February 24, 2014

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

Alameda, California 94502-6577

Subject:

1st Semi-Annual 2014 Groundwater Monitoring Report

Former AutoPro

5200 Telegraph Avenue, Oakland, California

Case Number RO0000323

GeoTracker Global ID T0600100131

PSI Project No. 575-102-9

Dear Mr. Khatri:

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

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

If you have any questions regarding this report or any aspect of the project, please call Mr. Frank Poss with PSI at 510-434-9200 (x303).

Sincerely,

George Tuma
General Partner
Tri Star Partnership

cc: Mr. Frank Poss, PSI



1st SEMI-ANNUAL 2014 GROUNDWATER MONITORING REPORT

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

1st SEMI-ANNUAL 2014 GROUNDWATER MONITORING REPORT

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

prepared for

Tri Star Partnership 30 Arjang Court Alamo, California 94507

prepared by

Professional Service Industries, Inc. 4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200

February 20, 2014 575-102-9



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STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

The information provided in this Groundwater Monitoring Report prepared by PSI, Project Number 575-102-9, is intended exclusively for Tri Star Partnership for the evaluation of groundwater contamination as it pertains to the subject site in Oakland, California at the time the activities were conducted. The professional services provided have been performed in accordance with practices generally accepted by other environmental professionals, geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface soil and groundwater sampling, there is no guarantee that the work conducted has identified any and all sources or locations of petroleum hydrocarbons or hazardous substances or chemicals in the soil or groundwater.

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

Professional Service Industries, Inc.

Frank R. Poss Principal Consultant Brand Burfield, PG 6986

BRAND W. BURFIELD

Project Geologist



1.0 INTRODUCTION

The Subject Property is an approximately 9,000 square foot, triangular-shaped parcel located at 5200 Telegraph Avenue, on the northeastern corner of Telegraph and Claremont Avenue in Oakland, Alameda County, California (see Figure 1 – Site Location Map). The site is asphalt-paved and is currently used as a smog testing facility ("Test Only Smog Station") but was formerly an auto repair facility ("Autopro") and a Shell gasoline service station. The subject site formerly included five Underground Storage Tanks (USTs) which were removed from three separate excavation areas. The three excavations include an approximately 140 square-foot former waste oil UST excavation on the northeastern portion of the property, a 750 square-foot excavation which contained three former gasoline or diesel USTs near the center of the property, and a 450 square-foot former gasoline UST (and associated piping) excavation on the southern portion of the property. Locations of the existing site improvements and the former UST excavations are depicted on Figure 2.

This report summarizes the 1st Semi-Annual 2014 groundwater monitoring activities conducted on February 7, 2014, at the former UST site. The purpose of this project is to monitor petroleum hydrocarbon concentrations in groundwater to comply with the sampling requirements of the Alameda County Environmental Health Department (ACEH).

2.0 SITE BACKGROUND

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

2.1 HISTORICAL SITE USE

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



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

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

2.2 PREVIOUS ENVIRONMENTAL SITE ACTIVITIES

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

2.2.1 Underground Storage Tank Removal - 1990

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

2.2.2 Limited Soil and Groundwater Investigation - 1993

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

2.2.3 Preliminary Site Assessment and Groundwater Monitoring - 1994

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



According to the Second Quarter 1994 Groundwater Monitoring Report, groundwater flow direction at the site is bimodal and flows both to the southwest and east, dependent 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 μ g/l in groundwater samples from AP-1, AP-2, AP-3, and AP-6. TPH-G was detected at concentrations ranging between 1,400 and 14,000 μ g/l in groundwater samples from AP-1, AP-2 and AP-3. TPH-MO was detected at a concentration of 1,900 μ g/l in the groundwater sample from AP-6. In addition BTEX constituents were detected in groundwater samples from AP-1, AP-2, and AP-3. MTBE was detected at concentrations of 60 μ g/l and 100 μ g/l in groundwater samples from AP-2 and AP-3 (ESE, 1996).

