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Alameda County  
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July 10, 2009

Mr. Paresh Khatri  
**Alameda County Environmental Health Services**  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Subject: Second Quarter 2009 Groundwater Monitoring Report**  
Former AutoPro  
5200 Telegraph Avenue  
Oakland, California

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

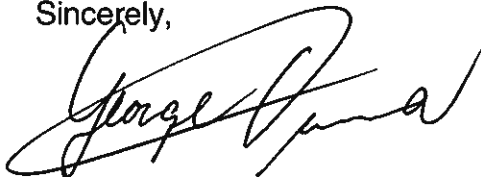
Dear Mr. Khatri:

Tri Star Partnership is pleased to submit the subject Quarterly 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

**SECOND QUARTER 2009  
GROUNDWATER MONITORING REPORT**

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

**SECOND QUARTER 2009  
GROUNDWATER MONITORING REPORT**

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

prepared for

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June 29, 2009  
575-8G012

## **TABLE OF CONTENTS**

STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION .....	i
<b>1.0 INTRODUCTION</b> .....	1
<b>2.0 SITE BACKGROUND</b> .....	1
2.1 HISTORIC SITE USE .....	1
2.2 PREVIOUS ENVIRONMENTAL SITE ACTIVITIES.....	2
2.2.1 <i>Underground Storage Tank Removal - 1990</i> .....	2
2.2.2 <i>Limited Soil and Groundwater Investigation - 1993</i> .....	2
2.2.3 <i>Preliminary Site Assessment and Groundwater Monitoring - 1994</i> ..	2
2.2.4 <i>Site Assessment and Groundwater Monitoring - 1996</i> .....	3
2.2.5 <i>Remediation and Site Closure Report - 1999</i> .....	3
2.2.6 <i>Quarterly Monitoring and Utility Backfill Sampling - 2004</i> .....	4
2.2.7 <i>Site Recommendations From the ACEH - 2008</i> .....	5
2.2.8 <i>Monitoring Well Redevelopment</i> .....	6
2.2.9 <i>Monitoring Well Evaluation</i> .....	6
<b>3.0 REVISED GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS</b> .....	8
3.1 REVISED GROUNDWATER ELEVATIONS.....	8
3.2 REVISED GROUNDWATER ANALYTICAL RESULTS.....	8
<b>4.0 GROUNDWATER MONITORING ACTIVITIES</b> .....	9
4.1 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT.....	9
4.2 GROUNDWATER SAMPLING .....	9
4.3 LABORATORY ANALYSES, RESULTS, AND DISCUSSION .....	10
<b>5.0 CONCLUSIONS AND RECOMMENDATIONS</b> .....	12
<b>6.0 REFERENCES</b> .....	13

### **FIGURES**

- FIGURE 1: SITE LOCATION MAP
- FIGURE 2: REVISED GROUNDWATER ELEVATION MAP (DECEMBER 22, 2009)
- FIGURE 3: REVISED GROUNDWATER ELEVATION MAP (MARCH 4, 2009)
- FIGURE 4: GROUNDWATER ELEVATION MAP (MAY 1, 2009)

### **TABLES**

- TABLE 1: SUMMARY OF GROUNDWATER ELEVATIONS
- TABLE 2: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

### **APPENDICES**

- APPENDIX A: GROUNDWATER PURGE LOGS AND WATER LEVEL DATA
- APPENDIX B: REVISED FIRST QUARTER 2009 LABORATORY REPORT  
AND CHAIN-OF-CUSTODY RECORD
- APPENDIX C: SECOND QUARTER 2009 LABORATORY REPORT  
AND REVISED CHAIN-OF-CUSTODY RECORD

## **STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION**

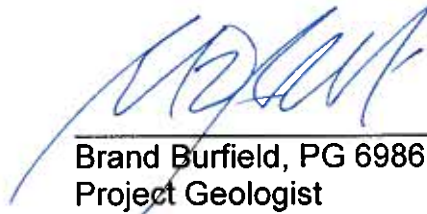
The information provided in this Groundwater Monitoring Report prepared by PSI, Project Number 575-8G012, is intended exclusively for Tri Star Partnership for the evaluation of groundwater contamination as it pertains to the subject site in Oakland, California at the time the activities were conducted. 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  
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 Avenue and Claremont Avenue in Oakland, Alameda County, California (see Figure 1 – Site Location Map). The site is currently asphalt-paved and is 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 includes five former Underground Storage Tanks (USTs) located in 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 Second Quarter 2009 groundwater monitoring activities conducted on May 1, 2009, at the former UST site. The purpose of this project is to monitor petroleum hydrocarbon concentrations in groundwater to comply with the quarterly sampling requirements of the Alameda County Environmental Health Department (ACEH). In addition, this report presents revisions to the groundwater elevation maps for the Fourth Quarter 2008 and the First Quarter 2009 Groundwater Monitoring Reports. A revision is also made to the chemical analysis reported in the First Quarter 2009 report. A more detailed explanation can be found in section 3.

## **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 the present.

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

<b>Summary</b>	
<b>Year(s)</b>	<b>Interpreted Property Use</b>
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 µg/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 µg/l in groundwater samples from AP-1, AP-2 and AP-3. TPH-MO was detected at a concentration of 1,900 µg/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 µg/l and 100 µg/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 µg/l in MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 56 and 1,200 µg/l in MW-1 through MW-4. Ethylbenzene was detected at concentrations of 0.67 µg/l in MW-4 and total xylenes were detected at concentrations of 5.6 and 1.22 µg/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 µg/l in MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 74 and 2,500 µg/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 µg/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 µg/l in monitoring wells MW-1, MW-3, and MW-4 respectively. TPH-D was detected at concentrations between 53 and 3,300 µg/l in all wells except Chevron well MW-2. TPH-MO was detected at concentrations of 450 and 1,400 µg/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 µg/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. As a result, 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 has 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 Monitoring Well Redevelopment

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 monitoring well MW-1, the block was only able to be lowered approximately 14 feet into the well before it became lodged. Several attempts were made to get past the blockage with no success. Fortunately, the well recharged easily during purging, suggesting that the filter pack and screen are in good working order.

### 2.2.9 Monitoring Well Evaluation

In a letter from the Alameda County Environmental Health Services (ACEH) dated March 28, 2008, they expressed concern that the wells were constructed incorrectly such that groundwater levels were above the slotted casing interval of the wells. ACEH is 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.

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 less 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 of a partial blockage of the wells.

### **3.0 REVISED GROUNDWATER ELEVATIONS AND CHEMICAL RESULTS**

#### **3.1 REVISED GROUNDWATER ELEVATIONS**

Revised groundwater elevation maps for the Fourth Quarter 2008 and First Quarter 2009 Groundwater Monitoring Events are being submitted with this report due to an inaccurate Top of Casing (TOC) Elevation of monitoring well MW-3 and a clerical error which resulted in the switching of MW-3 and MW-4 on the Groundwater Elevation Maps. The TOC data used in the Fourth Quarter 2008 Monitoring Event was originally obtained from the Quarterly Monitoring - Fourth Quarter Report written by MACTEC on February 10, 2005. In the MACTEC report, the TOC for monitoring well MW-3 was 113.90 feet. While conducting research for the Site Conceptual Model requested by ACEH, PSI found that damage and subsequent repair to the casing of MW-3 resulted in a reduction in the elevation of about 1.6 inches (QST, 1999). In addition to having an incorrect TOC for MW-3, a clerical error was made whereby the labeling of monitoring wells MW-3 and MW-4 were inadvertently switched on the Groundwater Elevation Maps. Therefore, PSI has revised our Groundwater Summary Table (Table 1) and the Groundwater Elevation Maps for the Fourth Quarter 2008 and First Quarter 2009 Groundwater Monitoring Events (Figures 2 and 3, respectively). Based on the water level measurements obtained, the groundwater flow direction at the subject site is generally toward the west with a hydraulic gradient of approximately 0.013 on December 22, 2008 (Figure 2), and to the southwest with a hydraulic gradient of approximately 0.005 on March 4, 2009 (Figure 3).

A new survey of the TOC elevations of all of the wells is planned for later this year.

#### **3.2 REVISED GROUNDWATER ANALYTICAL RESULTS**

The clerical error that resulted in the labeling switch of monitoring wells MW-3 and MW-4 also resulted in the mislabeling of the groundwater samples collected during the First and Second Quarters of 2009. The Fourth Quarter 2009 analytical results were not affected because the sampling for that quarter was done with an accurate site map and therefore the samples were labeled correctly. The analytical results for the First and Second Quarter Monitoring Events have been revised in Table 2 and the revised laboratory reports can be seen in Appendixes B and C. The revised analytical results are consistent with historical trends.

