Autopro, an automotive repair facility. The site is currently under the regulatory oversight of the ACEH and is identified by County Fuel Leak Case Number RO0000323 and State Geotracker Global ID T0600100131.

#### 2.1 HISTORICAL SITE USE

The property is currently developed with an active automotive smog testing station. According to regulatory documents reviewed, the Subject Property has been developed as an automotive service station since at least 1973. Information obtained at the Alameda County Department of Environmental Health indicates that the Subject Property was developed as a Shell gasoline service station until 1978 and has operated as an automotive service or smog testing station until present.

The following table summarizes the historic use of the Subject Property.

	Summary							
Year(s)	Interpreted Property Use							
1973, 1978	According to Street Directories the subject property is listed as Jordan Shell Service Station.							
1984, 1989, 1990, 1994	According to Street Directories the subject property is listed as Auto Pro Inc 2. In December 1990, five underground storage tanks (USTs) were removed from the site.							
1999, 2003	According to Street Directories the subject property is listed as Auto Pro Inc.							
2008	The subject property is Test Only SMOG Station.							

#### 2.2 PREVIOUS ENVIRONMENTAL SITE ACTIVITIES

This section summarizes the findings and conclusions of select previous environmental investigations and other pertinent documents (see references; Section 5) made available to PSI.

# 2.2.1 Underground Storage Tank Removal - 1990

Five USTs were removed from three different excavations at the subject site in December 1990 by Pacific Excavators (Pacific, 1991). Soil and groundwater samples collected from the UST fuel excavations contained levels of total petroleum hydrocarbons as gasoline (TPH-G), total petroleum hydrocarbons as diesel (TPH-D), benzene, toluene, ethylbenzene, total xylenes (BTEX), and total lead. In addition soil samples collected from the waste oil tank excavation contained concentrations of oil and grease (O&G). In addition, in 1991 soil was sampled and a small amount of contaminated soil was excavated and removed from the site (ESE, 1994).

### 2.2.2 Limited Soil and Groundwater Investigation - 1993

In April 1993, Environmental Science & Engineering Inc. (ESE) conducted a limited soil and groundwater investigation at the site. Two soil borings were drilled in the area of two former UST excavations through the backfill into native material, with soil and groundwater samples collected from the borings. Results of the investigation indicated concentrations of total semi-volatile petroleum hydrocarbons (TSVPH); these hydrocarbons were reported not to consist of diesel or gasoline (ESE, 1993).

#### 2.2.3 Preliminary Site Assessment and Groundwater Monitoring - 1994

ESE conducted a preliminary site assessment (PSA) of the property in April 1994. The investigation consisted of drilling four soil borings, installation of four monitoring wells (MW-1 through MW-4), and collection of soil and groundwater samples. According to the investigation, soil beneath the site consisted of silty clay to between approximately 10 and 13 feet below ground surface (bgs) and groundwater was found to be approximately 11 to

13 feet bgs. Soil and groundwater samples collected during the investigation were found to contain petroleum hydrocarbons (ESE, 1994).

According to the Second Quarter 1994 Groundwater Monitoring Report, groundwater flow direction at the site is bimodal and flows both to the southwest and east, dependant upon the location at the site. According to ESE this may have been a result of the high permeability of the backfill material in the former UST excavations. The data presented in the Second Quarter 1994 monitoring report indicated that petroleum hydrocarbons are migrating off-site to the southwest and concluded that the existing monitoring well network is not sufficient to determine the extent off-site migration (ESE, 1994).

# 2.2.4 Site Assessment and Groundwater Monitoring - 1996

ESE conducted an additional soil and water investigation (in addition to quarterly groundwater sampling) to determine the on and off-site extent of the soil and groundwater contamination. The 1996 study included seven geoprobe soil borings which were drilled and sampled; a total of 14 soil and seven groundwater samples were collected during the investigation. A concentration of 1.5 mg/kg TPH-G was detected in the sample collected from boring AP-2 at 10 feet. The remaining soil samples were non-detect for all constituents of concern. TPH-D was detected at concentrations ranging from 190 and 74,000  $\mu$ g/l in groundwater samples from AP-1, AP-2, AP-3, and AP-6. TPH-G was detected at concentrations ranging between 1,400 and 14,000  $\mu$ g/l in groundwater samples from AP-1, AP-2 and AP-3. TPH-MO was detected at a concentration of 1,900  $\mu$ g/l in the groundwater sample from AP-6. In addition BTEX constituents were detected in groundwater samples from AP-1, AP-2, and AP-3. MTBE was detected at concentrations of 60  $\mu$ g/l and 100  $\mu$ g/l in groundwater samples from AP-2 and AP-3 (ESE, 1996).

Second Quarter 1996 groundwater monitoring activities at the site included sampling of monitoring wells MW-1 through MW-4. TPH-G and TPH-D were detected in MW-1, MW-3, and MW-4. BTEX constituents and MTBE were detected in MW-3 and MW-4 (ESE, 1996).

#### 2.2.5 Remediation and Site Closure Report - 1999

In 1998, with approval from the ACEH, it was determined that oxygen release compounds (ORCs) would be introduced into MW-3 and MW-4 to enhance the biodegradation of the contaminant plume at the site. ORCs were placed in MW-3 and MW-4 on March 23, 1998 by QST Environmental (QST). This resulted in a slight increase of BTEX and TPH immediately after the installation of the ORCs. According to QST, the increase in hydrocarbons may have been a result of the increase in the groundwater table elevation; the increased elevation may have caused a mobilization of additional petroleum hydrocarbon constituents from the capillary fringe thus increasing concentrations. Constituents have declined or stabilized since the removal of the

ORCs, and as such, QST determined that constituent reduction and degradation was enhanced by the ORC (QST, 1999).

QST conducted a risk assessment as part of their site closure report. The evaluation focused on MW-1 through MW-4, the closest wells to the source. Concentrations of constituents in MW-5 (a nearby off-site Chevron well) indicate that the plume has stabilized in the downgradient (southwest) direction. The risk assessment was tied to the identification of the constituents of concern, potential pathways in environmental media, and potential receptors of exposure. According to the report the objectives of the site conceptual model have been realized through the identification of soil and groundwater as the environmental media for remedial action via soil vapor extraction and water entrainment. Receptors of potential exposure were based on residential land use and groundwater as a drinking water resource (QST, 1999).

Based on the 1996 ESE site investigation report, off-site soil between the Chevron Station and the subject property did not appear to be impacted by hydrocarbon contamination. Groundwater samples collected at the time of the 1996 investigation indicated concentrations of TPH-G, TPH-D, BTEX, and MTBE. Based on a 1996 soil vapor study, the Autopro plume and the Chevron plume are intermingled and the downgradient concentrations could not be accurately ascertained.

Based on exposure and toxicity assessments as part of the risk assessment, and since the site is surfaced with asphalt and concrete, repeat exposure to the constituents of concern is unlikely. The Environmental Protection Agency (EPA) Preliminary Remediation Goal (PRG) for industrial properties for benzene was exceeded in one soil sample collected in 1996. According to QST, the absence of benzene in groundwater at the site eliminates the possibility of vertical migration upward into soil vapor (QST, 1999).

#### 2.2.6 Quarterly Monitoring and Utility Backfill Sampling – 2004

According to Second Quarter 2004 sampling data TPH-G was detected at concentrations of 530, 33,000, and 1,700  $\mu$ g/l in MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 56 and 1,200  $\mu$ g/l in MW-1 through MW-4. Ethylbenzene was detected at concentrations of 0.67  $\mu$ g/l in MW-4 and total xylenes were detected at concentrations of 5.6 and 1.22  $\mu$ g/l in MW-3 and MW-4. Total petroleum hydrocarbons as motor oil (TPH-MO), benzene, toluene and fuel oxygenates were not detected during the sampling event. Monitoring well MW-5, was damaged at the time of sampling, thus was not sampled (MACTEC, 2004).

According to Third Quarter 2004 sampling data TPH-G was detected at concentrations of 260, 13,000, and 1,800  $\mu$ g/l in MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 74 and 2,500  $\mu$ g/l in MW-1 through MW-4. TPH-MO, BTEX, and fuel oxygenates were not detected during the Third Quarter Sampling event (MACTEC, 2004).

In August 2004, two borings were advanced to approximately 16 feet bgs adjacent to the sanitary sewer line and storm drain line to investigate if the utility corridor was a conduit for contamination migration. This investigation was performed at the request of the ACEH in a letter dated December 24, 2002. The intent of the investigation was to obtain grab groundwater samples from each of the utility trench backfills. However, the boring adjacent to the sanitary sewer line was dry. Therefore, samples were obtained only from the storm drain backfill. The samples collected from the storm drain backfill were tested for TPH-G, TPH-D, benzene, toluene, ethylbenzene and xylenes were detected at concentrations of 57,000, 29,000, 9.5, 36, 11, and 29  $\mu$ g/l respectively. Concentrations of contaminants of concern in the areas explored suggest that the release from the site has migrated to the utility trenches, which have acted as a preferential pathway for the contaminants (MACTEC, 2004).

According to the Second and Third Quarter 2004 Monitoring Report (MACTEC, 2004) the slotted casing in each of the wells (MW-1 through MW-4) is below the groundwater level. Since the interval of slotted casing in a well should span the surface of the groundwater aquifer being monitored, the slotted casing in these wells is considered to have been improperly placed at construction. The report indicates that, while these improperly placed slotted intervals will likely have little impact in the monitoring of groundwater levels and contaminant trends, they may adversely affect the ability to determine the presence of free floating product in groundwater at the site.

According to Fourth Quarter 2004 sampling data TPH-G was detected at concentrations of 710, 5,100, and 2,300  $\mu$ g/l in monitoring wells MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 53 and 3,300  $\mu$ g/l in all wells except Chevron well MW-2. TPH-MO was detected at concentrations of 450 and 1,400  $\mu$ g/l in MW-1 and MW-4. Benzene concentrations in MW-3 exceeded the California State Drinking Water Standard Maximum Contaminant Level (MCL) of 1.0  $\mu$ g/l; the remaining BTEX concentrations did not exceed MCLs for this sampling event. Groundwater flow at the time of sampling was to the northeast which is inconsistent with historical flow to the south/southwest; the reason for the change was unknown and was thought to be a result of heavy rainfall (MACTEC, 2005).

#### 2.2.7 Site Recommendations From the ACEH - 2008

According to a letter from the Alameda County Environmental Health Services Department, dated March 28, 2008, analytical data from the Fourth Quarter 2004 Groundwater Monitoring Report was determined to be insufficient since all monitoring wells at the site have their slotted casing below groundwater. Depth to groundwater at the site ranges between 8 and 13 feet bgs; however MW-1 is screened from 15-30 feet and MW-2, MW-3, and MW-4 are screened between 15-25 feet. The ACEH expressed concerns that concentrations of contaminants detected in the groundwater samples may not be representative of actual site conditions. In addition, grab groundwater samples collected at a nearby cross-gradient site in 2007 indicated concentrations of TPH-G in

all three samples. The ACEH stated that further evaluation of preferential pathways and additional off-site plume delineation is warranted at the site and that hydrocarbon concentrations in downgradient well MW-3 warranted further characterization of the onsite plume. Since groundwater monitoring at the site had not been conducted since Fourth Quarter 2004, the ACEH recommended that quarterly monitoring be initiated and the wells be re-developed at the site. In addition it was recommended that a new site conceptual model be developed for the subject property and that all analytical data from 2001 onward be submitted via the SWRCB Geotracker website, with all reports from July 1, 2005 onward be submitted to the website as well (ACEH, 2008).

#### 2.2.8 Addressing ACEH Recommendations

On December 16, 2008, all four monitoring wells (MW-1 through MW-4) were redeveloped via the surge-block method to remove silt or clay from the surrounding formation that were caught in the filter pack, and to improve groundwater flow into the monitoring well. After the surge, the wells were purged to remove suspended sediment from the well and to encourage new water to flow into the well from the surrounding soil formation. This series of procedures was repeated three times to each of the monitoring wells with the exception of MW-1 in which the block became lodged at 14 feet. Fortunately, the well recharged easily during purging, suggesting that the filter pack and screen are in good working order.

ACEH was concerned that the "drowned wells" are affecting the detected contaminant concentrations in the wells. On December 22, 2008, the groundwater level was at approximately 8 feet below ground surface (bgs). The references reviewed indicate that the wells are screened from 15-25 feet bgs, with the exception of MW-1 which is screened from 15-30 feet bgs. Based on this data, the top of the screens remain below groundwater levels. While we are in agreement that "drowned wells" would affect the ability to detect product (i.e. fuel or oil) floating on top of the groundwater table, in the absence of floating product, this is not expected to significantly affect the monitoring of dissolved hydrocarbon contaminants in groundwater beneath the site either from a qualitative (ability to detect) or quantitative (detected concentrations) standpoint. We have seen no mention in the references reviewed and no indication from historical analytical data that there is, or has been, free floating product on groundwater at the site. As such, it is our opinion that the ability to accurately detect contaminant concentrations in the on-site wells is not a concern, despite their incorrect installation.