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

2.2.5 Remediation and Site Closure Report - 1999

In 1998, with approval from the ACEH, it was determined that oxygen release compounds (ORCs) would be introduced into MW-3 and MW-4 to enhance the biodegradation of the contaminant plume at the site. ORCs were placed in MW-3 and MW-4 on March 23, 1998 by QST Environmental (QST). This resulted in a slight increase of BTEX and TPH immediately after the installation of the ORCs. According to QST, the increase in hydrocarbons may have been a result of the increase in the groundwater table elevation; the increased elevation may have caused a mobilization of additional petroleum hydrocarbon constituents from the capillary fringe thus increasing concentrations. Constituents have declined or stabilized since the removal of the ORCs, and as such, QST determined that constituent reduction and degradation was enhanced by the ORC (QST, 1999).

QST conducted a risk assessment as part of their site closure report. The evaluation focused on MW-1 through MW-4, the closest wells to the source. Concentrations of constituents in MW-5 (a nearby off-site Chevron well) indicate that the plume has



stabilized in the downgradient (southwest) direction. The risk assessment was tied to the identification of the constituents of concern, potential pathways in environmental media, and potential receptors of exposure. According to the report the objectives of the site conceptual model have been realized through the identification of soil and groundwater as the environmental media for remedial action via soil vapor extraction and water entrainment. Receptors of potential exposure were based on residential land use and groundwater as a drinking water resource (QST, 1999).

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

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

2.2.6 Quarterly Monitoring and Utility Backfill Sampling – 2004

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

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

In August 2004, two borings were advanced to approximately 16 feet bgs adjacent to the sanitary sewer line and storm drain line to investigate if the utility corridor was a conduit for contamination migration. This investigation was performed at the request of the ACEH in a letter dated December 24, 2002. The intent of the investigation was to obtain grab groundwater samples from each of the utility trench backfills. However, the boring adjacent to the sanitary sewer line was dry. Therefore, samples were obtained only from the storm drain backfill. The samples collected from the storm drain backfill



were tested for TPH-G, TPH-D, benzene, toluene, ethylbenzene and xylenes were detected at concentrations of 57,000, 29,000, 9.5, 36, 11, and 29 μ g/l respectively. Concentrations of contaminants of concern in the areas explored suggest that the release from the site has migrated to the utility trenches, which have acted as a preferential pathway for the contaminants (MACTEC, 2004).

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

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

2.2.7 Site Recommendations From the ACEH - 2008

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

Since groundwater monitoring at the site had not been conducted since Fourth Quarter 2004, the ACEH recommended that quarterly monitoring be initiated and the wells be re-developed at the site. In addition it was recommended that a new site conceptual model be developed for the subject property and that all analytical data from 2001



onward be submitted via the SWRCB Geotracker website, with all reports from July 1, 2005 onward be submitted to the website as well (ACEH, 2008).

2.2.8 Addressing ACEH Recommendations

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

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

During groundwater sampling, the bottom of each well was sounded to determine the total depth. It was determined that the sounded depths below the top of casing are 26.07, 24.69, 14.54, and 15.69 feet for MW-1 through MW-4 respectively. With the exception of MW-2, these measured depths do not agree with the installation data for the wells; the depths of MW-1, MW-3, and MW-4 all measure to be about 5 to 10 feet 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 seemingly "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 cause of the discrepancy is a partial blockage of the wells.



2.2.9 Workplan for Site Investigation

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

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

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

2.2.10 Site Investigation - 2012

In May 2012, PSI advanced and sampled soil and groundwater from three geoprobe borings at the subject site; B-1 was drilled to evaluate a former fuel dispenser on the west side of the site as a potential contaminant source; B-2 was drilled to evaluate whether improper installation of the existing monitoring wells at the site are affecting the detected contaminant concentrations; and B-3 was drilled to provide subsurface information near the downgradient (southwest) corner of the site for an upcoming Site Conceptual Model.

The report concluded that the former west-side fuel dispenser island does not appear to be a source of contamination and that the existing monitoring wells appear to provide adequate characterization of contaminant concentrations in groundwater. A well survey was also conducted to provide location and elevation data for the wells that is up to current standards.