## **4.0 GROUNDWATER MONITORING ACTIVITIES**

### **4.1 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 May 1, 2009, and calculated groundwater elevations are presented in Table 1. Groundwater elevations representing May 1, 2009, water levels beneath the site are shown on Figure 4. Based on the water level measurements obtained, the groundwater flow direction at the subject site is generally toward the west with a hydraulic gradient of approximately 0.015. 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.

### **4.2 GROUNDWATER SAMPLING**

On May 1, 2009, 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.

#### 4.3 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) and 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 ( $\mu\text{g/L}$ ) in the groundwater samples from MW-1 (120  $\mu\text{g/L}$ ), MW-3 (2,700  $\mu\text{g/L}$ ), and MW-4 (590  $\mu\text{g/L}$ ).
- TPH-D was detected above the laboratory reporting limit of 50  $\mu\text{g/L}$  in the groundwater samples from MW-1 (130  $\mu\text{g/L}$ ), MW-3 (1,700  $\mu\text{g/L}$ ), and MW-4 (400  $\mu\text{g/L}$ ).
- TPH-MO was not detected at or above the laboratory reporting limit of 100  $\mu\text{g/L}$  in any of the groundwater samples collected.

- 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 2.6 µg/L in MW-4
  - Ethylbenzene at 2.2 µg/L in MW-3 and 9.4 µg/L in MW-4
  - Naphthalene at 21 µg/L in MW-4
  - Toluene at 1.2 µg/L in MW-3
  - Total Xylenes at 3.9 µg/L in MW-3
- None of the tested constituents were detected in the groundwater sample from MW-2.

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-1, MW-3, and MW-4 had the following constituents greater than their respective ESL;

- TPH-G in MW-1 at 120 µg/L, MW-3 at 2,700 µg/L, and MW-4 at 590 µg/L (ESL of 100 µg/L)
- TPH-D in MW-1 at 130 µg/L, MW-3 at 1,700 µg/L, and MW-4 at 400 µg/L (ESL of 100 µg/L)
- Benzene in MW-4 at 2.6 µg/L (ESL of 1 µg/L)
- Naphthalene in MW-4 at 21 µg/L (ESL of 17 µg/L)



## **5.0 CONCLUSIONS AND RECOMMENDATIONS**

PSI conducted groundwater monitoring activities on May 1, 2009. The results of the monitoring event are summarized below.

- Based on our field measurements, groundwater at the site flows generally toward the west under a hydraulic gradient of 0.015.
- TPH-G and TPH-D were detected in the groundwater samples from monitoring wells MW-1, MW-3, and MW-4.
- VOCs were detected in all the groundwater samples with the exception of monitoring well MW-2.
- The groundwater samples from MW-1, MW-3, and MW-4 had TPH-G and TPH-D above their respective ESL, and MW-4 had benzene and naphthalene above their 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 the monitoring wells be re-evaluated during the Third Quarter 2009 Groundwater Monitoring event for confirmation of the total depths of the wells.

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

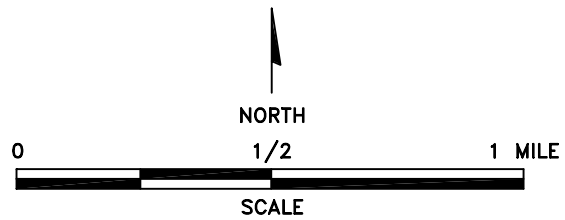
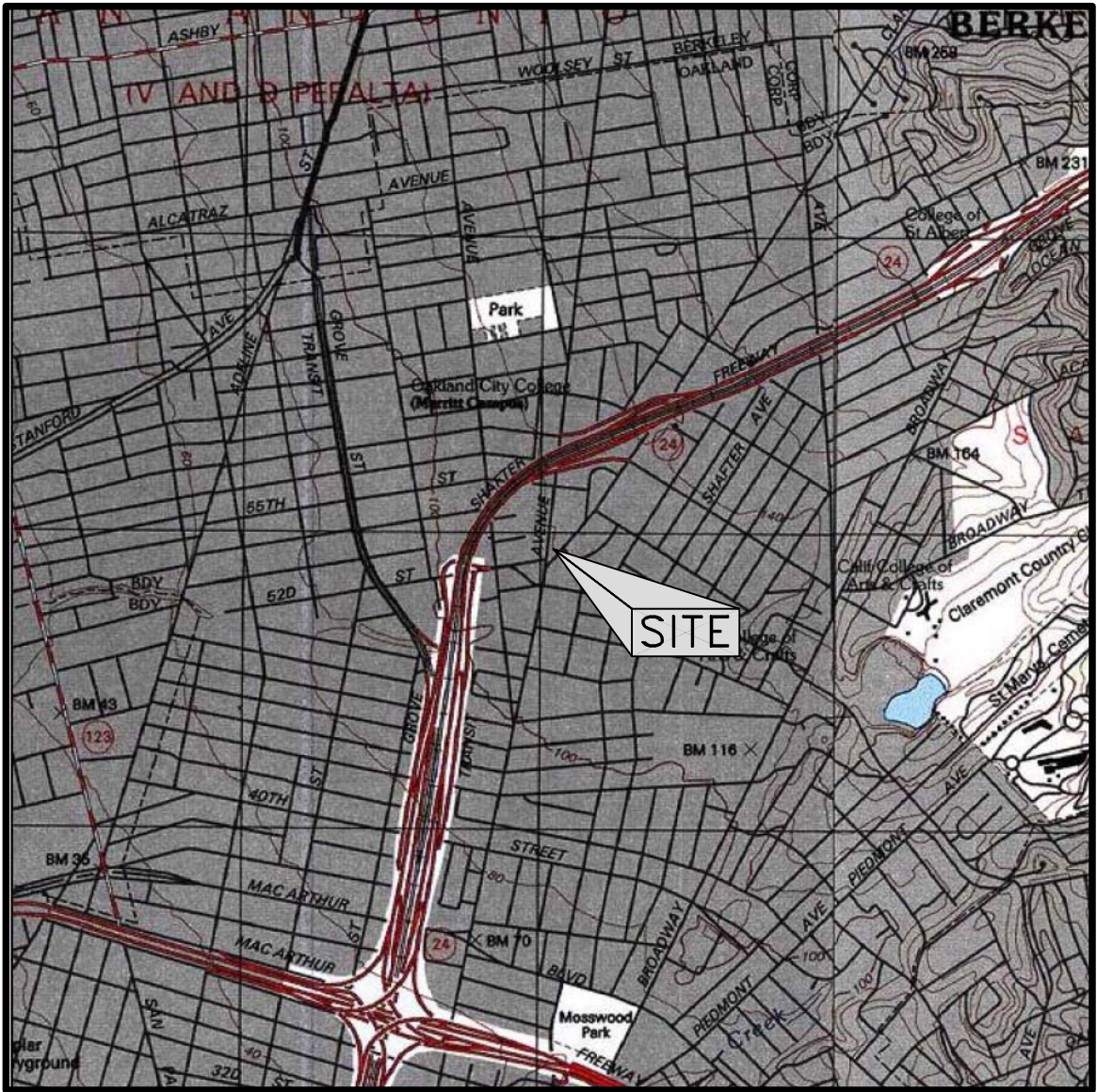
In a letter dated June 26, 2009, ACEH generally concurred with PSI's findings and scope of work outlined in the Workplan and requested that the proposed work and associated reports be undertaken. Additionally, the letter states that semi annual monitoring frequency is appropriate for the site.

PSI recommends that semi-annual groundwater monitoring at the site continue until case closure has been granted.

## **6.0 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"
9. 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.

## **FIGURES**



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

**psi** Information  
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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.