During groundwater sampling, the bottom of each well was sounded to determine the total depth. It was determined that the sounded depths below the top of casing are 26.07, 24.69, 14.54, and 15.69 feet for MW-1 through MW-4 respectively. With the exception of MW-2, these measured depths do not agree with the installation data for the wells; the depths of MW-1, MW-3, and MW-4 all measure to be about 5 to 10 feet <u>less</u> than their stated depth at installation.

There are several possible causes for the discrepancy between the installed and sounded depths of these wells;

- 1. Incorrect installation data.
- 2. Blockage (with a bailer for example).
- 3. Filling of the well casing (by siltation or man-made fill)

Sometime between the ESE 1996 report and the MACTEC 2004 monitoring report, wells MW-3 and MW-4 have "lost" 10 feet of depth. Since the sounded depths of MW-3 and MW-4 would put the current bottom of the well at or above the installed slotted casing, and since both of these wells had no problems producing groundwater, the most likely causes of the discrepancy are either incorrect installation data or a partial blockage of the wells.

#### 2.2.9 Workplan for Site Investigation

On June 8, 2009, PSI submitted the "Workplan for Site Investigation" in response to the ACEH letter dated March 28, 2008, addressing the following concerns:

- 1. Monitoring Wells and Hydrologic Setting
- 2. Preferential Pathway Study
- 3. Groundwater Contaminant Plume Definition
- 4. Contaminant Source Area Characterization
- 5. Groundwater Contaminant Plume Monitoring
- 6. Site Conceptual Model
- 7. GeoTracker Compliance

In a letter dated June 26, 2009, the ACEH generally concurred with PSI's findings and scope of work outlined in the Workplan and requested that the proposed work and associated reports be undertaken. Additionally, the letter stated that semi-annual monitoring frequency is appropriate for the site.

#### 3.0 GROUNDWATER MONITORING ACTIVITIES

#### 3.1 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT

Prior to sampling, the depth to groundwater in each monitoring well was measured in accordance with the field procedures outlined in Section 3.2 using an electric water level indicator. Water levels are read from the top of the monitoring well casing (TOC) to an accuracy of 0.01 foot. This is performed in order to calculate the groundwater elevations and to determine the groundwater gradient. Before and after each use, the water level indicator was decontaminated to prevent cross-contamination of the wells.

Depth to groundwater, measured on March 2, 2010, and calculated groundwater elevations are presented in Table 1. Groundwater contours representing interpreted water levels beneath the site are shown on Figure 2. Historically the groundwater flow direction at the subject property has been generally toward the southwest. Southwestern groundwater flow is consistent with data obtained from groundwater monitoring reports for three nearby monitoring sites within 1,000 feet of the subject property. Based on the data from the nearby sites, from historic subject property reports, and from review of the USGS topographic map, it is expected that the groundwater flow is to the southwest, towards the San Francisco Bay. The groundwater level from MW-4 was not used for this gradient and direction calculation because the level conflicted with the other three monitoring wells and produced an improbable flow direction. Based on the water level measurements obtained, the groundwater flow direction at the subject site is generally toward the southwest with a hydraulic gradient of approximately 0.006.

#### 3.2 GROUNDWATER SAMPLING

On March 2, 2010, groundwater samples were collected from monitoring wells MW-1 through MW-4 at the project site. 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 a groundwater interface probe to an accuracy of 0.01 foot. The measurements were made to the top of the well casing on the north side.
- 3. The monitoring wells were purged of a minimum of three well volumes of water until pH, conductivity, and temperature stabilized. The wells were purged with a new, single-use dedicated bailer.
- 4. Water samples were collected with a single-use disposable bailer after the well had been purged. The water collected was immediately decanted into laboratory-

- supplied vials and bottles. The containers were filled, capped, labeled, and placed in a chilled cooler prior to delivery at 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 at the laboratory for analyses.
- 6. Purged water was contained in a DOT approved 55-gallon drum and left on site for proper disposal. The drum was labeled with the contents, date, well number, client name, and project number.

The purge logs are presented in Appendix A.

#### 3.3 LABORATORY ANALYSIS, RESULTS, AND DISCUSSION

Four groundwater samples were submitted for analysis to SunStar Laboratories, Inc of Lake Forest, California, a State of California certified environmental analytical laboratory. The samples were analyzed for the following:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G) using EPA Method 8015M
- Total Petroleum Hydrocarbons as Diesel (TPH-D) using EPA Method 8015M
- Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) using EPA Method 8015M
- Volatile Organic Compounds (VOCs) including fuel oxygenates using EPA Method 8260B

The following are the results of the groundwater analysis:

- TPH-G was detected above the laboratory reporting limit of 50 micrograms per liter (μg/L) in the groundwater samples from MW-3 (4,500 μg/L) and MW-4 (860 μg/L).
- TPH-D was detected above the laboratory reporting limit of 50 μg/L in the groundwater samples from MW-3 (1,000 μg/L) and MW-4 (370 μg/L).
- TPH-MO was not detected above the laboratory reporting limit of 100 micrograms per liter (μg/L) in the any of the groundwater samples.

- VOCs associated with hydrocarbon contamination were detected above their respective laboratory reporting limit in the groundwater samples collected from three of the four wells, including;
  - Benzene at 0.80 μg/L in MW-3
  - Ethylbenzene at 2.1 μg/L in MW-3 and 0.57 in MW-4
  - Toluene at 2.0 μg/L in MW-3
  - Total Xylenes at 4.1 μg/L in MW-3

A summary of the laboratory results for groundwater samples is presented in Table 2. Copies of the laboratory report and chain of custody records are presented in Appendix B.

The groundwater analytical results were compared to their respective San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for Residential Land Use where and groundwater is a drinking water resource. Groundwater samples MW-3 and MW-4 had the following constituents greater then their respective ESL;

- TPH-G (ESL of 100 µg/L) in MW-3 and MW-4
- TPH-D (ESL of 100 μg/L) in MW-3 and MW-4

#### 3.4 COORDINATED SAMPLING WITH NEARBY CHEVRON SITE #9-3864

As requested by ACEH in a letter dated June 26, 2009, groundwater monitoring was coordinated for the subject site and the nearby Chevron site (5101 Telegraph Avenue) to both be performed on March 2, 2010. Gettler-Ryan, Inc. performed the groundwater monitoring at the Chevron site. Copies of the Chevron site's Groundwater Elevation and Analytical Table and Site Map are presented in Appendix C.

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

PSI conducted groundwater monitoring activities on March 2, 2010. The results of the monitoring event are summarized below.

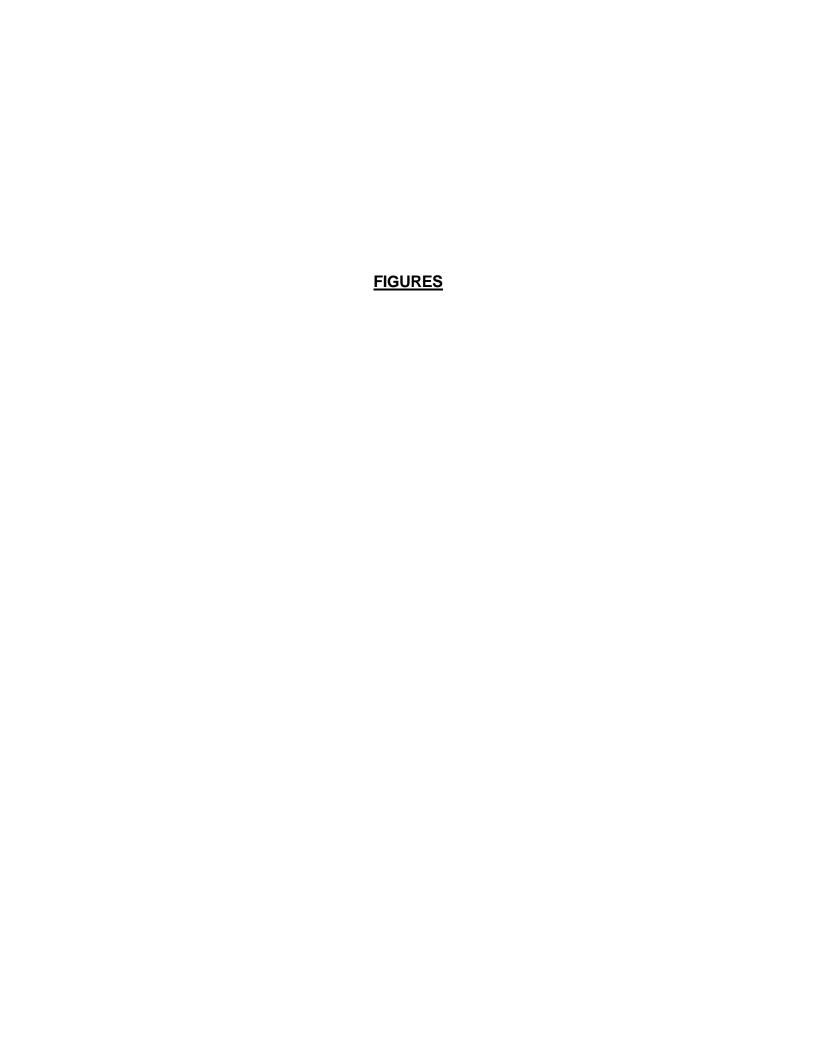
- Based on our field measurements, groundwater at the site flows generally toward the southwest under a hydraulic gradient of 0.006.
- TPH-G was detected in the groundwater samples from monitoring wells MW-3 and MW-4.
- TPH-D was detected in the groundwater samples from monitoring wells MW-3 and MW-4.
- TPH-MO was not detected in any of the groundwater samples.
- VOCs were detected in all the groundwater samples with the exception of monitoring well MW-2.
- The groundwater samples from MW-3 and MW-4 had TPH-G and TPH-D above their respective ESL.
- None of the groundwater samples had VOCs above their respective ESL.

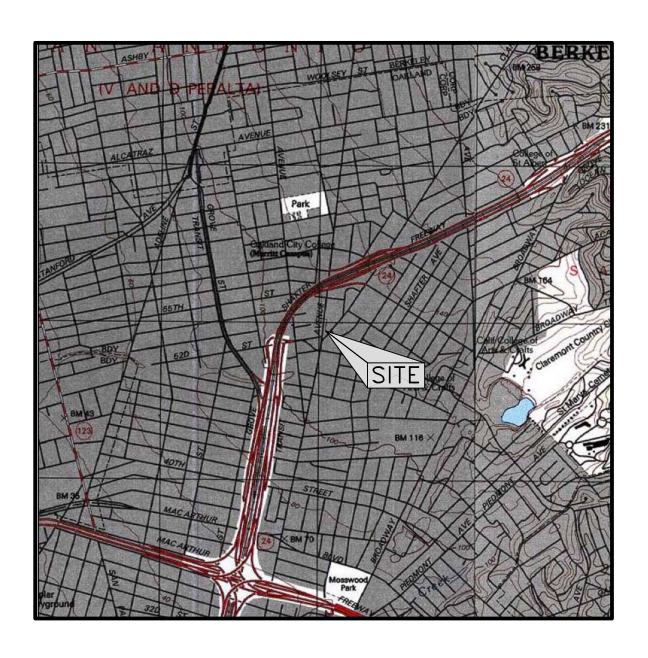
Based on the soil and groundwater analytical results, it appears that TPH-G, TPH-D and VOC impacted groundwater is present in the area of the former UST excavations. The groundwater flow direction has primarily been to the southwest.

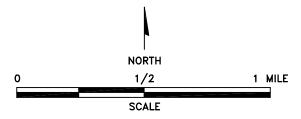
PSI recommends that semi-annual groundwater monitoring at the site continue until case closure has been granted. Additionally, the Workplan submitted by PSI on June 8, 2009 and approved by the ACEH, should be implemented as soon as is feasible.

#### 5.0 REFERENCES

- 1. Pacific Excavators, January 24, 1991, "Autopro soils report, 5200 Telegraph Avenue, Oakland, California."
- 2. Environmental Science & Engineering, Inc, April 19, 1993, "Auto Pro 5200 Telegraph Avenue, Oakland, California."
- 3. Environmental Science & Engineering, Inc, August 16, 1994, "Second Quarter Groundwater Monitoring Report, Remedial Investigation, 5200 Telegraph Avenue, Oakland, California."
- 4. Environmental Science & Engineering, Inc, September 5, 1996, "Additional Soil and Groundwater Investigation and Second Quarter 1996 Groundwater Monitoring Report, 5200 Telegraph Avenue, Oakland, California
- 5. US Geological Survey (USGS), 1997 Oakland West Quadrangle, California, 7.5 Minute Series (topographic), United States Department of the Interior, Scale: 1:24,000.
- 6. QST, Inc, July 8, 1999, "Site Closure Report Auto Pro, 5200 Telegraph Avenue, Oakland, California."
- 7. MACTEC, November 30, 2004, "Quarterly Monitoring Second and Third Quarters and Backfill Sampling Summary, Auto Pro Site 5200 Telegraph Avenue, Oakland, California"
- 8. MACTEC, February 10, 2005, "Quarterly Monitoring Fourth Quarter, Auto Pro Site 5200 Telegraph Avenue, Oakland, California"
- Alameda County Health Care Services Agency, Environmental Health Services Department (ACEH), March 28, 2008, "Fuel Leak Case No. RO0000323 and Geotracker ID T0600100131, Auto Pro 5200 Telegraph Avenue, Oakland, California.
- 10. PSI, Inc., June 8, 2009, "Workplan for Site Investigation, Test Only Smog Station (Former Autopro), 5200 Telegraph Avenue, Oakland, California, Fuel Leak Case No. RO0000323, Geotracker ID T0600100131, PSI Project No. 575-8G012."
- 11. ACEH, March 28, 2008, "Fuel Leak Case No. RO0000323 and Geotracker ID T0600100131, Auto Pro, 5200 Telegraph Avenue, Oakland, CA 94609.
- 12. ACEH, June 26, 2009, "Fuel Leak Case No. RO0000323 and Geotracker ID T0600100131, Auto Pro, 5200 Telegraph Avenue, Oakland, CA 94609.