**Date:**  
 01/09

**File No.:**  
 9G012-01

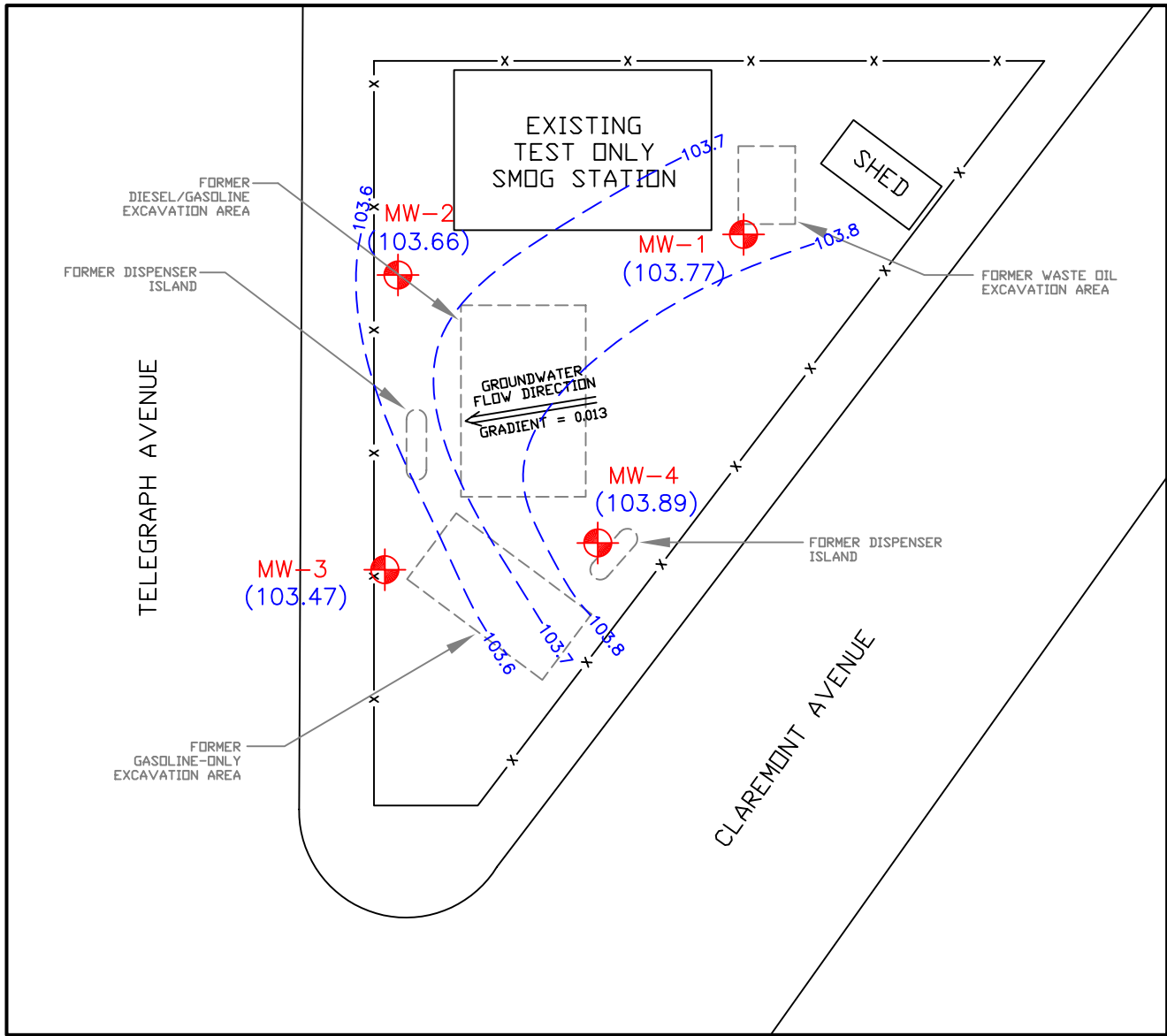
**Figure No.:**

**Title:**  
 SITE LOCATION MAP




**Approved By:**  
 F.P.

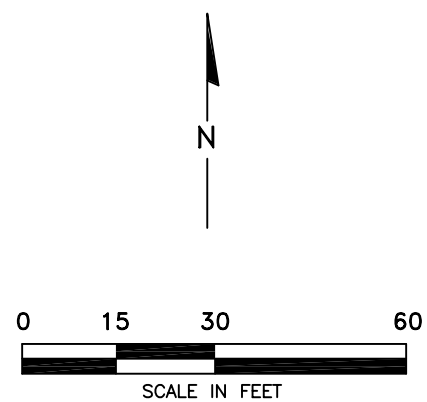
**Project No.:**  
 575-8G012

1




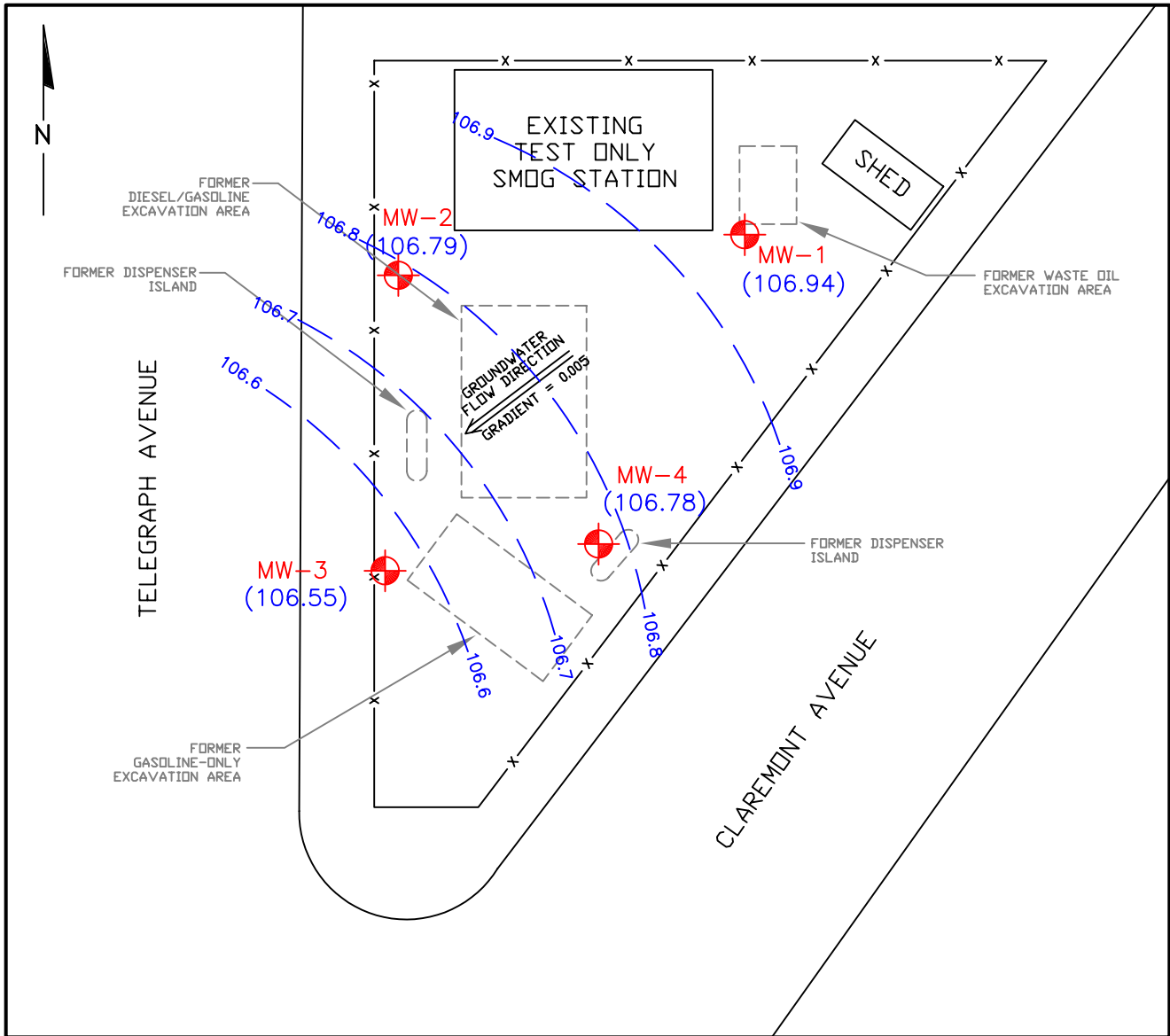
### LEGEND

-  - GROUNDWATER MONITORING WELL LOCATION  
(GROUNDWATER ELEVATION GIVEN IN FEET MSL)
-  - INTERPRETED LINE OF EQUAL GROUNDWATER ELEVATION  
(INDICATED IN FEET MSL)
-  - FENCE




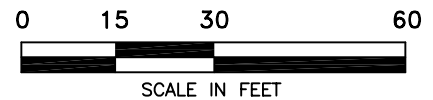
NOTES:  
 1. BASE MAP TAKEN FROM MACTEC,  
 GROUNDWATER CONTOUR MAP -  
 12/14/04, PLATE 3, AUTOPRO INC.,  
 PROJECT NO: 4095041620 03.


 <b>Information To Build On</b> <i>Engineering • Consulting • Testing</i>		<b>4703 Tidewater Avenue, Suite B</b> <b>Oakland, California 94601</b> <b>(510) 434-9200</b>			
<b>Project Name:</b> AUTOPRO 5200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA		<b>Drawn By:</b> E.R.	<b>Date:</b> 05/09	<b>File No.:</b> 8G012-4Q08	<b>2</b>
<b>Title:</b> REVISED GROUNDWATER ELEVATION MAP DECEMBER 22, 2008		<b>Approved By:</b> B.B.	<b>Project No.:</b> 575-8G012		




## LEGEND

 MW-4 (106.78) - GROUNDWATER MONITORING WELL LOCATION (GROUNDWATER ELEVATION GIVEN IN FEET MSL)



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

 - FENCE

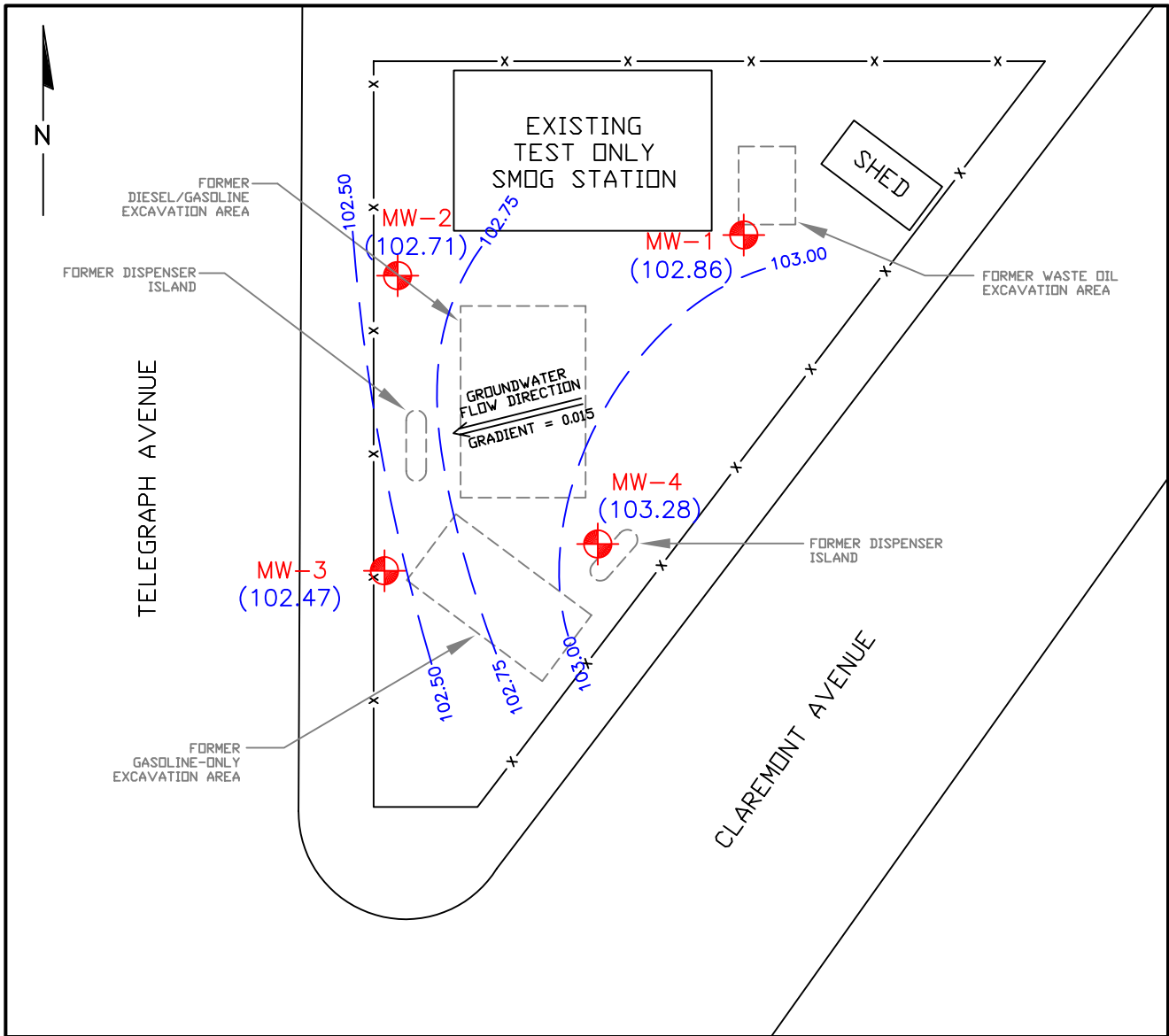
### NOTES:

1. BASE MAP TAKEN FROM MACTEC, GROUNDWATER CONTOUR MAP - 12/14/04, PLATE 3, AUTOPRO INC., PROJECT NO: 4095041620 03.




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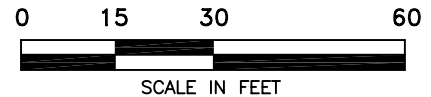
4703 Tidewater Avenue, Suite B  
Oakland, California 94601  
(510) 434-9200

<b>Project Name:</b> AUTOPRO 5200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA		<b>Drawn By:</b> E.R.	<b>Date:</b> 05/09	<b>File No.:</b> 8G012-1Q09	<b>Figure No.:</b>  3
<b>Title:</b> REVISED GROUNDWATER ELEVATION MAP MARCH 4, 2009		<b>Approved By:</b> B.B.	<b>Project No.:</b> 575-8G012		



## LEGEND

-  MW-4 (103.28) - GROUNDWATER MONITORING WELL LOCATION (GROUNDWATER ELEVATION GIVEN IN FEET MSL)
-  -103.00 - INTERPRETED LINE OF EQUAL GROUNDWATER ELEVATION (INDICATED IN FEET MSL)
-  - FENCE



### NOTES:

1. BASE MAP TAKEN FROM MACTEC, GROUNDWATER CONTOUR MAP - 12/14/04, PLATE 3, AUTOPRO INC., PROJECT NO: 4095041620 03.

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(510) 434-9200

<b>Project Name:</b> FORMER AUTOPRO 5200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA		<b>Drawn By:</b> E.R.	<b>Date:</b> 05/09	<b>File No.:</b> 8G012-2Q09	<b>Figure No.:</b> 4
<b>Title:</b> GROUNDWATER ELEVATION MAP MAY 1, 2009		<b>Approved By:</b> B.B.	<b>Project No.:</b> 575-8G012		

## **TABLES**



**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)
<b>MW-1</b>	115.44	12/22/08	11.67	103.77
		3/4/09	8.50	106.94
		5/1/09	12.58	102.86
<b>MW-2</b>	114.62	12/22/08	10.96	103.66
		3/4/09	7.83	106.79
		5/1/09	11.91	102.71
<b>MW-3</b>	113.77	12/22/08	10.30	103.47
		3/4/09	7.22	106.55
		5/1/09	11.30	102.47
<b>MW-4</b>	114.25	12/22/08	10.36	103.89
		3/4/09	7.47	106.78
		5/1/09	10.97	103.28

**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	Benzene	n-Butyl-benzene	sec-Butyl-benzene	tert-Butyl-benzene	Isopropyl-benzene	Ethyl-benzene	p-Isopropyl-toluene	Naphthalene	n-Propyl-benzene	Toluene	1,2,4-Trimethyl-benzene	1,3,5-Trimethyl-benzene	Total Xylenes
MW-1	12/22/08	390	150	<0.5	5.5	3.9	<1.0	3.2	<0.50	<1.0	2.0	7.3	<0.5	<1.0	<1.0	<1.5
	3/4/09	360	64	<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	<0.5	1.5	2.0	<1.0	1.3	<0.50	<1.0	<1.0	2.8	<0.5	<1.0	<1.0	<1.5
MW-2	12/22/08	<50	<50	<0.5	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/4/09	<50	<50	<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	<0.5	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
MW-3	12/22/08	3,600	1,400	<0.5	<1.0	<1.0	<1.0	39	<0.50	14	<1.0	60	<0.5	<1.0	23	9.8
	3/4/09	3,400	1,000	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	<0.5	20	7.2	<1.0	21	2.2	7.5	<1.0	44	1.2	<1.0	<1.0	3.9
MW-4	12/22/08	1,200	700	<0.5	18	9.3	<1.0	10	<0.50	9.0	<1.0	21	<0.5	<1.0	<1.0	<1.5
	3/4/09	1,300	410	<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	2.6	6.4	4.8	<1.0	5.8	9.4	2.1	21	13	<0.5	<1.0	<1.0	<1.5

**Notes:**

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel

The units for all presented values are µg/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