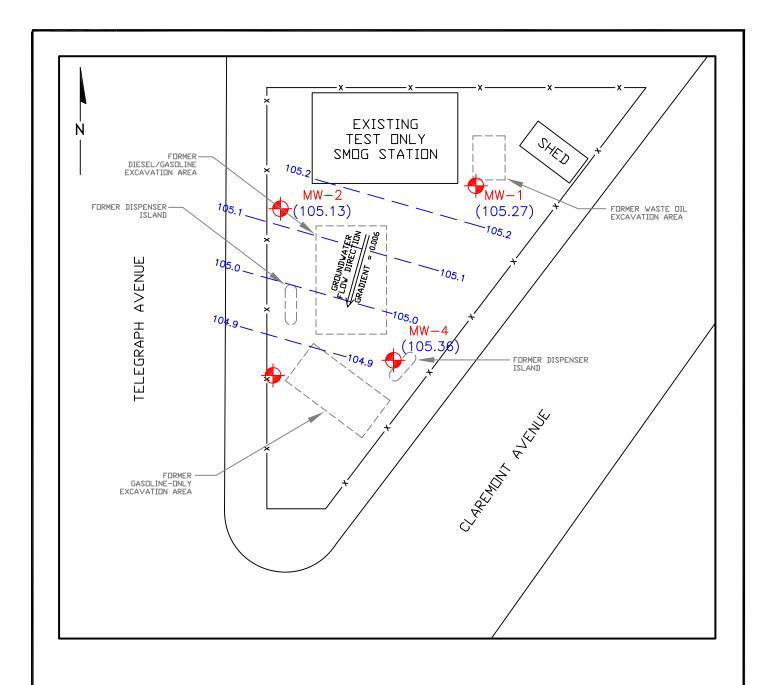
#### **REFERENCE:**

U.S.G.S. OAKLAND WEST, CALIFORNIA, 7.5 MINUTE SERIES TOPOGRAPHIC MAP, DATED 1997.

	Information
	To $Build$ $On$
$Engineering \circ Co$	nsulting • Testing

4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200

Project Name: SMOG ONLY TEST STATION (FORMERLY AUTOPRO) 5200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA	Drawn By: E.R.	l	File No.: 9G012-01	Figure No.:
SITE LOCATION MAP	Approved By: F.P.		8G012	



# **LEGEND**



GROUNDWATER MONITORING WELL LOCATION (GROUNDWATER ELEVATION GIVEN IN FEET MSL) 15 30 60 SCALE IN FEET

- INTERPRETED LINE OF EQUAL GROUNDWATER ELEVATION (INDICATED IN FEET MSL)

- FENCE

1. MW-4 WAS NOT USED IN GRADIENT CALCULATION.

2. BASE MAP TAKEN FRUM MACTEC, GROUNDWATER CUNTUUR MAP – 12/14/04, PLATE 3, AUTUPRO INC., PROJECT NO: 4095041620 03.

psi	Information To Build On
Engineering ullet Co	onsulting ullet Testing

4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200

Project Name: AUTOPRO 5200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA	Drawn By: E.R.	File No.: 8G012-1SA10	Figure No.:
GROUNDWATER ELEVATION MAP MARCH 2, 2010	Approved By: B.B.	8G012	2



# TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS Test Only SMOG Station (Former Autopro) 5200 Telegraph Avenue, Oakland, CA

Well Number	TOC Elevation (ft msl)	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft msl)
MW-1	115.44	12/22/08	11.67	103.77
		3/4/09	8.50	106.94
		5/1/09	12.58	102.86
		7/20/09	13.30	102.14
		3/2/10	10.17	105.27
MW-2	114.62	12/22/08	10.96	103.66
		3/4/09	7.83	106.79
		5/1/09	11.91	102.71
		7/20/09	12.64	101.98
		3/2/10	9.49	105.13
MW-3	113.77	12/22/08	10.30	103.47
		3/4/09	7.22	106.55
		5/1/09	11.30	102.47
		7/20/09	11.93	101.84
		3/2/10	8.94	104.83
MW-4	114.25	12/22/08	10.36	103.89
		3/4/09	7.47	106.78
		5/1/09	10.97	103.28
		7/20/09	11.56	102.69
		3/2/10	8.89	105.36

#### Notes:

ft msl = feet with respect to mean sea level

**TABLE 2** 

# SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Test Only SMOG Station (Former Autopro) 5200 Telegraph Avenue, Oakland, CA

Sample Number	Date	TPH-G	TPH-D	ТРН-МО	Benzene	n-Butyl- benzene	sec-Butyl- benzene	tert-Butyl- benzene	Isopropyl- benzene	Ethyl- benzene	p- Isopropyl- toluene	Naph- thalene	n-Propyl- benzene	Toluene	1,2,4- Trimethyl- benzene	1,3,5- Trimethyl- benzene	Total Xylenes
MW-1	12/22/08	390	150	<100	<0.5	5.5	3.9	<1.0	3.2	<0.5	<1.0	2.0	7.3	<0.5	<1.0	<1.0	<1.5
	3/4/09	360	64	<100	<0.5	1.8	1.8	<1.0	1.3	0.63	<1.0	1.3	2.8	<0.5	<1.0	<1.0	1.1
	5/1/09	120	130	<100	<0.5	1.5	2.0	<1.0	1.3	<0.5	<1.0	<1.0	2.8	<0.5	<1.0	<1.0	<1.5
	7/20/09	<50	110	330	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	1.3	<0.5	<1.0	<1.0	<1.5
	3/2/10	<50	<50	<100	<0.5	1.1	1.7	<1.0	1.1	<0.5	<1.0	<1.0	2.1	<0.5	<1.0	<1.0	<1.5
MW-2	12/22/08	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/4/09	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	0.76	<1.0	1.4	<1.0	<0.5	1.1	<1.0	1.7
	5/1/09	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	7/20/09	<50	59	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/2/10	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
MW-3	12/22/08	3,600	1,400	<100	<0.5	<1.0	<1.0	<1.0	39	<0.5	14	<1.0	60	<0.5	<1.0	23	9.8
	3/4/09	3,400	1,000	<100	2.2	17	7.4	<1.0	34	3.9	8.3	2.5	67	3.1	<1.0	1.8	8.68
	5/1/09	2,700	1,700	<100	<0.5	20	7.2	<1.0	21	2.2	7.5	<1.0	44	1.2	<1.0	<1.0	3.9
	7/20/09	2,100	1,400	<100	<0.5	19	9.8	<1.0	25	1.5	5.6	1.0	57	1.1	<1.0	<1.0	4.5
	3/2/10	4,500	1,000	<100	0.80	<1.0	8.8	<1.0	26	2.1	6.6	<1.0	58	2.0	<1.0	<1.0	4.1
MW-4	12/22/08	1,200	700	<100	<0.5	18	9.3	<1.0	10	<0.5	9.0	<1.0	21	<0.5	<1.0	<1.0	<1.5
	3/4/09	1,300	410	<100	<0.5	8.4	6.2	1.0	11	1.1	3.6	1.7	22	<0.5	<1.0	<1.0	1.2
	5/1/09	590	400	<100	2.6	6.4	4.8	<1.0	5.8	9.4	2.1	21	13	<0.5	<1.0	<1.0	<1.5
	7/20/09	440	260	<100	<0.5	4.4	3.5	<1.0	3.8	<0.5	1.6	<1.0	7.9	<0.5	<1.0	<1.0	<1.5
	3/2/10	860	370	<100	<0.5	<1.0	4.0	<1.0	4.3	0.57	2.0	<1.0	7.6	<0.5	<1.0	1.9	<1.5

#### Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

The units for all presented values are  $\mu g/L = Micrograms$  per liter

< = The "less than" symbol indicates not detected above the laboratory reporting limit shown.

All VOCs not listed were below laboratory reporting limit.

# APPENDIX A

GROUNDWATER PURGE LOGS AND WATER LEVEL DATA

		FLU	ID MEAS	UREMENT	FIELD D	ATA		
							SHEET: 1 C	OF 1
DATE:	3/2/2010	PROJECT NAME:	Tristar	·	·	PROJECT NO: 57	75-8G012	
WATER LEVEL N	MEASUREMENT INS	TRUMENT:	SOLINST			SERIAL NO:	12080	
PRODUCT DETE	CTION INSTRUMEN	IT:				SERIAL NO:		
EQUIP. DECON:	☐ ALCONOX	WASH X DIST	/DEION 1 RINSE	☐ ISOPROPANOL	☐ ANALYTE	FREE FINAL RINSE	☐ TAP WATER FI	NAL RINSE
☐ TAP WA	TER WASH	LIQUINOX WASH	☐ DIST/DEIG	ON 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		115.44	10,17 -	BUHA CA	26.03			10:29
MW-2		114.62		9,49	24.69			10:26
MW-3		113.77		8,94	14.37			10:35
MW-4		114.25		8.89	15.69			10:32
Wells	Opened	9:45-	10:00	*				
	1							
			-		i	•		
			<del></del> -	, i				
			·					
			<del></del>		,			
			**					
			·-				**	-
-				<u> </u>	ņ			
		-						
REMEMBER TO COR	RECT PRODUCT THICK	NESS FOR DENSITY BE	FORE CALCULATING I	WATER TABLE ELEVATI	ON	PREPARED BY:	EZEKIEL ROBLES	

WELL PURGII	NG AND SAMPLING DATA
	WELL NO: MW-1
DATE: 3/2/2010 PROJECT NAME: TRISTAR	PROJECT NO: 575-8G012
WEATHER CONDITIONS:	
WELL DIAMETER (IN.) 1 X 2	4 6OTHER
SAMPLE TYPE: X GROUNDWATER	STEWATER SURFACE WATER OTHER
WELL DEPTH (TOC) 26.03 F	T. DEPTH TO WATER BEFORE PURGING (TOC) $10, 17$ FT.
LENGTH OF WATER 15,86 F	T CALCULATED ONE WELL VOLUME <sup>1</sup> : 2. ス GAL
PURGING DEVICE: POLY BAILER	X DEDICATED X DISPOSABLE ☐ DECONTAMINATED
SAMPLING DEVICE: POLY BAILER	☑ DEDICATED ☑ DISPOSABLE ☐ DECONTAMINATED
EQUIP. DECON. TAP WATER WASH	☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE
ALCONOX WASH  X DIST/DEION 1 RINSE  X LIQUINOX WASH  DIST/DEION 2 RINSE	
CONTAINER PRESERVATION: X LAB PRESERVE	
WATER ANALYZER MODEL & SERIAL NO:	Луron L 6P Serial #
ACTUAL CUMUL. TEMP SPECIFIC pH  TIME VOLUME	DEPTH WATER REMARKS TO GROUND APPEAR (EVIDENT ODOR, COLOR, PID) WATER CL=CLEAR CO=CLOUDY TU=TURBID
11:34 INITIAL 18.6 591.9 6.58	
11:39 3.0 18,7 584.2 6.59	
11:45 6.0 18.7 569.0 6,58	
11:54 9.0 18.8 553,1 6.61	11 7 / Clean
DEPTH TO WATER AFTER PURGING (TOC)	FT. SAMPLE FILTERED YES NO SIZE
NOTES:	SAMPLE TIME: /2', 0 0 ID# 1/1 W-/
	DUPLICATE   TIME: ID#:
	EQUIP. BLANK: TIME: ID#:  PREPARED BY: EZEKIEL ROBLES