# FLUID MEASUREMENT FIELD DATA

SHEET: 1 OF 1

DATE: 5/1/2009	PROJECT NAME: Tristar	PROJECT NO: 575-8G012
WATER LEVEL MEASUREMENT INSTRUMENT: SOLINST		SERIAL NO: 12080
PRODUCT DETECTION INSTRUMENT:		SERIAL NO:
EQUIP. DECON: <input type="checkbox"/> ALCONOX WASH <input checked="" type="checkbox"/> DIST/DEION 1 RINSE <input type="checkbox"/> ISOPROPANOL <input type="checkbox"/> ANALYTE FREE FINAL RINSE <input type="checkbox"/> TAP WATER FINAL RINSE		
<input type="checkbox"/> TAP WATER WASH <input checked="" type="checkbox"/> LIQUINOX WASH <input type="checkbox"/> DIST/DEION 2 RINSE <input type="checkbox"/> OTHER SOLVENT <input checked="" type="checkbox"/> DIST/DEION FINAL RINSE <input type="checkbox"/> 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		12.58	26.07			9:55
MW-2		114.62		11.91	24.69			10:00
MW-3		113.9		10.97	14.54			10:09
MW-4		114.25		11.30	15.69			10:05
Wells Opened From				9:24-9:32				
Brought new drum to site								
Labeling for MW-3 and MW-4 were inadvertently switched during sampling the laboratory was informed of the error and they have corrected it in their report.								
The analytical report is correct as presented								
Ezkiel Robles 6/30/09								

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

PREPARED BY: EZEKIEL ROBLES

## WELL PURGING AND SAMPLING DATA

DATE: 5/1/2009		PROJECT NAME: TRISTAR	WELL NO: MW-1
		PROJECT NO: 575-8G012	

WEATHER CONDITIONS:

WELL DIAMETER (IN.)     1     2     4     6     OTHER \_\_\_\_\_

SAMPLE TYPE:     GROUNDWATER     WASTEWATER     SURFACE WATER     OTHER

WELL DEPTH (TOC)    26.07    FT.    DEPTH TO WATER BEFORE PURGING (TOC)    12.58    FT.

LENGTH OF WATER    13.49    FT.    CALCULATED ONE WELL VOLUME<sup>1</sup>:    2.3    GAL.

PURGING DEVICE:    POLY BAILER     DEDICATED     DISPOSABLE     DECONTAMINATED

SAMPLING DEVICE:    POLY BAILER     DEDICATED     DISPOSABLE     DECONTAMINATED

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

CONTAINER PRESERVATION:     LAB PRESERVED     FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:    YSI 556 MPS Serial # M61171 AN

ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP <input type="checkbox"/> °F <input checked="" type="checkbox"/> °C	SPECIFIC CONDUCT.	pH	DEPTH TO GROUND WATER		WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
10:36	INITIAL	18.41	446.5	6.82			CL	Hydrocarbon Odor / Clear w/ copper colored particles
10:45	3.0	18.76	439	6.66			CO	/ Brown
10:51	6.0	18.79	429	6.65			CO	
10:57	9.0	18.79	437	6.66				

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

NOTES:	SAMPLE TIME: 11:01    ID# MW-1
	DUPLICATE <input type="checkbox"/> TIME:    ID#:
	EQUIP. BLANK: <input type="checkbox"/> TIME:    ID#:
	PREPARED BY:    EZEKIEL ROBLES

# WELL PURGING AND SAMPLING DATA

					WELL NO: MW-2			
DATE: 5/1/2009		PROJECT NAME: TRISTAR			PROJECT NO: 575-8G012			
WEATHER CONDITIONS:								
WELL DIAMETER (IN.)		<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 4	<input type="checkbox"/> 6	<input type="checkbox"/> OTHER _____		
SAMPLE TYPE:		<input checked="" type="checkbox"/> GROUNDWATER		<input type="checkbox"/> WASTEWATER		<input type="checkbox"/> SURFACE WATER		<input type="checkbox"/> OTHER
WELL DEPTH (TOC)		24.69 FT.		DEPTH TO WATER BEFORE PURGING (TOC)		11.91 FT.		
LENGTH OF WATER		12.78 FT.		CALCULATED ONE WELL VOLUME <sup>1</sup> :		2.2 GAL		
PURGING DEVICE:		POLY BAILER		<input checked="" type="checkbox"/> DEDICATED		<input checked="" type="checkbox"/> DISPOSABLE		<input type="checkbox"/> DECONTAMINATED
SAMPLING DEVICE:		POLY BAILER		<input checked="" type="checkbox"/> DEDICATED		<input checked="" type="checkbox"/> DISPOSABLE		<input type="checkbox"/> DECONTAMINATED
EQUIP. DECON.		<input type="checkbox"/> TAP WATER WASH		<input type="checkbox"/> ISOPROPNOL		<input type="checkbox"/> ANALYTE FREE FINAL RINSE		
<input type="checkbox"/> ALCONOX WASH		<input checked="" type="checkbox"/> DIST/DEION 1 RINSE		<input type="checkbox"/> OTHER SOLVENT		<input checked="" type="checkbox"/> DIST/DEION FINAL RINSE		
<input checked="" type="checkbox"/> LIQUINOX WASH		<input type="checkbox"/> DIST/DEION 2 RINSE		<input type="checkbox"/> TAP WATER FINAL RINSE		<input type="checkbox"/> AIR DRY		
CONTAINER PRESERVATION:		<input checked="" type="checkbox"/> LAB PRESERVED		<input type="checkbox"/> FIELD PRESERVED				
WATER ANALYZER MODEL & SERIAL NO:				YSI 556 MPS Serial # M61171 AN				
ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP <input type="checkbox"/> °F <input checked="" type="checkbox"/> °C	SPECIFIC CONDUCT.	pH	DEPTH TO GROUND WATER	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)	
11:28	INITIAL	18.53	316.45	6.94		CL	No Odor / Clear	
11:34	3.0	18.55	317	6.67		CO	" / Brown	
11:39	6.0	18.52	315	6.56		"	" "	
11:44	9.0	18.52	313	6.50		"	" "	
DEPTH TO WATER AFTER PURGING (TOC)					FT. SAMPLE FILTERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SIZE _____			
NOTES:					SAMPLE TIME: 12:00		ID# MW-2	
					DUPLICATE <input type="checkbox"/> TIME:		ID#:	
					EQUIP. BLANK: <input type="checkbox"/> 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

Well Purging And Sampling Data Rev 3/07

# WELL PURGING AND SAMPLING DATA

	WELL NO: <del>MW-4</del> MW-3
DATE: 5/1/2009	PROJECT NAME: TRISTAR
PROJECT NO: 575-8G012	

6/30/09

WEATHER CONDITIONS:

WELL DIAMETER (IN.)     1     2     4     6     OTHER \_\_\_\_\_

SAMPLE TYPE:     GROUNDWATER     WASTEWATER     SURFACE WATER     OTHER

WELL DEPTH (TOC)    15.69    FT.    DEPTH TO WATER BEFORE PURGING (TOC)    11.30    FT.

LENGTH OF WATER    4.34    FT.    CALCULATED ONE WELL VOLUME<sup>1</sup>:    0.8    GAL

PURGING DEVICE:    POLY BAILER     DEDICATED     DISPOSABLE     DECONTAMINATED

SAMPLING DEVICE:    POLY BAILER     DEDICATED     DISPOSABLE     DECONTAMINATED

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

CONTAINER PRESERVATION:     LAB PRESERVED     FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:    YSI 556 MPS Serial # M61171 AN

ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP <input type="checkbox"/> °F <input checked="" type="checkbox"/> °C	SPECIFIC CONDUCT.	pH	DEPTH TO GROUND WATER	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
12:12	INITIAL	19.10	239 $\mu$ S	6.69		CL	Hydrocarbon / Clean Odor
12:16	1.0	19.31	233	6.61		CO	" / Grey
12:19	2.0	19.32	232	6.53		TU	" "
12:22	3.0	19.22	234	6.72		"	" "
12:25	4.0	19.32	234	6.66		"	" "

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

NOTES:	SAMPLE TIME: 12:30    ID# MW-4
	DUPLICATE <input type="checkbox"/> TIME:    ID#:
	EQUIP. BLANK: <input type="checkbox"/> TIME:    ID#:
	PREPARED BY:    EZEKIEL ROBLES

# WELL PURGING AND SAMPLING DATA

		WELL NO: <del>MW-3</del> <i>MW-4</i> <span style="float: right;">6/30/09</span>
DATE: 5/1/2009	PROJECT NAME: TRISTAR	PROJECT NO: 575-8G012

WEATHER CONDITIONS:

WELL DIAMETER (IN.)     1     2     4     6     OTHER \_\_\_\_\_

SAMPLE TYPE:     GROUNDWATER     WASTEWATER     SURFACE WATER     OTHER

WELL DEPTH (TOC)    14.54    FT.    DEPTH TO WATER BEFORE PURGING (TOC)    *10.97*    FT.

LENGTH OF WATER    *3.57*    FT.    CALCULATED ONE WELL VOLUME<sup>1</sup>:    *0.6*    GAL.

PURGING DEVICE:    POLY BAILER     DEDICATED     DISPOSABLE     DECONTAMINATED

SAMPLING DEVICE:    POLY BAILER     DEDICATED     DISPOSABLE     DECONTAMINATED

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

CONTAINER PRESERVATION:     LAB PRESERVED     FIELD PRESERVED

WATER ANALYZER MODEL & SERIAL NO:    YSI 556 MPS    Serial # M61171 AN

ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP <input type="checkbox"/> °F <input checked="" type="checkbox"/> °C	SPECIFIC CONDUCT.	pH	DEPTH TO GROUND WATER	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, COLOR, PID)
<i>12:52</i>	<i>INITIAL</i>	<i>19.12</i>	<i>76<math>\mu</math>S</i>	<i>7.02</i>		<i>CL</i>	<i>Hydrocarbon Odor / Clear</i>
<i>12:55</i>	<i>1.0</i>	<i>19.13</i>	<i>76</i>	<i>6.98</i>		<i>''</i>	<i>''</i>
<i>12:58</i>	<i>2.0</i>	<i>19.06</i>	<i>77</i>	<i>6.96</i>		<i>''</i>	<i>''</i>
<i>13:01</i>	<i>3.0</i>	<i>19.05</i>	<i>80</i>	<i>6.89</i>		<i>''</i>	<i>''</i>
<i>13:05</i>	<i>4.0</i>	<i>19.10</i>	<i>78</i>	<i>6.81</i>		<i>''</i>	<i>''</i>

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

NOTES:	SAMPLE TIME: <i>13:10</i> ID# <i>MW-3</i>
	DUPLICATE <input type="checkbox"/> TIME:    ID#:
	EQUIP. BLANK: <input type="checkbox"/> TIME:    ID#:
	PREPARED BY:    EZEKIEL ROBLES



**APPENDIX B**

REVISED FIRST QUARTER 2009 LABORATORY REPORT  
AND CHAIN-OF-CUSTODY RECORD



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29 June 2009

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 03/10/09 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John Shepler For Kevin Dixon  
Project Coordinator

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

Project: Tristar  
Project Number: 575-8G012  
Project Manager: Ezekiel Robles

**Reported:**  
06/29/09 16:30

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T900196-01	Water	03/04/09 13:33	03/10/09 10:30
MW-2	T900196-02	Water	03/04/09 12:44	03/10/09 10:30
MW-4	T900196-03	Water	03/04/09 14:57	03/10/09 10:30
MW-3	T900196-04	Water	03/04/09 14:08	03/10/09 10:30

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-8G012 Project Manager: Ezekiel Robles	Reported: 06/29/09 16:30
---	--	-----------------------------

**MW-1**  
**T900196-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C12 (GRO)	0.36	0.050	mg/l	1	9031006	03/10/09	03/10/09	EPA 8015C	
C13-C28 (DRO)	0.064	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		94.2 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	1.0	ug/l	1	9031005	03/10/09	03/12/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>1.8</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>1.8</b>	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	"	"	"	"	"	"	

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John Shepler For Kevin Dixon, Project Coordinator



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**MW-1**  
**T900196-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,2-Dichloroethene	ND	1.0	ug/l	1	9031005	03/10/09	03/12/09	EPA 8260B	
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	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>2.8</b>	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	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.63</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"	

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**MW-1  
T900196-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	9031005	03/10/09	03/12/09	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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %	77.1-110		"	"	"	"	S-GC
<i>Surrogate: Dibromofluoromethane</i>		107 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	84.7-109		"	"	"	"	

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**MW-2  
T900196-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.050	mg/l	1	9031006	03/10/09	03/10/09	EPA 8015C	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		107 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9031005	03/10/09	03/12/09	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	"	"	"	"	"	"	

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**MW-2**  
**T900196-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,2-Dichloroethene	ND	1.0	ug/l	1	9031005	03/10/09	03/12/09	EPA 8260B	
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	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.4</b>	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	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>1.1</b>	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.76</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>1.7</b>	1.0	"	"	"	"	"	"	

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**MW-2**  
**T900196-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	9031005	03/10/09	03/12/09	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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		116 %	77.1-110		"	"	"	"	S-GC
<i>Surrogate: Dibromofluoromethane</i>		106 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	84.7-109		"	"	"	"	

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**MW-4**  
**T900196-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

<b>C6-C12 (GRO)</b>	<b>1.3</b>	0.050	mg/l	1	9031006	03/10/09	03/10/09	EPA 8015C	
<b>C13-C28 (DRO)</b>	<b>0.41</b>	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		103 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9031005	03/10/09	03/12/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>8.4</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>6.2</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>1.0</b>	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	"	"	"	"	"	"	

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**MW-4**  
**T900196-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	9031005	03/10/09	03/12/09	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	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>11</b>	1.0	"	"	"	"	"	"	
<b>p-Isopropyltoluene</b>	<b>3.6</b>	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>1.7</b>	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>22</b>	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	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.1</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	

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

Project: Tristar  
Project Number: 575-8G012  
Project Manager: Ezekiel Robles

**Reported:**  
06/29/09 16:30

**MW-4  
T900196-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-amyl methyl ether	ND	2.0	ug/l	1	9031005	03/10/09	03/12/09	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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		156 %	77.1-110		"	"	"	"	S-GC
<i>Surrogate: Dibromofluoromethane</i>		108 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	84.7-109		"	"	"	"	

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**MW-3**  
**T900196-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Extractable Petroleum Hydrocarbons by 8015C**

<b>C6-C12 (GRO)</b>	<b>3.4</b>	0.050	mg/l	1	9031006	03/10/09	03/10/09	EPA 8015C	
<b>C13-C28 (DRO)</b>	<b>1.0</b>	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		97.6 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9031005	03/10/09	03/12/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>17</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>7.4</b>	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	"	"	"	"	"	"	

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**MW-3**  
**T900196-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	9031005	03/10/09	03/12/09	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	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>34</b>	1.0	"	"	"	"	"	"	
<b>p-Isopropyltoluene</b>	<b>8.3</b>	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>2.5</b>	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>67</b>	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	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>1.8</b>	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>2.2</b>	0.50	"	"	"	"	"	"	
<b>Toluene</b>	<b>3.1</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.9</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>7.9</b>	1.0	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>0.78</b>	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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**MW-3**  
**T900196-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-butyl alcohol	ND	10	ug/l	1	9031005	03/10/09	03/12/09	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>122 %</i>	<i>77.1-110</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>S-GC</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>105 %</i>	<i>66.3-111</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>106 %</i>	<i>84.7-109</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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**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
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**Batch 9031006 - EPA 3510C GC**

**Blank (9031006-BLK1)**

Prepared & Analyzed: 03/10/09

C6-C12 (GRO)	ND	0.050	mg/l							
C13-C28 (DRO)	ND	0.050	"							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: p-Terphenyl	3.88		"	4.00		97.1	65-135			

**LCS (9031006-BS1)**

Prepared & Analyzed: 03/10/09

C13-C28 (DRO)	16.3	0.050	mg/l	20.0		81.4	75-125			
Surrogate: p-Terphenyl	3.77		"	4.00		94.3	65-135			

**Matrix Spike (9031006-MS1)**

Source: T900196-04

Prepared & Analyzed: 03/10/09

C13-C28 (DRO)	16.9	0.050	mg/l	20.0	1.05	79.4	75-125			
Surrogate: p-Terphenyl	4.00		"	4.00		100	65-135			

**Matrix Spike Dup (9031006-MSD1)**

Source: T900196-04

Prepared & Analyzed: 03/10/09

C13-C28 (DRO)	16.9	0.050	mg/l	20.0	1.05	79.0	75-125	0.444	20	
Surrogate: p-Terphenyl	3.80		"	4.00		95.1	65-135			

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 Oakland CA, 94601

Project: Tristar  
 Project Number: 575-8G012  
 Project Manager: Ezekiel Robles

Reported:  
 06/29/09 16:30

**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
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**Batch 9031005 - EPA 5030 GCMS**

**Blank (9031005-BLK1)**

Prepared: 03/10/09 Analyzed: 03/12/09

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	"							

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 Oakland CA, 94601

Project: Tristar  
 Project Number: 575-8G012  
 Project Manager: Ezekiel Robles

Reported:  
 06/29/09 16:30

**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
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**Batch 9031005 - EPA 5030 GCMS**

**Blank (9031005-BLK1)**

Prepared: 03/10/09 Analyzed: 03/12/09

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	"							
Surrogate: 4-Bromofluorobenzene	8.99		"	8.00		112	77.1-110			S-GC
Surrogate: Dibromofluoromethane	8.47		"	8.00		106	66.3-111			
Surrogate: Toluene-d8	8.18		"	8.00		102	84.7-109			

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 Oakland CA, 94601

Project: Tristar  
 Project Number: 575-8G012  
 Project Manager: Ezekiel Robles

Reported:  
 06/29/09 16:30

**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
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**Batch 9031005 - EPA 5030 GCMS**