<sup>1</sup> 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

		V	VELL P	URGIN	IG AN	NA2 C	<b>IPLING</b>	DATA		
							WELL N	IO: MW-2		
DATE:	3/2/2010	PROJEC	CT NAME: TI	RISTAR			PROJE	CT NO: 575-8	G012	
WEATHER	R CONDITI	ONS:	Raini	119						
WELL DIA	METER (II	٧.)	1	X 2	□ 4	□ 6	OTHER			
SAMPLE	TYPE: [	X GROUNI	DWATER	☐ WAS	EWATER	SUF	RFACE WATE	R OTHE		
WELL DEI	тн (тос)	2	4.69	FT	. DEPTH 1	TO WATER	R BEFORE PU	JRGING (TOC)	9,49	FT.
LENGTH (	OF WATER	1	5,2	FT	CALCUL	ATED O	NE WELL VO	DLUME <sup>1</sup> :	7.6	GAL.
PURGING	DEVICE:	PC	DLY BAILER		X DEDIC	CATED	X DISPOSA	BLE DECO	NTAMINATED	
SAMPLIN	G DEVICE:	: PC	DLY BAILER		X DEDIC	CATED		BLE DECO		
EQUIP. DI		_	P WATER W			ISOPROF		ANALYTE FRE		
	CONOX WA		X DIST/DEK	ON 1 RINSE ON 2 RINSE			ER FINAL RIN	DIST/DEION FI	NAL RINSE DRY	
<del></del>	ER PRESE			PRESERVE		PRESER			<del>-</del>	
WATER A	NALYZER	MODEL &	SERIAL NO	: M	ron L 6P S	erial#	6026	592		
ACTUAL TIME	CUMUL. VOLUME	TEMP □ °F	SPECIFIC CONDUCT.	рH	DEPTH TO GROUND		WATER APPEAR	(EVIDE	REMARKS NT ODOR, COLOR, PID)	
(MIN)	PURGED (GAL)	X °C	MS		WATER		CL=CLEAR CO=CLOUDY TU=TURBID			
10:52	INITIAL	18.0	539,2	6,17			CL	No Odor	16lear	
10:56	3.0	18.7	537.5	6,27			11	//	//	
11:02	6.0	18.6	5 25.4	6.33			11	//	11	
11:08	9,0	18.8	516,5	6.33			11	11	11	
						!		ļ		
							-			
									·	
	0.1414.===		150015 75	<u></u>					10. 0175	
	U WATER	AFTER PL	JRGING (TO	Ψ)				☐ YES ☒ N	MW-2	
NOTES:					SAMPLE 1		7.7.S TIME:	<u>ID#</u> 	10100 - 2	
					EQUIP. BL			ID#: ID#:		
					PREPARE			EL ROBLES		

Well Purging And Sampling Data Rev. 3/07

<sup>&</sup>lt;sup>1</sup> 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

		1	<b>NELL</b> P	URGIN	IG ANI	SAN	<b>IPLING</b>	DATA		
							WELL N	O: MW	-3	
DATE:	3/2/2010	PROJE	CT NAME: TI	RISTAR			PROJEC	CT NO: 575	-8G012	
WEATHE	R CONDIT	IONS:								
WELL DI	AMETER (II	N.)	<u> </u>	X 2	□ 4	□ 6	OTHER			
SAMPLE	TYPE:	X GROUN	DWATER	☐ WAST	EWATER	SUF	RFACE WATER	R 🗌 ОТН	ER	
WELL DE	PTH (TOC	) 1	4.37	FT	DEPTH T	O WATER	R BEFORE PU	RGING (TOC	8.94	FT.
LENGTH	OF WATER	₹	5.43	FT	CALCUL	ATED O	NE WELL VO	LUME <sup>1</sup> :	0.92	GAL.
PURGING	3 DEVICE:	P	OLY BAILER		X DEDIC	ATED	X DISPOSAI	BLE DEC	ONTAMINATED	
SAMPLIN	IG DEVICE	: P	OLY BAILER	ň	X DEDIC	· ·		BLE DEC	ONTAMINATED	
EQUIP. C			AP WATER W		=	ISOPROP			EE FINAL RINSE	
ı =	W XONOO. W XONIUQ		■ DIST/DEI	ON 1 RINSE			OLVENT 💢 ER FINAL RIN		IR DRY	
			l: X LABI							
WATER A	NALYZER	MODEL 8	SERIAL NO		ron L 6P Se	erial #	*1,			
ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP □ °F X °C	SPECIFIC CONDUCT.	рН	DEPTH TO GROUND WATER		WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	(EVIE	REMARKS DENT ODOR, COLOR, PID)	
12:47	INITIAL	18.8	292.4	660			CL	HC Od	or / Clear	
12:50	1 0	19,2		6.68			20	11	1 Grey	
12:53	2.0	193	287,0	6.69	·		11	11	1)	
12:56	3.5	19.3	288.2	6.70			11	/1	//	
					:					
			ļ							
<del> </del>	O WATER	AFTER PI	JRGING (TO	C)		L	FILTERED			
NOTES:					SAMPLE T				mW-3	
					DUPLICAT	E L	TIME:	ID#:		
					EQUIP. BL	A NUZ.	TIME:	ID#:		

Well Purging And Sampling Data Rev. 3/07

<sup>1</sup>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

		1	NELL P	URGIN	IG ANI	SAN	<b>IPLING</b>	DATA		
							WELL N	O: MW-4		
DATE:	3/2/2010	PROJE	CT NAME: T	RISTAR			PROJEC	CT NO: 575-8G0	12	
WEATHER	R CONDITI	ONS:								
WELL DIA	METER (II	1.)	<u> </u>	X 2	□ 4	□ 6	OTHER			
SAMPLE	TYPE: [	K GROUN	DWATER	☐ was	TEWATER	SUF	RFACE WATE	R OTHER		
WELL DE	PTH (TOC)	1	5.69	FT	DEPTH 1	O WATER	R BEFORE PU	IRGING (TOC)	8.89	FT.
LENGTH	OF WATER		6.8	FT	CALCUI	ATED O	NE WELL VO	LUME1:	2	GAL.
PURGING	DEVICE:	P	OLY BAILER		X DEDIC	ATED [	X DISPOSA	BLE DECONT	AMINATED	
SAMPLIN	G DEVICE:	P	OLY BAILER		X DEDIC	ATED	X DISPOSA	BLE DECONT	AMINATED	
EQUIP. D			AP WATER W			ISOPROP		ANALYTE FREE F		
	CONOX WA		▼ DIST/DEI	ON 1 RINSE ON 2 RINSE	_		OLVENT <u>IX.</u> ER FINAL RIN	DIST/DEION FINA		
			I: X LAB			PRESER				
WATER A	NALYZER	MODEL 8	SERIAL NO		yron L 6P S	erial #	<del></del>			
ACTUAL	CUMUL.	TEMP	SPECIFIC	PH .	DEPTH		WATER	1	REMARKS	
TIME	VOLUME	□ °F ⊠ °C	CONDUCT.		TO GROUND		APPEAR	(EVIDENT	ODOR, COLOR, PID)	
(MIN)	PURGED (GAL)	⊠.c	u5		WATER		CL=CLEAR CO=CLOUDY			
10 ( 0		201.	1011	1 00			TU=TURBID	1/1 - /	1 01	
12:18	INITIAL	18.4	10+.6	6.89			22	HC Oder	W/Flouring	
12:21	1,5	19,1	107,3	6,86	 		//	11 black	partidés	
12:25	3.0	19, 2 19, 2	109.6	6.85			<del>                                     </del>	11/	//	
12,21	7, 2	11, 4	11113	6.87			//			
			1				<u> </u>			
			<u> </u>				-	1		
			-				<u> </u>			
			· · ·							
	!									
DEPTH T	O WATER	AFTER P	JRGING (TO	C)	FT.	SAMPLE	FILTERED	☐ YES ☒ NO	SIZE	
NOTES:					SAMPLE 1	ΓΙΜΕ: /	2:34	ID# N	1W-4	
					DUPLICAT	TE 🗌	TIME:	ID#:		
					EQUIP. BL	ANK:	TIME:	ID#:		
					PREPARE	D BY:	EZEKIE	EL ROBLES		

Well Purging And Sampling Data - Rev. 3/07

<sup>&</sup>lt;sup>1</sup>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

# APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORD





10 March 2010

Ezekiel Robles PSI -- Oakland 4703 Tidewater Ave Ste B Oakland, CA 94601

RE: Tristar

Enclosed are the results of analyses for samples received by the laboratory on 03/05/10 09:38. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John Shepler

**Laboratory Director** 



25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

PSI -- Oakland Project: Tristar
4703 Tidewater Ave Ste B Project Number: 575-8G012
Oakland CA, 94601 Project Manager: Ezekiel Robles

**Reported:** 03/10/10 16:05

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T000175-01	Water	03/02/10 12:00	03/05/10 09:38
MW-2	T000175-02	Water	03/02/10 11:15	03/05/10 09:38
MW-3	T000175-03	Water	03/02/10 13:00	03/05/10 09:38
MW-4	T000175-04	Water	03/02/10 12:34	03/05/10 09:38

SunStar Laboratories, Inc.



25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

PSI -- Oakland Project: Tristar
4703 Tidewater Ave Ste B Project Number: 575-8G012 Reported:
Oakland CA, 94601 Project Manager: Ezekiel Robles 03/10/10 16:05

# MW-1 T000175-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		SunStar La	aborato	ries, Inc.					
Extractable Petroleum Hydrocarb	ons by 8015C								
C6-C12 (GRO)	ND	0.050	mg/l	1	0030508	03/05/10	03/08/10	EPA 8015C	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		91.5 %	65-	-135	"	"	"	"	
Volatile Organic Compounds by F	EPA Method 826	60B							
Bromobenzene	ND	1.0	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.1	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.7	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



Oakland CA, 94601

25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

PSI -- Oakland Project: Tristar 4703 Tidewater Ave Ste B Project Number: 575-8G012

Project Number: 575-8G012 Reported:
Project Manager: Ezekiel Robles 03/10/10 16:05

# MW-1 T000175-01 (Water)

	Rep	orting							
Analyte Resi	ılt	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

### SunStar Laboratories, Inc.

s-1,2-Dichloroethene	ND	1.0	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260E
ans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
2-Dichloropropane	ND	1.0	"	"	"	"	"	"
3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1-Dichloropropene	ND	1.0	"	"	"	"	"	"
s-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
ans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
exachlorobutadiene	ND	1.0	"	"	"	"	"	"
opropylbenzene	1.1	1.0	"	"	"	"	"	"
Isopropyltoluene	ND	1.0	"	"	"	"	"	"
lethylene chloride	ND	1.0	"	"	"	"	"	"
aphthalene	ND	1.0	"	"	"	"	"	"
Propylbenzene	2.1	1.0	"	"	"	"	"	"
yrene	ND	1.0	"	"	"	"	"	"
1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
etrachloroethene	ND	1.0	"	"	"	"	"	"
2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
richloroethene	ND	1.0	"	"	"	"	"	"
richlorofluoromethane	ND	1.0	"	"	"	"	"	"
2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
inyl chloride	ND	1.0	"	"	"	"	"	"
enzene	ND	0.50	"	"	"	"	"	"
oluene	ND	0.50	"	"	"	"	"	"
thylbenzene	ND	0.50	"	"	"	"	"	"
,p-Xylene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.



25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# MW-1 T000175-01 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

Volatile Organic Compounds by E	Volatile Organic Compounds by EPA Method 8260B											
o-Xylene	ND	0.50	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260B				
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"				
Tert-butyl alcohol	ND	10	"	"	"	"	"	"				
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"				
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"				
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"				
Surrogate: 4-Bromofluorobenzene		132 %	77.1-	110	"	"	"	"	S-GC			
Surrogate: Dibromofluoromethane		104 %	66.3-	111	"	"	"	"				
Surrogate: Toluene-d8		104 %	84.7-	109	"	"	"	"				

SunStar Laboratories, Inc.