**LCS (9031005-BS1)**

Prepared: 03/10/09 Analyzed: 03/12/09

Chlorobenzene	20.5	1.0	ug/l	20.0		102	75-125			
1,1-Dichloroethene	23.1	1.0	"	20.0		116	75-125			
Trichloroethene	22.0	1.0	"	20.0		110	75-125			
Benzene	23.2	0.50	"	20.0		116	75-125			
Toluene	21.2	0.50	"	20.0		106	75-125			
Surrogate: 4-Bromofluorobenzene	9.15		"	8.00		114	77.1-110			S-GC
Surrogate: Dibromofluoromethane	8.37		"	8.00		105	66.3-111			
Surrogate: Toluene-d8	8.13		"	8.00		102	84.7-109			

**Matrix Spike (9031005-MS1)**

Source: T900196-01

Prepared: 03/10/09 Analyzed: 03/12/09

Chlorobenzene	18.8	1.0	ug/l	20.0	ND	93.8	75-125			
1,1-Dichloroethene	22.3	1.0	"	20.0	ND	112	75-125			
Trichloroethene	20.2	1.0	"	20.0	ND	101	75-125			
Benzene	22.0	0.50	"	20.0	ND	110	75-125			
Toluene	20.4	0.50	"	20.0	ND	102	75-125			
Surrogate: 4-Bromofluorobenzene	9.37		"	8.00		117	77.1-110			S-GC
Surrogate: Dibromofluoromethane	8.67		"	8.00		108	66.3-111			
Surrogate: Toluene-d8	8.10		"	8.00		101	84.7-109			

**Matrix Spike Dup (9031005-MSD1)**

Source: T900196-01

Prepared: 03/10/09 Analyzed: 03/12/09

Chlorobenzene	19.5	1.0	ug/l	20.0	ND	97.5	75-125	3.87	20	
1,1-Dichloroethene	22.8	1.0	"	20.0	ND	114	75-125	2.39	20	
Trichloroethene	21.3	1.0	"	20.0	ND	107	75-125	5.59	20	
Benzene	23.5	0.50	"	20.0	ND	117	75-125	6.69	20	
Toluene	21.4	0.50	"	20.0	ND	107	75-125	4.88	20	
Surrogate: 4-Bromofluorobenzene	8.76		"	8.00		110	77.1-110			
Surrogate: Dibromofluoromethane	8.68		"	8.00		108	66.3-111			
Surrogate: Toluene-d8	8.19		"	8.00		102	84.7-109			

SunStar Laboratories, Inc.

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John Shepler For Kevin Dixon, Project Coordinator

PSI -- Oakland

Project: Tristar

4703 Tidewater Ave Ste B

Project Number: 575-8G012

Oakland CA, 94601

Project Manager: Ezekiel Robles

**Reported:**

06/29/09 16:30

### 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.

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---

John Shepler For Kevin Dixon, Project Coordinator

SunStar Laboratories, Inc.  
 3002 Dow Ave, Suite 212  
 Tustin, CA 92780  
 714-505-4010

### Chain of Custody Record

Client: PSI  
 Address: 4703 Tidewater Ave Ste B, Oakland, CA 94601  
 Phone: (510) 434-9200 Fax: (510) 434-7676  
 Project Manager: Ezekiel Robles

Date: 3/6/09 Page: 1 Of 1  
 Project Name: Tristar  
 Collector: Ezekiel Robles Client Project #: 575-86012  
 Batch #: T900196

EDF Global ID# T0600100131

COC 81852

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 #	Comments/Preservative	Total # of containers		
MW-1	3-4-09	13:33	WATER	VOA		X						X		01		5		
MW-2	}	12:44	}	}		X						X		02		5		
MW-3		14:57						X					X		03		5	
MW-4		14:08						X					X			04		5
<p>Labeling for MW-3 and MW-4 were inadvertently switched during sampling. The laboratory was informed of the error and they corrected it in their report.</p> <p>The analytical report is correct as presented.</p> <p><i>E. Robles</i> 6/30/09</p>																		
Relinquished by: (signature) <i>E. Robles</i>				Date / Time 3-6-09 17:00		Received by: (signature) <i>GSD Tracking # 106309167</i>				Date / Time 3/10/09 1030		Total # of containers 20		Notes				
Relinquished by: (signature)				Date / Time		Received by: (signature)				Date / Time		Chain of Custody seals Y/N/NA		Y • Create EDF				
Relinquished by: (signature)				Date / Time		Received by: (signature)				Date / Time		Seals intact? Y/N/NA		Y • Diesel reporting limit of 0.050 mg/l				
Relinquished by: (signature)				Date / Time		Received by: (signature)				Date / Time		Received good condition/cold		4.2				
Turn around time: <u>STD</u>																		

Sample disposal instructions: Disposal @ \$2.00 each \_\_\_\_\_ Return to client \_\_\_\_\_ Pickup \_\_\_\_\_

**APPENDIX C**

SECOND QUARTER 2009 LABORATORY REPORT  
AND REVISED CHAIN-OF-CUSTODY RECORD



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

29 June 2009

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 05/04/09 09:00. 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  
4703 Tidewater Ave Ste B  
Oakland CA, 94601

Project: Tristar  
Project Number: 575-8G012  
Project Manager: Ezekiel Robles

**Reported:**  
06/29/09 16:32

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T900393-01	Water	05/01/09 11:01	05/04/09 09:00
MW-2	T900393-02	Water	05/01/09 12:00	05/04/09 09:00
MW-4	T900393-03	Water	05/01/09 13:10	05/04/09 09:00
MW-3	T900393-04	Water	05/01/09 12:30	05/04/09 09:00

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John Shepler, Laboratory Director





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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-8G012 Project Manager: Ezekiel Robles	Reported: 06/29/09 16:32
---	--	-----------------------------

**MW-1**  
**T900393-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	0.12	0.050	mg/l	1	9050408	05/04/09	05/05/09	EPA 8015C	
C13-C28 (DRO)	0.13	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		91.2 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9050405	05/04/09	05/05/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>1.5</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>2.0</b>	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	"	"	"	"	"	"	

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John Shepler, Laboratory Director



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**MW-1**  
**T900393-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

cis-1,2-Dichloroethene	ND	1.0	ug/l	1	9050405	05/04/09	05/05/09	EPA 8260B	
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	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>1.3</b>	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>2.8</b>	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	"	"	"	"	"	"	

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John Shepler, Laboratory Director



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-8G012 Project Manager: Ezekiel Robles	Reported: 06/29/09 16:32
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**MW-1**  
**T900393-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	9050405	05/04/09	05/05/09	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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.9 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	84.7-109		"	"	"	"	

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**MW-2  
 T900393-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	ND	0.050	mg/l	1	9050408	05/04/09	05/05/09	EPA 8015C	
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		75.9 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9050405	05/04/09	05/05/09	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	"	"	"	"	"	"	

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John Shepler, Laboratory Director

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

Project: Tristar  
Project Number: 575-8G012  
Project Manager: Ezekiel Robles

**Reported:**  
06/29/09 16:32

**MW-2  
T900393-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	9050405	05/04/09	05/05/09	EPA 8260B
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-Dichloropropane	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	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
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	"	"	"	"	"	"

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John Shepler, Laboratory Director



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-8G012 Project Manager: Ezekiel Robles	<b>Reported:</b> 06/29/09 16:32
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**MW-2**  
**T900393-02 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

o-Xylene	ND	0.50	ug/l	1	9050405	05/04/09	05/05/09	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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	77.1-110		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.2 %	66.3-111		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.4 %	84.7-109		"	"	"	"	

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-8G012 Project Manager: Ezekiel Robles	Reported: 06/29/09 16:32
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**MW-4**  
**T900393-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	0.59	0.050	mg/l	1	9050408	05/04/09	05/05/09	EPA 8015C	
C13-C28 (DRO)	0.40	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		91.4 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9050405	05/04/09	05/05/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>6.4</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>4.8</b>	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	"	"	"	"	"	"	

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John Shepler, Laboratory Director

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

Project: Tristar  
Project Number: 575-8G012  
Project Manager: Ezekiel Robles

**Reported:**  
06/29/09 16:32

**MW-4  
T900393-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

trans-1,2-Dichloroethene	ND	1.0	ug/l	1	9050405	05/04/09	05/05/09	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	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>5.8</b>	1.0	"	"	"	"	"	"	
<b>p-Isopropyltoluene</b>	<b>2.1</b>	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>21</b>	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>13</b>	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	"	"	"	"	"	"	
<b>Benzene</b>	<b>2.6</b>	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>9.4</b>	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	