25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

PSI -- Oakland Project: Tristar
4703 Tidewater Ave Ste B Project Number: 575-8G012
Oakland CA, 94601 Project Manager: Ezekiel Robles

**Reported:** 03/10/10 16:05

# MW-2 T000175-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		SunStar La	aborato	ries, Inc.					
Extractable Petroleum Hydrocarb	one by 8015C			105, 1110.					
C6-C12 (GRO)	ND	0.050	mg/l	1	0030508	03/05/10	03/08/10	EPA 8015C	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		86.8 %	65-	135	"	"	"	"	
Volatile Organic Compounds by F	EPA Method 826	0B							
Bromobenzene	ND	1.0	ug/l	1	0030509	03/05/10	03/08/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar
4703 Tidewater Ave Ste B Project Number: 575-8G0

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# MW-2 T000175-02 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

is-1,2-Dichloroethene	ND	1.0	ug/l	1	0030509	03/05/10	03/08/10	EPA 8260E
ans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
is-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
ans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
[exachlorobutadiene	ND	1.0	"	"	"	"	"	"
sopropylbenzene	ND	1.0	"	"	"	"	"	"
-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
lethylene chloride	ND	1.0	"	"	"	"	"	"
aphthalene	ND	1.0	"	"	"	"	"	"
-Propylbenzene	ND	1.0	"	"	"	"	"	"
tyrene	ND	1.0	"	"	"	"	"	"
,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
etrachloroethene	ND	1.0	"	"	"	"	"	"
,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
richloroethene	ND	1.0	"	"	"	"	"	"
richlorofluoromethane	ND	1.0	"	"	"	"	"	"
,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
inyl chloride	ND	1.0	"	"	"	"	"	"
enzene	ND	0.50	"	"	"	"	"	"
oluene	ND	0.50	"	"	"	"	"	"
thylbenzene	ND	0.50	"	"	"	"	"	"
n,p-Xylene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# MW-2 T000175-02 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

		anoun L		05, 1110					
Volatile Organic Compounds by EI	PA Method 8260B								
o-Xylene	ND	0.50	ug/l	1	0030509	03/05/10	03/08/10	EPA 8260B	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	77.1-	110	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		101 %	66.3-	111	"	"	"	"	
Surrogate: Toluene-d8		102 %	84.7-	109	"	"	"	"	

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar
4703 Tidewater Ave Ste B Project Number: 575-8G012 Reported:
Oakland CA, 94601 Project Manager: Ezekiel Robles 03/10/10 16:05

# MW-3 T000175-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Extractable Petroleum Hydrocarbo	ns by 8015C								
C6-C12 (GRO)	4.5	0.050	mg/l	1	0030508	03/05/10	03/08/10	EPA 8015C	
C13-C28 (DRO)	1.0	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		85.2 %	65-	135	"	"	"	"	
Volatile Organic Compounds by EI	PA Method 8260	B							
Bromobenzene	ND	1.0	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	8.8	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# MW-3 T000175-03 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

	Sunstai Laboratories, inc.									
Volatile Organic Compounds by	y EPA Method 8260B									
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260B		
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"		
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"		
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"		
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"		
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"		
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"		
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"		
Isopropylbenzene	26	1.0	"	"	"	"	"	"		
p-Isopropyltoluene	6.6	1.0	"	"	"	"	"	"		
Methylene chloride	ND	1.0	"	"	"	"	"	"		
Naphthalene	ND	1.0	"	"	"	"	"	"		
n-Propylbenzene	58	1.0	"	"	"	"	"	"		
Styrene	ND	1.0	"	"	"	"	"	"		
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"		
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"		
Tetrachloroethene	ND	1.0	"	"	"	"	"	"		
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"		
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"		
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"		
Trichloroethene	ND	1.0	"	"	"	"	"	"		
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"		
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"		
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"		
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"		
Vinyl chloride	ND	1.0	"	"	"	"	"	"		
Benzene	0.80	0.50	"	"	"	"	"	11		
Toluene	2.0	0.50	"	"	"	"	"	"		
Ethylbenzene	2.1	0.50	"	"	"	"	"	"		
m,p-Xylene	4.1	1.0	"	"	"	"	"	"		
o-Xylene	ND	0.50	"	"	"	"	"	"		

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# MW-3 T000175-03 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

Volatile Organic Compounds by	EPA Method 8260B								
Tert-amyl methyl ether	ND	2.0	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260B	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	n n	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	n n	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar
4703 Tidewater Ave Ste B Project Number: 575-8G012 Reported:
Oakland CA, 94601 Project Manager: Ezekiel Robles 03/10/10 16:05

# MW-4 T000175-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Extractable Petroleum Hydrocarb	ons by 8015C								
C6-C12 (GRO)	0.86	0.050	mg/l	1	0030508	03/05/10	03/08/10	EPA 8015C	
C13-C28 (DRO)	0.37	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		81.5 %	65-	135	"	"	"	"	
Volatile Organic Compounds by E	PA Method 826	0B							
Bromobenzene	ND	1.0	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	4.0	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# MW-4 T000175-04 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

rans-1,2-Dichloroethene	ND	1.0	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260B
,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
is-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
rans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Iexachlorobutadiene	ND	1.0	"	"	"	"	"	"
sopropylbenzene	4.3	1.0	"	"	"	"	"	"
-Isopropyltoluene	2.0	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene Saphthalene	ND	1.0	"	"	"	"	"	"
-Propylbenzene	7.6	1.0	"	"	"	"	"	"
tyrene	ND	1.0	"	"	"	"	"	"
,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
etrachloroethene	ND	1.0	"	"	"	"	"	"
,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
richloroethene	ND	1.0	"	"	"	"	"	"
richlorofluoromethane	ND	1.0	"	"	"	"	"	"
,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
,3,5-Trimethylbenzene	1.9	1.0	"	"	"	"	"	"
,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
inyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Coluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	0.57	0.50	"	"	"	"	"	"
n,p-Xylene	ND	1.0	"	"	"	"	"	"
-Xylene	ND	0.50	"	"	"	"	"	"

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# MW-4 T000175-04 (Water)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### SunStar Laboratories, Inc.

				,					
<b>Volatile Organic Compounds by E</b>	PA Method 8260B								
Tert-amyl methyl ether	ND	2.0	ug/l	1	0030509	03/05/10	03/05/10	EPA 8260B	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		174 %	77.1-	110	"	"	"	"	S-GC
Surrogate: Dibromofluoromethane		103 %	66.3-	111	"	"	"	"	
Surrogate: Toluene-d8		104 %	84.7-	109	"	"	"	"	

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# Extractable Petroleum Hydrocarbons by 8015C - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0030508 - EPA 3510C GC										
Blank (0030508-BLK1)				Prepared:	03/05/10	Analyzed	1: 03/08/10			
C6-C12 (GRO)	ND	0.050	mg/l							
C13-C28 (DRO)	ND	0.050	"							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: p-Terphenyl	2.71		"	4.00		67.7	65-135			
LCS (0030508-BS1)				Prepared:	03/05/10	Analyzed	1: 03/08/10			
C13-C28 (DRO)	17.3	0.050	mg/l	20.0		86.4	75-125			
Surrogate: p-Terphenyl	3.07		"	4.00		76.7	65-135			
LCS Dup (0030508-BSD1)				Prepared:	03/05/10	Analyzed	1: 03/08/10			
C13-C28 (DRO)	15.8	0.050	mg/l	20.0		78.8	75-125	9.16	20	
Surrogate: p-Terphenyl	3.06		"	4.00		76.5	65-135			

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (0030509-BLK1)				Prepared & Analyzed: 03/05/10
Bromobenzene	ND	1.0	ug/l	
Bromochloromethane	ND	1.0	"	
Bromodichloromethane	ND	1.0	"	
Bromoform	ND	1.0	"	
Bromomethane	ND	1.0	"	
n-Butylbenzene	ND	1.0	"	
sec-Butylbenzene	ND	1.0	"	
tert-Butylbenzene	ND	1.0	"	
Carbon tetrachloride	ND	0.50	"	
Chlorobenzene	ND	1.0	"	
Chloroethane	ND	1.0	"	
Chloroform	ND	1.0	"	
Chloromethane	ND	1.0	"	
2-Chlorotoluene	ND	1.0	"	
4-Chlorotoluene	ND	1.0	"	
Dibromochloromethane	ND	1.0	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	
Dibromomethane	ND	1.0	"	
1,2-Dichlorobenzene	ND	1.0	"	
1,3-Dichlorobenzene	ND	1.0	"	
1,4-Dichlorobenzene	ND	1.0	"	
Dichlorodifluoromethane	ND	0.50	"	
1,1-Dichloroethane	ND	1.0	"	
1,2-Dichloroethane	ND	0.50	"	
1,1-Dichloroethene	ND	1.0	"	
cis-1,2-Dichloroethene	ND	1.0	"	
trans-1,2-Dichloroethene	ND	1.0	"	
1,2-Dichloropropane	ND	1.0	"	
1,3-Dichloropropane	ND	1.0	"	
2,2-Dichloropropane	ND	1.0	"	
1,1-Dichloropropene	ND	1.0	"	
cis-1,3-Dichloropropene	ND	0.50	"	
trans-1,3-Dichloropropene	ND	0.50	"	
Hexachlorobutadiene	ND	1.0	"	
Isopropylbenzene	ND	1.0	"	

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0030509 - EPA 5030 GCMS							
Blank (0030509-BLK1)				Prepared & An	alyzed: 03/05	//10	
p-Isopropyltoluene	ND	1.0	ug/l		-		
Methylene chloride	ND	1.0	"				
Naphthalene	ND	1.0	"				
n-Propylbenzene	ND	1.0	"				
Styrene	ND	1.0	"				
1,1,2,2-Tetrachloroethane	ND	1.0	"				
1,1,1,2-Tetrachloroethane	ND	1.0	"				
Tetrachloroethene	ND	1.0	"				
1,2,3-Trichlorobenzene	ND	1.0	"				
1,2,4-Trichlorobenzene	ND	1.0	"				
1,1,2-Trichloroethane	ND	1.0	"				
1,1,1-Trichloroethane	ND	1.0	"				
Trichloroethene	ND	1.0	"				
Trichlorofluoromethane	ND	1.0	"				
1,2,3-Trichloropropane	ND	1.0	"				
1,3,5-Trimethylbenzene	ND	1.0	"				
1,2,4-Trimethylbenzene	ND	1.0	"				
Vinyl chloride	ND	1.0	"				
Benzene	ND	0.50	"				
Toluene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
m,p-Xylene	ND	1.0	"				
o-Xylene	ND	0.50	"				
Tert-amyl methyl ether	ND	2.0	"				
Tert-butyl alcohol	ND	10	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Methyl tert-butyl ether	ND	1.0	"				
C6-C12 (GRO)	ND	50	"				
Surrogate: 4-Bromofluorobenzene	9.45		"	8.00	118	77.1-110	S-GC
Surrogate: Dibromofluoromethane	7.63		"	8.00	95.4	66.3-111	
Surrogate: Toluene-d8	8.29		"	8.00	104	84.7-109	

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

# Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0030509 - EPA 5030 GCMS										
LCS (0030509-BS1)				Prepared:	03/05/10	Analyzed	1: 03/06/10			
Chlorobenzene	22.4	1.0	ug/l	20.0		112	75-125			
1,1-Dichloroethene	21.0	1.0	"	20.0		105	75-125			
Trichloroethene	20.6	1.0	"	20.0		103	75-125			
Benzene	19.1	0.50	"	20.0		95.6	75-125			
Toluene	16.8	0.50	"	20.0		84.2	75-125			
Surrogate: 4-Bromofluorobenzene	9.34		"	8.00		117	77.1-110			S-GC
Surrogate: Dibromofluoromethane	8.78		"	8.00		110	66.3-111			
Surrogate: Toluene-d8	7.85		"	8.00		98.1	84.7-109			
LCS Dup (0030509-BSD1)				Prepared:	03/05/10	Analyzed	1: 03/06/10			
Chlorobenzene	23.0	1.0	ug/l	20.0		115	75-125	2.20	20	
1,1-Dichloroethene	22.3	1.0	"	20.0		112	75-125	5.95	20	
Trichloroethene	21.0	1.0	"	20.0		105	75-125	1.68	20	
Benzene	19.4	0.50	"	20.0		96.8	75-125	1.25	20	
Toluene	16.9	0.50	"	20.0		84.6	75-125	0.474	20	
Surrogate: 4-Bromofluorobenzene	9.05		"	8.00		113	77.1-110			S-GC
Surrogate: Dibromofluoromethane	8.86		"	8.00		111	66.3-111			
Surrogate: Toluene-d8	7.54		"	8.00		94.2	84.7-109			

SunStar Laboratories, Inc.



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-8G012Reported:Oakland CA, 94601Project Manager: Ezekiel Robles03/10/10 16:05

#### **Notes and Definitions**

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

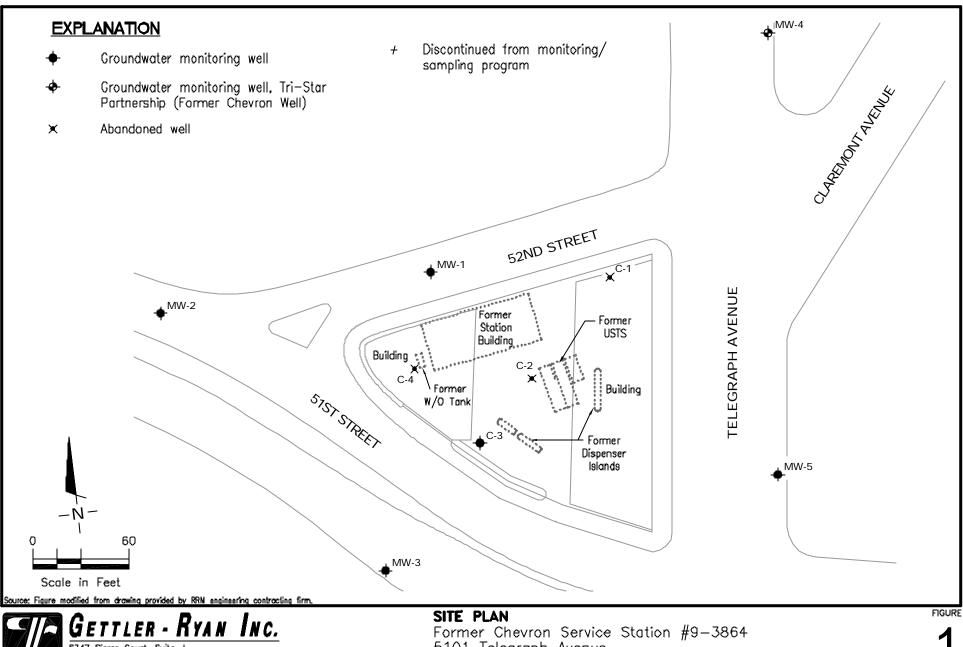
# **Chain of Custody Record**

SunStar Laboratories, Inc. 25712 Commercentre Dr Lake Forest, CA 92630 949-297-5020

Client: PSI Address: 4703 Tide Phone: (576) 434-9200 Project Manager: EZ	eurater Ri ekiel	e steb Fax: (Site	, Oatlan o) 434- es	l CII 946 7676	01			Col	lecto	or:	-2	ek	10	(1	t q i	10	٠,٢	Clien		ct #: <u>-</u>		1 860 0013		- - -
Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	C	comme	ents/Pr	eservativ	e	Total # of containers
mw-l	3-2-10	12:00	WATER			Ž						Ž	_					01						4
M M-5		11:15				X						X						02						4
Mw-3					<u> </u>	$\Delta$						X						03						14
MW-4	<b>₩</b>	12:34	V	V	<u>l</u>	X.						X						04						4
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1	<b>94/10 /17</b> Dáte / T	-60	650 1	Tacking #	10	765	24	69	41		p.	ocois	upd r	hoor	condi	ition/	COLd	44	. 1			/L FO	_	
Relinquished by: (signature)	Date / T	ime	Received h	y: (signature)		<u> </u>	Date	_ / T	ime		IX.	ecel1	veu (	yoou	oorial	idOil/	colu	/-7	· Kr:	- 0.4	נייי טו	1 -	•	
																(7	TY.	7		TP	H-1	10		
Sample disposal Instructions: Dis	738			to client	۶ - د		kup	_7	38		Turi	n are	ound	d tim	e:	<i>J</i>	$\overline{U}$							

# **APPENDIX C**

CHEVRON #9-3864 GROUNDWATER ELEVATION / ANALYTICAL TABLE AND SITE MAP



Former Chevron Service Station #9-3864

5101 Telegraph Avenue
Oakland, California

PROJECT NUMBER REVIEWED BY
386358

Former Chevron Service Station #9-3864

5101 Telegraph Avenue
Oakland, California

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/		тос	GWE	DTW	TPH-GRO	В	T	E	X	MTBE
DATE		(ft.)	(msl)	(ft.)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(μg/L)
C-3										
12/06/90		115.70	98.84	16.86	210	2.0	< 0.5	< 0.5	1.0	
12/06/90	(D)				220	2.0	0.6	< 0.5	2.0	
06/06/91	` ′	115.70	100.01	15.69	6,400	310	21	16	21	
09/16/92		115.70	99.81	15.89	7,100	130	26	12	30	
12/04/91		115.70	100.32	15.38	5,100	120	18	17	20	
06/02/92		115.70	100.30	15.40	6,700	140	44	17	37	
12/21/92		115.70	101.79	13.91	13,000	390	360	100	410	
03/11/93		115.70	101.95	13.75	5,100	86	20	12	23	
06/11/93		115.70	101.03	14.67	7,200	91	38	19	38	
09/13/93		115.70	100.17	15.53	6,800	100	52	41	75	
12/14/93		115.70	101.30	14.40	8,600	74	23	18	36	
03/16/94		115.70	101.44	14.26	6,000	100	42	27	30	
06/17/94		115.70	100.60	15.10	15,000	170	120	120	270	
08/29/94		115.70	100.30	15.40	26,000	51	< 0.5	58	107	
12/06/94		115.70	101.90	13.80	34,000	88	140	98	390	
03/31/95		115.70	102.91	12.79	2,800	42	< 5.0	< 5.0	6.6	
06/24/95		115.70	100.84	14.86	5,200	34	<10	<10	13	
09/12/95		115.70	100.76	14.94	7,000	45	<10	28	42	
12/29/95		115.70	102.12	13.58	5,100	20	<10	<10	19	<50
02/29/96		115.70	102.88	12.82	2,600	15	< 5.0	17	16	<25
06/26/96		115.70	101.32	14.38	4,400	<10	<10	<10	<10	<50
09/12/96		115.70	100.75	14.95	5,800	73	22	18	17	61
12/11/96		115.70	103.08	12.62	8,800	81	<20	<20	37	200
03/31/97		115.70	100.70	15.00	8,100	38	62	30	42	38
06/29/97		115.70	100.08	15.62	5,800	<10	<10	<10	67	<50
09/30/97		115.70	100.70	15.00	6,200	<10	28	21	27	130
12/12/97		115.70	103.68	12.02	330	1.6	1.1	<1.0	3.4	< 5.0
02/19/98		115.70	103.26	12.44	110	1.7	< 0.5	< 0.5	0.51	<2.5
06/16/98		115.70	102.29	13.41	7,400	63	16	<10	<10	170
08/31/98		115.70	101.70	14.00	4,400	6.4	<2.5	5.4	16	15
12/23/98		115.70	102.91	12.79	11,000	83	37	69	76	86
03/09/99		115.70	102.70	13.00	6,500	45	38	17	30	110
06/23/99 <sup>1</sup>		115.70	101.92	13.78						
09/30/99		115.70	99.70	16.00	3,870	29.7	8.72	7.08	7.75	<50
02/29/00		115.70	102.14	13.56	2,660	22.5	< 5.0	11.2	11.6	<50

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/	тос	GWE	DTW	TPH-GRO	В	T	E	X	MTBE
DATE	(ft.)	(msl)	(ft.)	(μg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
C-3 (cont)									
$09/18/00^3$	115.70	103.25	12.45	$740^{4}$	6.0	4.5	<2.5	6.0	<13
03/21/01 <sup>3</sup>	115.70	102.05	13.65	$1,700^4$	21	12	14	19	59
09/04/01 <sup>3</sup>	115.70	101.09	14.61	4,100	<10	4.8	6.5	14	<5.0/<2 <sup>5</sup>
$03/22/02^{3,6}$	115.70	102.49	13.21	3,600	< 5.0	< 5.0	6.1	<15	<2.5
$09/16/02^3$	115.70	100.39	15.31	4,000	<10	< 5.0	4.3	<10	7.9
$03/28/03^3$	115.70	101.38	14.32	2,400	<2.5	<2.5	5.5	<7.5	<13
09/02/03 <sup>3,7</sup>	115.70	101.33	14.37	2,800	1	0.9	0.9	4	< 0.5
03/18/04 <sup>7,8</sup>	115.70	101.56	14.14	5,300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/15/04 <sup>7</sup>	115.70	101.50	14.20	3,200	0.8	0.8	1	3	10
$03/11/05^7$	115.70	102.79	12.91	4,200	0.6	0.5	1	3	< 0.5
09/29/05 <sup>7</sup>	115.70	101.13	14.57	4,900	0.6	0.5	2	3	< 0.5
03/24/06	115.70	INACCESSIBLE -	VEHICLE PARKE	ED OVER WELL					
09/12/06 <sup>7</sup>	115.70	101.29	14.41	5,900	<1	<1	<1	2	<1
03/05/07 <sup>7</sup>	115.70	102.81	12.89	4,600	< 0.5	< 0.5	0.8	2	< 0.5
$09/21/07^7$	115.70	101.39	14.31	5,000	< 0.5	< 0.5	0.6	1	< 0.5
03/06/08 <sup>7</sup>	115.70	102.15	13.55	3,600	< 0.5	< 0.5	1	1	< 0.5
09/05/08 <sup>7</sup>	115.70	101.00	14.70	2,700	< 0.5	< 0.5	0.9	1	< 0.5
03/30/09 <sup>7</sup>	115.70	102.28	13.42	4,200	< 0.5	< 0.5	0.8	3	< 0.5
09/15/09 <sup>7</sup>	115.70	100.55	15.15	4,700	< 0.5	< 0.5	< 0.5	1	< 0.5
$03/02/10^7$	115.70	102.22	13.48	3,600	<0.5	<0.5	< 0.5	1	< 0.5
MW-1									
09/20/93	115.05	102.37	12.68	<50	< 0.5	< 0.5	< 0.5	<1.5	
12/14/93	115.05	105.01	10.04	<50	<0.5	<0.5	<0.5	<0.5	<del></del>
03/16/94	115.05	103.10	11.95	<50	<0.5	1.7	<0.5	2.1	
06/17/94	115.05	102.51	12.54	350	1.2	3.7	2.0	12	
08/29/94	115.05	101.98	13.07	<50	< 0.5	< 0.5	< 0.5	< 0.5	
12/06/94	115.05	104.45	10.60	140	0.9	2.8	1.1	4.2	
03/31/95	115.05	104.74	10.31	<50	< 0.5	< 0.5	< 0.5	< 0.5	
06/24/95	115.05	102.44	12.61	<50	< 0.5	< 0.5	< 0.5	< 0.5	
09/12/95	115.05	102.00	13.05	<50	< 0.5	< 0.5	< 0.5	< 0.5	
02/02/96	115.05	106.19	8.86	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
02/29/96	115.05	105.39	9.66	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/26/96	115.05	102.85	12.20	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/	TOC	GWE	DTW	TPH-GRO	В	T	E	X	МТВЕ
DATE	(ft.)	(msl)	(ft.)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1 (cont)									
09/12/96	115.05	101.55	13.50	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/11/96	115.05	105.90	9.15	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
03/31/97	115.05	102.30	12.75	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/29/97	115.05	102.01	13.04	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/30/97	115.05	101.80	13.25	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/12/97	115.05	106.06	8.99	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
02/19/98	115.05	105.64	9.41	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/16/98	115.02	103.48	11.54	<50	< 0.5	< 0.5	< 0.5	< 0.5	2.6
08/31/98	115.02	102.51	12.51	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/23/98	115.02	103.03	11.99	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
03/09/99	115.02	104.57	10.45	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/30/99	115.02	102.07	12.95	SAMPLED ANNUALL	Y				
02/29/00	115.02	105.90	9.12	<50	< 0.5	0.816	< 0.5	< 0.5	< 5.0
09/18/00	115.02	104.14	10.88						
03/21/01	115.02	104.01	11.01	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
09/04/01	115.02	103.60	11.42						/<2 <sup>5</sup>
$03/22/02^6$	115.02	104.68	10.34	100	< 0.50	24	0.80	4.9	15
09/16/02	115.02	102.35	12.67	SAMPLED ANNUALL	Y				
03/28/03	115.02	103.29	11.73	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
09/02/03	115.02	102.74	12.28	SAMPLED ANNUALL	Y				
03/18/04 <sup>7</sup>	115.02	103.11	11.91	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/15/04	115.02	101.89	13.13	SAMPLED ANNUALL	Y				
03/11/05 <sup>7</sup>	115.02	104.29	10.73	<50	< 0.5	2	< 0.5	< 0.5	< 0.5
09/29/05	115.02	101.97	13.05	SAMPLED ANNUALL	Y				
03/24/06 <sup>7</sup>	115.02	104.61	10.41	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/12/06	115.02	101.91	13.11	SAMPLED ANNUALL	Y				
03/05/07 <sup>7</sup>	115.02	103.93	11.09	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/21/07	115.02	102.07	12.95	SAMPLED ANNUALL	Y				
03/06/08 <sup>7</sup>	115.02	102.92	12.10	<50	< 0.5	<0.5	< 0.5	< 0.5	< 0.5
09/05/08	115.02	102.54	12.48	SAMPLED ANNUALL	Y				
03/30/09 <sup>7</sup>	115.02	103.64	11.38	<50	< 0.5	<0.5	< 0.5	< 0.5	< 0.5
09/15/09	115.02	102.06	12.96	SAMPLED ANNUALL	Y				
03/02/10 <sup>7</sup>	115.02	103.27	11.75	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results