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**MW-4**  
**T900393-03 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-amyl methyl ether	ND	2.0	ug/l	1	9050405	05/04/09	05/05/09	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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>140 %</i>		<i>77.1-110</i>					<i>S-GC</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>96.2 %</i>		<i>66.3-111</i>					
<i>Surrogate: Toluene-d8</i>		<i>99.4 %</i>		<i>84.7-109</i>					

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**MW-3  
T900393-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015C**

C6-C12 (GRO)	2.7	0.050	mg/l	1	9050408	05/04/09	05/05/09	EPA 8015C	
C13-C28 (DRO)	1.7	0.050	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		82.2 %	65-135		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	1.0	ug/l	1	9050405	05/04/09	05/05/09	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
<b>n-Butylbenzene</b>	<b>20</b>	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>7.2</b>	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	"	"	"	"	"	"	

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**MW-3**  
**T900393-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

trans-1,2-Dichloroethene	ND	1.0	ug/l	1	9050405	05/04/09	05/05/09	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	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>21</b>	1.0	"	"	"	"	"	"	
<b>p-Isopropyltoluene</b>	<b>7.5</b>	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
<b>n-Propylbenzene</b>	<b>44</b>	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	"	"	"	"	"	"	
<b>Toluene</b>	<b>1.2</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.2</b>	0.50	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>3.9</b>	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-8G012 Project Manager: Ezekiel Robles	Reported: 06/29/09 16:32
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**MW-3**  
**T900393-04 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Tert-amyl methyl ether	ND	2.0	ug/l	1	9050405	05/04/09	05/05/09	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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>136 %</i>		<i>77.1-110</i>					<i>S-GC</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>93.8 %</i>		<i>66.3-111</i>					
<i>Surrogate: Toluene-d8</i>		<i>107 %</i>		<i>84.7-109</i>					

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Tristar Project Number: 575-8G012 Project Manager: Ezekiel Robles	Reported: 06/29/09 16:32
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**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
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**Batch 9050408 - EPA 3510C GC**

**Blank (9050408-BLK1)**

Prepared & Analyzed: 05/04/09

C6-C12 (GRO)	ND	0.050	mg/l							
C13-C28 (DRO)	ND	0.050	"							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: p-Terphenyl	3.65		"	4.00		91.2	65-135			

**LCS (9050408-BS1)**

Prepared & Analyzed: 05/04/09

C13-C28 (DRO)	15.5	0.050	mg/l	20.0		77.3	75-125			
Surrogate: p-Terphenyl	2.62		"	4.00		65.5	65-135			

**LCS Dup (9050408-BSD1)**

Prepared: 05/04/09 Analyzed: 05/05/09

C13-C28 (DRO)	17.3	0.050	mg/l	20.0		86.3	75-125	11.1	20	
Surrogate: p-Terphenyl	3.67		"	4.00		91.7	65-135			

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PSI -- Oakland  
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 Oakland CA, 94601

Project: Tristar  
 Project Number: 575-8G012  
 Project Manager: Ezekiel Robles

Reported:  
 06/29/09 16:32

**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
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**Batch 9050405 - EPA 5030 GCMS**

**Blank (9050405-BLK1)**

Prepared: 05/04/09 Analyzed: 05/05/09

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	"							

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 Oakland CA, 94601

Project: Tristar  
 Project Number: 575-8G012  
 Project Manager: Ezekiel Robles

Reported:  
 06/29/09 16:32

**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
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**Batch 9050405 - EPA 5030 GCMS**

**Blank (9050405-BLK1)**

Prepared: 05/04/09 Analyzed: 05/05/09

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	"							
Surrogate: 4-Bromofluorobenzene	9.35		"	8.00		117	77.1-110			S-GC
Surrogate: Dibromofluoromethane	7.81		"	8.00		97.6	66.3-111			
Surrogate: Toluene-d8	8.04		"	8.00		100	84.7-109			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

John Shepler, Laboratory Director

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

Project: Tristar  
Project Number: 575-8G012  
Project Manager: Ezekiel Robles

**Reported:**  
06/29/09 16:32

**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
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**Batch 9050405 - EPA 5030 GCMS**

**LCS (9050405-BS1)**

Prepared: 05/04/09 Analyzed: 05/05/09

Chlorobenzene	21.0	1.0	ug/l	20.0		105	75-125			
1,1-Dichloroethene	19.5	1.0	"	20.0		97.6	75-125			
Trichloroethene	21.1	1.0	"	20.0		105	75-125			
Benzene	19.7	0.50	"	20.0		98.4	75-125			
Toluene	18.9	0.50	"	20.0		94.3	75-125			
Surrogate: 4-Bromofluorobenzene	8.52		"	8.00		106	77.1-110			
Surrogate: Dibromofluoromethane	7.56		"	8.00		94.5	66.3-111			
Surrogate: Toluene-d8	8.59		"	8.00		107	84.7-109			

**Matrix Spike (9050405-MS1)**

Source: T900393-01

Prepared: 05/04/09 Analyzed: 05/05/09

Chlorobenzene	20.2	1.0	ug/l	20.0	ND	101	75-125			
1,1-Dichloroethene	19.6	1.0	"	20.0	ND	98.1	75-125			
Trichloroethene	18.8	1.0	"	20.0	ND	94.2	75-125			
Benzene	19.2	0.50	"	20.0	ND	96.2	75-125			
Toluene	18.7	0.50	"	20.0	ND	93.6	75-125			
Surrogate: 4-Bromofluorobenzene	9.29		"	8.00		116	77.1-110			S-GC
Surrogate: Dibromofluoromethane	7.97		"	8.00		99.6	66.3-111			
Surrogate: Toluene-d8	8.09		"	8.00		101	84.7-109			

**Matrix Spike Dup (9050405-MSD1)**

Source: T900393-01

Prepared: 05/04/09 Analyzed: 05/05/09

Chlorobenzene	20.4	1.0	ug/l	20.0	ND	102	75-125	0.641	20	
1,1-Dichloroethene	18.8	1.0	"	20.0	ND	94.1	75-125	4.16	20	
Trichloroethene	18.6	1.0	"	20.0	ND	92.8	75-125	1.60	20	
Benzene	19.3	0.50	"	20.0	ND	96.6	75-125	0.363	20	
Toluene	18.7	0.50	"	20.0	ND	93.5	75-125	0.0535	20	
Surrogate: 4-Bromofluorobenzene	8.84		"	8.00		110	77.1-110			
Surrogate: Dibromofluoromethane	7.57		"	8.00		94.6	66.3-111			
Surrogate: Toluene-d8	8.13		"	8.00		102	84.7-109			

SunStar Laboratories, Inc.

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John Shepler, Laboratory Director



PSI -- Oakland

Project: Tristar

4703 Tidewater Ave Ste B

Project Number: 575-8G012

Oakland CA, 94601

Project Manager: Ezekiel Robles

**Reported:**

06/29/09 16:32

### 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

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SunStar Laboratories, Inc.

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John Shepler, Laboratory Director

SunStar Laboratories, Inc.  
 3002 Dow Ave, Suite 212  
 Tustin, CA 92780  
 714-505-4010

### Chain of Custody Record

Client: PSI  
 Address: 4703 Tidewater Ave Ste B, Oakland, CA 94601  
 Phone: (510) 434-9200 Fax: (510) 434-7676  
 Project Manager: Ezekiel Robles

Date: 5/1/09 Page: 1 Of 1  
 Project Name: Tristar  
 Collector: Ezekiel Robles Client Project #: 575-86012  
 Batch #: T900393

EDF Global ID# T0600100131

COC 81863

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 #	Comments/Preservative	Total # of containers	
MW-1	5-1-09	11:01	WATER	V09		X						X		01		5	
MW-2	}	12:00	}	}		X						X		02		5	
MW-3 S		13:10						X					X		03		5
MW-4 S		12:30						X					X		04		5
<p>- Labeling for MW-3 and MW-4 were inadvertently switched during sampling. The laboratory was informed of the error and they have corrected it in their report</p> <p>The analytical report is correct as presented</p> <p>End Note 6/30/09</p>																	
Relinquished by: (signature) <u>Ezekiel Robles</u>		Date / Time 5-1-09 / 16:00		Received by: (signature) <u>GSO Trating # 106292344</u>		Date / Time		Total # of containers 20		Chain of Custody seals Y/N/NA Y		Seals intact? Y/N/NA Y		Received good condition/cold 5.9		Notes • Create EDF • RL = 0.050 mg/L for TPH-6 and TPH-D • RL = 0.100 mg/L for TPH-MD	
Relinquished by: (signature) <u>GSO</u>		Date / Time 5-4-09 9am		Received by: (signature) <u>B. Chavez</u>		Date / Time 5-4-09 9am		Turn around time: <u>STD</u>									
Relinquished by: (signature)		Date / Time		Received by: (signature)		Date / Time											