DATE         (ft.)         (msl)         (ft.)         (mg/L)         (mg/L)         (mg/L)         (mg/L)         (mg/L)           MW-2           09/20/93         112.08         99.93         12.15         <50         <0.5         <0.5         <0.5         <1.5            12/14/93         112.08         97.36         14.72         <50         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5	WELL ID/	TOC	GWE	DTW	TPH-GRO	В	T	E	X	MTBE
09/20/93         112.08         99.93         12.15         <50         <0.5         <0.5         <0.5         <0.5         <-1           12/14/93         112.08         97.36         14.72         <50         <0.5         <0.5         <0.5         <0.5         <-1           03/16/94         112.08         100.92         11.16         <50         <0.5         1.1         <0.5         <0.9            06/17/94         112.08         100.41         11.67         <330         1.4         <3.3         1.9         11            08/29/94         112.08         100.08         12.00         <50         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5<	DATE	(ft.)	(msl)	(ft.)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
12/14/93         112.08         97.36         14.72         <50	MW-2									
03/16/94         112.08         100.92         11.16         <50         <0.5         1.1         <0.5         0.9            06/17/94         112.08         100.41         11.67         330         1.4         3.3         1.9         11            08/29/94         112.08         100.08         12.00         <50	09/20/93	112.08	99.93	12.15	<50	< 0.5	< 0.5	< 0.5	<1.5	
06/17/94         112.08         100.41         11.67         330         1.4         3.3         1.9         11            08/29/94         112.08         100.08         12.00         <50	12/14/93	112.08	97.36	14.72	<50	< 0.5	< 0.5	< 0.5	< 0.5	
08/29/94         112.08         100.08         12.00         <50         <0.5         <0.5         <0.5         <0.5         <	03/16/94	112.08	100.92	11.16	<50	< 0.5	1.1	< 0.5	0.9	
08/29/94         112.08         100.08         12.00         <50         <0.5         <0.5         <0.5         <0.5         <	06/17/94	112.08	100.41	11.67	330	1.4	3.3	1.9	11	
03/31/95         112.08         103.24         8.84         <50	08/29/94	112.08	100.08	12.00	<50	< 0.5			< 0.5	
06/24/95         112.08         100.44         11.64         <50         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5         <0.5	12/06/94	112.08	102.57	9.51	<50	< 0.5	< 0.5	< 0.5	< 0.5	
09/12/95         112.08         100.00         12.08         <50	03/31/95	112.08	103.24	8.84	<50	< 0.5	< 0.5	< 0.5	< 0.5	
09/12/95         112.08         100.00         12.08         <50	06/24/95	112.08	100.44	11.64	<50	< 0.5	< 0.5	< 0.5	< 0.5	
02/29/96         112.08         104.08         8.00         <50	09/12/95		100.00	12.08	<50	< 0.5	< 0.5	< 0.5	< 0.5	
06/26/96         112.08         100.58         11.50         <50	12/29/95	112.08	101.58	10.50	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/12/96         112.08         99.81         12.27         <50	02/29/96	112.08	104.08	8.00	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/11/96         112.08         104.17         7.91         <50	06/26/96	112.08	100.58		<50	< 0.5		< 0.5		<2.5
03/31/97         112.08         100.20         11.88         <50	09/12/96	112.08	99.81	12.27	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/29/97         112.08         99.89         12.19         <50	12/11/96	112.08	104.17	7.91	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/30/97         112.08         99.46         12.62         <50	03/31/97	112.08	100.20	11.88	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/12/97     112.08     102.85     9.23     <50	06/29/97	112.08	99.89	12.19	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
02/19/98     112.08     104.87     7.21     <50	09/30/97	112.08	99.46	12.62	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/16/98 112.03 101.10 10.93 <50 <0.5 <0.5 <0.5 <0.5 <2.5	12/12/97	112.08	102.85	9.23	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
	02/19/98	112.08	104.87	7.21	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
	06/16/98	112.03	101.10	10.93	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
08/31/98 112.03 99.69 12.34 <50 <0.5 <0.5 <0.5 <0.5 <2.5	08/31/98	112.03	99.69	12.34	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/23/98	12/23/98	112.03	100.59	11.44	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
03/09/99 112.03 103.23 8.80 <50 <0.5 <0.5 <0.5 <0.5 <2.5	03/09/99	112.03	103.23	8.80	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/30/99 112.03 101.22 10.81 SAMPLED ANNUALLY	09/30/99	112.03	101.22	10.81	SAMPLED ANNUA	LLY				
02/29/00 112.03 105.12 6.91 <50 <0.5 <0.5 <0.5 <5.0	02/29/00	112.03	105.12	6.91	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
09/18/00 112.03 101.00 11.03	09/18/00	112.03	101.00	11.03						
03/21/01 112.03 101.61 10.42 <50 <0.50 <0.50 <0.50 <0.50 <2.5	03/21/01	112.03	101.61	10.42	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
09/04/01 112.03 101.04 10.99	09/04/01	112.03	101.04	10.99						/<2 <sup>5</sup>
03/22/02 112.03 102.14 9.89 <50 <0.50 <0.50 <0.50 <1.5 <2.5	03/22/02	112.03	102.14	9.89	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
09/16/02 112.03 100.02 12.01 SAMPLED ANNUALLY	09/16/02	112.03	100.02	12.01	SAMPLED ANNUA	LLY				
03/28/03 112.03 101.23 10.80 <50 <0.50 <0.50 <0.50 <1.5 <2.5	03/28/03	112.03	101.23	10.80	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
09/02/03 112.03 100.15 11.88 SAMPLED ANNUALLY	09/02/03	112.03	100.15	11.88	SAMPLED ANNUA	LLY				
$03/18/04^7$ 112.03 101.04 10.99 <50 <0.5 <0.5 <0.5 <0.5	03/18/04 <sup>7</sup>	112.03	101.04	10.99	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/15/04 112.03 99.15 12.88 SAMPLED ANNUALLY										
$03/11/05^7$ 112.03 102.13 9.90 <50 <0.5 <0.5 <0.5 <0.5	03/11/05 <sup>7</sup>	112.03	102.13	9.90	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	X (μg/L)	MTBE (µg/L)
MW-2 (cont)	<b>y</b> 7	<u> </u>	W TO	\r\o'/	.vr:ð'.≒/	M78//	M:0/=/	Mra/=/	Mra'~/
09/29/05	112.03	99.33	12.70	SAMPLED ANNUALL	v				
03/24/06 <sup>7</sup>	112.03	103.04	8.99	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/12/06	112.03	98.97	13.06	SAMPLED ANNUALLY					
03/05/07 <sup>7</sup>	112.03	101.57	10.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/21/07	112.03	99.35		SAMPLED ANNUALL					
03/06/08 <sup>7</sup>			12.68	SAMPLED ANNUALL <50			 <0.5	 <0.5	 <0.5
09/05/08	112.03	100.98 99.22	11.05 12.81	<50 SAMPLED ANNUALL	<0.5	<0.5			
03/30/09 <sup>7</sup>	112.03								 -0.5
	112.03	101.23	10.80	<50	<0.5	<0.5	<0.5	<0.5	< 0.5
09/15/09	112.03	98.84	13.19	SAMPLED ANNUALLY					 -0.5
03/02/10 <sup>7</sup>	112.03	101.34	10.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3									
09/20/93	113.67	97.25	16.42	6,600	400	11	32	23	
12/14/93	113.67	98.95	14.72	8,400	390	9.4	13	<2.5	
03/16/94	113.67	98.45	15.22	6,900	260	30	32	27	
06/17/94	113.67	97.62	16.05	10,000	190	61	58	190	
08/29/94	113.67	97.44	16.23	7,200	74	9.8	26	24	
12/06/94	113.67	99.35	14.32	13,000	610	86	88	140	
03/31/95	113.67	99.98	13.69	4,300	120	<10	12	<10	
06/24/95	113.67	98.02	15.65	6,200	210	24	29	12	
09/12/95	113.67	97.68	15.99	7,200	190	<20	<20	<20	
12/29/95	113.67	99.67	14.00	7,100	200	<10	45	24	<50
02/29/96	113.67	100.91	12.76	1,200	30	<5.0	<5.0	<5.0	<25
06/26/96	113.67	98.44	15.23	7,900	180	<20	35	28	240
09/12/96	113.67	97.73	15.94	11,000	150	<5.0	35	28	170
12/11/96	113.67	99.86	13.81	7,500	75	8.8	30	45	110
03/31/97	113.67	98.23	15.44	8,700	100	<10	20	23	50
06/29/97	113.67	97.99	15.68	9,300	120	28	22	19	150
09/30/97	113.67	97.76	15.91	8,200	78	<10	22	25	96
12/12/97	113.67	100.82	12.85	68	1.8	< 0.5	< 0.5	< 0.5	<2.5
02/19/98	113.67	100.41	13.26	220	5.6	1.5	< 0.5	< 0.5	6.1
06/16/98	113.63	99.12	14.51	7,500	97	21	21	27	160
08/31/98	113.63	98.62	15.01	7,600	24	<2.5	9.5	16	38
12/23/98	113.63	100.03	13.60	5,800	69	<50	<50	<50	<250

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/	TOC	GWE	DTW	TPH-GRO	В	T	E	X	MTBE
DATE	(ft.)	(msl)	(ft.)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)
MW-3 (cont)									
03/09/99	113.63	99.59	14.04	5,300	<10	<10	16	20	88
06/23/99 <sup>1</sup>	113.63								
07/19/99 <sup>1</sup>	113.63								
09/30/99	113.63	96.74	16.89	8,660	53.7	16.9	17	19.6	132
02/29/00	113.63	INACCESSIBLE							
$09/18/00^3$	113.63	100.41	13.22	$2,400^4$	14	6.8	4.7	7.4	28
03/21/01 <sup>3</sup>	113.63	98.88	14.75	$7,600^4$	41	30	<25	50	160
09/04/01	113.63	INACCESSIBLE - CA	AR PARKED O	VER WELL					
$03/22/02^3$	113.63	99.46	14.17	7,600	<10	4.2	11	<25	< 5.0
$09/16/02^3$	113.63	97.34	16.29	5,900	<20	<10	7.7	<15	21
$03/28/03^3$	113.63	98.67	14.96	3,500	<20	3.3	7.3	10	<13
09/02/03 <sup>3,7</sup>	113.63	98.20	15.43	4,500	3	2	2	5	< 0.5
03/18/04 <sup>7,8</sup>	113.63	98.91	14.72	5,300	3	1	3	4	< 0.5
09/15/04	113.63	INACCESSIBLE - CA	AR PARKED O	VER WELL					
03/11/05 <sup>7</sup>	113.63	99.72	13.91	4,500	2	1	2	4	< 0.5
09/29/05 <sup>7</sup>	113.63	98.06	15.57	5,300	3	1	2	4	< 0.5
03/24/06 <sup>7</sup>	113.63	100.10	13.53	3,300	1	0.6	1	2	< 0.5
09/12/06 <sup>7</sup>	113.63	98.16	15.47	6,100	2	1	2	4	< 0.5
03/05/07 <sup>7</sup>	113.63	99.69	13.94	4,000	1	0.6	0.8	2	< 0.5
09/21/07 <sup>7</sup>	113.63	98.24	15.39	5,900	2	1	1	4	< 0.5
03/06/08 <sup>7</sup>	113.63	99.02	14.61	3,900	2	0.8	2	3	< 0.5
09/05/08 <sup>7</sup>	113.63	98.13	15.50	5,100	1	0.7	2	3	< 0.5
03/30/09 <sup>7</sup>	113.63	99.13	14.50	4,800	2	0.7	1	3	< 0.5
09/15/09	113.63	INACCESSIBLE							
03/02/10 <sup>7</sup>	113.63	99.41	14.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-5									
09/20/93	116.74	101.43	15.31	590	25	1.8	0.6	2.0	
12/14/93	116.74	102.19	14.55	210	11	6.3	2.3	6.1	
03/16/94	116.74	101.77	14.97	270	12	16	4.8	17	
06/17/94	116.74	101.36	15.38	220	24	17	6.7	28	
08/29/94	116.74	101.54	15.20	1,000	< 0.5	< 0.5	< 0.5	< 0.5	
12/06/94	116.74	102.09	14.65	110	9.2	9.7	2.2	11	
03/31/95	116.74	103.04	13.70	<50	< 0.5	< 0.5	< 0.5	< 0.5	

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/	TOC	GWE	DTW	TPH-GRO	В	T	E	X	MTBE
DATE	(ft.)	(msl)	(ft.)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)
MW-5 (cont)									
06/24/95	116.74	101.95	14.79	<50	< 0.5	< 0.5	< 0.5	< 0.5	
09/12/95	116.74	102.15	14.59	<50	< 0.5	< 0.5	< 0.5	< 0.5	
12/29/95	116.74	101.76	14.98	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
02/29/96	116.74	103.07	13.67	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/26/96	116.74	102.50	14.24	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/12/96	116.74	102.12	14.62	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/11/96	116.74	102.93	13.81	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
03/31/97	116.74	101.29	15.45	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/29/97	116.74	102.07	14.67	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/30/97	116.74	101.89	14.85	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/12/97	116.74	102.99	13.75	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
02/19/98	116.74	103.68	13.06	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/16/98	116.70	102.35	14.35	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
08/31/98	116.70	101.54	15.16	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/23/98	116.70	102.15	14.55	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
03/09/99	116.70	102.63	14.07	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/30/99	116.70	100.80	15.90	SAMPLED ANNUAL	LLY				
02/29/00	116.70	103.40	13.30	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
09/18/00	116.70	101.62	15.08						
03/21/01	116.70	102.04	14.66	<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
09/04/01	116.70	101.26	15.44						/<2 <sup>5</sup>
$03/22/02^6$	116.70	101.99	14.71	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
09/16/02	116.70	101.02	15.68	SAMPLED ANNUAL	LLY				
03/28/03	116.70	101.65	15.05	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
09/02/03	116.70	101.34	15.36	SAMPLED ANNUAL	LLY				
03/18/04 <sup>7</sup>	116.70	102.14	14.56	<50	1	0.7	1	3	< 0.5
09/15/04	116.70	101.30	15.40	SAMPLED ANNUAL	LLY				
03/11/05 <sup>7</sup>	116.70	102.50	14.20	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/29/05	116.70	101.23	15.47	SAMPLED ANNUAL	LLY				
03/24/06 <sup>7</sup>	116.70	102.77	13.93	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/12/06	116.70	102.03	14.67	SAMPLED ANNUAL	LLY				
03/05/07 <sup>7</sup>	116.70	102.03	14.67	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/21/07	116.70	101.10	15.60	SAMPLED ANNUAL	LLY				
03/06/08 <sup>7</sup>	116.70	102.20	14.50	<50	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
09/05/08	116.70	101.24	15.46	SAMPLED ANNUAL	LLY				

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	X (μg/L)	MTBE (µg/L)
MW-5 (cont)				M : O: /	м. С /		м. С		M . Q*
$03/30/09^7$	116.70	101.90	14.80	<50	<0.5	<0.5	<0.5	< 0.5	< 0.5
09/15/09	116.70	100.83	15.87	SAMPLED ANN					
03/02/10 <sup>7</sup>	116.70	102.40	14.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5
C-1									
12/06/90	117.45	102.11	15.34	1,900	17	11	3.0	21	
06/06/91	117.45	102.83	14.62	3,400	21	15	11	18	
12/04/91	117.45	102.97	14.48	2,700	22	16	13	23	
06/02/92	117.45	102.92	14.53	1,900	170	170	13	83	
09/16/92	117.45	102.52	14.93	810	5.8	5.7	2.0	6.3	
12/21/92	117.45	103.72	13.73	75	2.4	2.9	1.4	4.7	
03/11/93	117.45	103.62	13.83	150	2.4	20	3.3	23	
06/11/93	117.45	103.26	14.19	400	4.3	2.3	1.0	3.5	
09/13/93	117.45	102.85	14.60	4,100	62	43	34	57	
12/14/93	117.45	103.67	13.78	3,100	9.5	4.5	1.2	11	
03/16/94	117.45	103.44	14.01	410	6.3	3.1	1.3	4.5	
06/17/94	117.45	102.90	14.55	3,700	100	42	30	91	
08/29/94	117.45	102.96	14.49	2,600	15	< 0.5	6.7	9.7	
12/06/94	117.45	104.04	13.41	510	2.0	2.2	1.7	9.4	
03/31/95	117.45	105.33	12.12	5,440	9.0	2.3	2.0	3.6	
06/24/95	117.45	103.45	14.00	260	5.8	1.0	0.94	0.88	
09/12/95	117.45	103.42	14.03	650	14	1.1	1.6	2.4	
12/29/95	117.45	104.50	12.95	990	32	6.3	4.0	3.2	46
02/29/96	117.45	105.27	12.18	840	2.5	<1.0	2.6	7.3	< 5.0
06/26/96	117.45	103.72	13.73	290	3.6	0.73	1.0	1.1	9.9
09/12/96	117.45	103.32	14.13	1,200	17	1.8	4.0	4.4	24
12/11/96	117.45	104.66	12.79	7,700	<10	53	19	44	87
ABANDONED									
C-2									
12/06/90	116.16	100.82	15.34	210	140	9.0	2.0	11	
06/06/91	116.16	101.54	14.62	4,800	340	23	19	23	
12/04/91	116.16	100.73	15.43	3,900	85	15	9.1	15	
06/02/92	116.16	101.74	14.42	3,300	76	9.2	14	15	

Table 1
Groundwater Monitoring Data and Analytical Results

TYPE F TEST	TO C	CWE	DIENN	mpri opo				••••	
WELL ID/	TOC	GWE	DTW	TPH-GRO	B (***/T)	T (****/T.)	E (****)	X	MTBE
DATE	(ft.)	(msl)	(ft.)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)
C-2 (cont)									
09/16/92	116.16	101.35	14.81	3,000	16	15	3.4	7.5	
12/21/92	116.16	102.79	13.37	2,200	21	12	7.1	15	
03/11/93	116.16	102.69	13.47	2,200	33	24	12	25	
06/11/93	116.16	102.18	13.98	2,600	21	25	11	26	
09/13/93	116.16	101.61	14.55	2,100	31	25	18	39	
12/14/93	116.16	102.46	13.70	3,800	<2.5	24	12	20	
03/16/94	116.16	102.51	13.65	2,600	12	15	10	17	
06/17/94	116.16	102.87	13.29	2,400	17	19	28	71	
08/29/94	116.16	111.60	4.56	3,000	29	15	20	4.2	
12/06/94	116.16	102.98	13.18	1,900	7.9	30	14	31	
03/31/95	116.16	104.10	12.06	890	<1.3	<1.3	2.6	<1.3	
06/24/95	116.16	102.19	13.97	730	4.8	< 0.5	5.4	0.96	
09/12/95	116.16	102.28	13.88	1,600	<2.5	<2.5	5.4	<2.5	
12/29/95	116.16	103.31	12.85	1,000	9.1	2.7	8.7	2.7	19
02/29/96	116.16	104.09	12.07	850	<2.5	<2.5	8.7	11	<12
06/26/96	116.16	102.50	13.66	2,500	14	< 5.0	13	6.3	<25
09/12/96	116.16	102.25	13.91	1,800	26	19	17	31	37
12/11/96	116.16	103.82	12.34	2,800	<5.0	34	14	< 5.0	41
ABANDONED									
C-4									
12/06/90	116.10	98.42	17.68	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
12/18/90	116.10			< 50	< 0.5	< 0.5	< 0.5	< 0.5	
06/06/91	116.10	99.61	16.49	< 50	1.0	1.0	< 0.5	0.7	
12/04/91	116.10	99.28	16.82	70	6.5	9.8	1.7	8.6	
06/02/92	116.10	99.18	16.92	70	3.0	4.4	1.8	9.0	
09/16/92	116.10	98.39	17.71	< 50	1.4	1.8	< 0.5	1.1	
12/21/92	116.10	100.74	15.36	< 50	0.6	0.7	< 0.5	1.5	
03/11/93	116.10	100.61	15.49	< 50	< 0.5	< 0.5	< 0.5	<1.5	
06/11/93	116.10	99.83	16.27	52	0.9	3.1	0.7	3.8	
09/13/93	116.10	98.92	17.18	64	0.9	1.0	< 0.5	1.7	
12/14/93	116.10	101.03	15.07	< 50	< 0.5	0.8	< 0.5	0.7	
03/16/94	116.10	100.19	15.91	< 50	< 0.5	1.0	< 0.5	0.8	
06/17/94	116.10	99.46	16.64	230	0.6	2.2	2.2	11	
08/29/94	116.10	99.05	17.05	<50	<0.5	< 0.5	< 0.5	< 0.5	

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/	TOC	GWE	DTW	TPH-GRO	В	T	E	X	MTBE
DATE	(ft.)	(msl)	(ft.)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(μg/L)
C-4 (cont)									
12/06/94	116.10	101.52	14.58	<50	< 0.5	< 0.5	< 0.5	< 0.5	
03/31/95	116.10	102.26	13.84	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
06/24/95	116.10	100.05	16.05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
09/12/95	116.10	99.87	16.23	< 50	< 0.5	< 0.5	< 0.5	< 0.5	
12/29/95	116.10	101.35	14.75	< 50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
02/29/96	116.10	102.40	13.70	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/26/96	116.10	100.30	15.80	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/12/96	116.10	99.67	16.43	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/11/96	116.10	103.18	12.92	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
ABANDONED									
MW-4									
09/20/93	118.10	107.17	10.93	5,800	16	4.2	35	48	
12/14/93	118.10	108.33	9.77	7,100	19	6.5	24	35	
03/16/94	118.10	107.99	10.11	8,500	83	43	60	70	
06/17/94	118.10	107.20	10.90	21,000	150	20	140	350	
08/29/94	118.10	107.28	10.82	10,000	86	71	44	85	
12/06/94	118.10	108.70	9.40	13,000	68	56	67	110	
03/31/95	118.10	109.31	8.79	6,700	100	9.4	26	23	
06/24/95	118.10	107.60	10.50	6,300	<20	<20	<20	24	
09/12/95	118.10	107.90	10.20	7,100	65	16	<10	21	
12/29/95	118.10	108.86	9.24	3,300	<10	<10	12	14	720
02/29/96	118.10	111.85	6.25	5,100	<10	37	23	21	85
06/26/96	118.10	107.92	10.18	6,800	<20	<20	<20	<20	<100
09/12/96	118.10	107.53	10.57	13,000	150	<10	38	35	240
12/11/96	118.10	109.39	8.71	26,000	<20	<20	<20	170	<100
03/31/97	118.10	107.18	10.92	12,000	120	74	45	70	240
06/29/97	118.10	106.43	11.67	8,800	24	<10	35	36	62
09/30/97	118.10	107.20	10.90	10,000	<10	<10	37	35	72
12/12/97	118.10	105.16	12.94	4,600	95	41	20	25	91
02/19/98	118.10	110.33	7.77	5,400	87	16	32	31	110
06/16/98 <sup>2</sup>	118.08	107.82	10.26	10,000	<20	<20	35	37	150
NOT MONITORED/S	SAMPLED								

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/	тос	GWE	DTW	TPH-GRO	В	T	E	X	MTBE
DATE	(ft.)	(msl)	(ft.)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)
TRIP BLANK									
12/06/90				<50	< 0.5	< 0.5	< 0.5	< 0.5	
12/18/90				<50	< 0.5	< 0.5	< 0.5	< 0.5	
06/06/91				<50	< 0.5	< 0.5	< 0.5	< 0.5	
12/04/91				<50	< 0.5	< 0.5	< 0.5	< 0.5	
06/02/92				<50	< 0.5	< 0.5	< 0.5	< 0.5	
09/16/92				<50	< 0.5	< 0.5	< 0.5	< 0.5	
12/21/92				<50	< 0.5	< 0.5	< 0.5	< 0.5	
03/11/93				<50	< 0.5	< 0.5	< 0.5	<1.5	
06/11/93				<50	< 0.5	< 0.5	< 0.5	<1.5	
09/13/93				<50	< 0.5	< 0.5	< 0.5	<1.5	
12/14/93				<50	< 0.5	< 0.5	< 0.5	< 0.5	
03/16/94				<50	< 0.5	< 0.5	< 0.5	< 0.5	
06/17/94				<50	< 0.5	< 0.5	< 0.5	< 0.5	
08/29/94				<50	< 0.5	< 0.5	< 0.5	< 0.5	
12/06/94				<50	< 0.5	< 0.5	< 0.5	< 0.5	
03/31/95				<50	< 0.5	< 0.5	< 0.5	< 0.5	
06/24/95				<50	< 0.5	< 0.5	< 0.5	< 0.5	
09/12/95				<50	< 0.5	< 0.5	< 0.5	< 0.5	
12/29/95				<50	< 0.5	< 0.5	< 0.5	< 0.5	
02/29/96				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/26/96				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/12/96				<50	< 0.5	< 0.5	< 0.5	< 0.5	
12/11/96				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
03/31/97				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/29/97				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/30/97				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/12/97				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
02/19/98				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
06/16/98				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
08/31/98				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
12/23/98				<50	< 0.5	< 0.5	< 0.5	< 0.5	2.9
03/09/99				<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5
09/30/99				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
02/29/00				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0

Table 1
Groundwater Monitoring Data and Analytical Results

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	Β (μg/L)	Τ (μg/L)	E (µg/L)	Χ (μg/L)	MTBE (μg/L)
TRIP BLANK (									
09/18/00				<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
03/21/01				<50	< 0.50	< 0.50	< 0.50	< 0.50	<2.5
09/04/01				<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
QA									
03/22/02				<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
09/16/02				<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
03/28/03				<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5
09/02/03 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
03/18/04 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/15/04 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
$03/11/05^7$				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/29/05 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
$03/24/06^7$				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/12/06 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
03/05/07 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/21/07 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
03/06/08 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/05/08 <sup>7</sup>				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
$03/30/09^7$				<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
DISCONTINUE	D								

#### Table 1

#### **Groundwater Monitoring Data and Analytical Results**

Former Chevron Service Station #9-3864 5101 Telegraph Avenue Oakland, California

#### **EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to February 9, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

 $TOC = Top ext{ of Casing}$  GRO = Gasoline Range Organics  $(\mu g/L) = Micrograms ext{ per liter}$ 

B = Benzene -- = Not Measured/Not Analyzed

GWE = Groundwater Elevation T = Toluene (D) = Duplicate

(msl) = Mean sea level E = Ethylbenzene QA = Quality Assurance/Trip Blank DTW = Depth to Water X = Xylenes

TPH = Total Petroleum Hydrocarbons MTBE = Methyl Tertiary Butyl Ether

- ORC in well.
- Laboratory report indicates gasoline C6-C12.
- MTBE by EPA Method 8260.
- Split samples taken by Harding ESE.
- BTEX and MTBE by EPA Method 8260.
- <sup>8</sup> ORC removed from well.

ORC installed.

Transfer of title to Tri-Star Partnership, Inc. effective July 14, 1998.