3.0 GROUNDWATER MONITORING ACTIVITIES

The current groundwater monitoring program includes semi-annual sampling of monitoring wells MW-1, MW-2, MW-3, and MW-4.

3.1 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT

Prior to sampling on February 7, 2014, 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.

Depths to groundwater and calculated groundwater elevations are presented in Table 1. Groundwater contours representing interpreted water levels beneath the site are shown on Figure 2. Historically, the groundwater flow direction at the subject property has been generally toward the southwest, which is consistent with data obtained from groundwater monitoring reports for three sites within 1,000 feet of the subject property. Based on the water level measurements obtained from wells MW-1, MW-2 and MW-3, the groundwater flow direction at the subject site is generally toward the southwest with a hydraulic gradient of approximately 0.0015.

The groundwater level from MW-4 was not used in the calculation of this gradient because it conflicts with the data from the other 3 wells. This discrepancy has been noted in almost all of the monitoring events since PSI first measured groundwater levels at the site in 2008. Upon review of the geologic logs for the installation of the wells (ESE, 1994) it is apparent that there is a significant difference in the soil strata between MW-4 and the other 3 wells. This difference in layering of permeable and relatively impermeable soils and their interaction with the installed well screen may help explain the discrepancy in the measured water levels.

3.2 GROUNDWATER SAMPLING

On February 7, 2014, 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. Each well was purged with a new, single-use dedicated bailer. If purged dry, the wells were allowed to recover to at least 80 percent of their original static groundwater levels or two hours were allowed to pass prior to sampling.
- 4. Water samples were collected with a single-use disposable bailer after the well was purged. The water collected was immediately decanted into laboratory-supplied vials and bottles. The containers were filled, capped, labeled, and placed in a chilled cooler prior to delivery at the laboratory for analysis.
- 5. Chain of custody procedures, including chain of custody forms, were used to document water sample handling and transport from collection to delivery at the laboratory for analyses.
- 6. Purged water was contained in a DOT approved 55-gallon drum and left on site for proper disposal. The drum was labeled with the contents, date, well number, client name, and project number.

The purge logs are presented in Appendix A.

3.3 LABORATORY ANALYSIS, RESULTS, AND DISCUSSION

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

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

The following are the results of the groundwater analysis:

- TPH-G was not detected above the method detection limit of 13 micrograms per liter (µg/L) in the groundwater samples from any of the wells.
- TPH-D was detected above the method detection limit of 16 μg/L only in the groundwater sample from MW-3 at a concentration of 680 μg/L.
- TPH-MO was detected above the method detection limit of 13 μg/L only in the groundwater sample from MW-3 at a concentration of 48 μg/L.
- Only two BTEX constituents (ethylbenzene and xylenes) were detected in any of the groundwater samples; only in the groundwater sample from MW-3 at 1.9 and 4.4 μg/L, respectively.



- Various other VOCs associated with hydrocarbon contamination were detected above their respective laboratory reporting limit in the groundwater samples collected from MW-1, MW-3 and MW-4.
- 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 groundwater is a drinking water resource. The following constituent was detected at greater than its ESL;

TPH-D in MW-3 at 680 µg/L (ESL of 100 µg/L)

None of the other tested constituents were detected at greater than their ESL.

3.4 COORDINATED REPORTING WITH NEARBY CHEVRON SITE

The nearby Chevron #9-3864, located at 5101 Telegraph Avenue (southwest and generally downgradient of the subject site, across the intersection of Telegraph and 52nd Street) has suspended their groundwater monitoring, as they have requested case closure from the RWQCB. As such, there are no corresponding groundwater levels or analytical results for comparison.



4.0 CONCLUSIONS AND RECOMMENDATIONS

PSI conducted groundwater monitoring activities on February 7, 2014. The results of the monitoring event are summarized below.

- Based on our field measurements, groundwater at the site flows generally toward the southwest under a hydraulic gradient of 0.0015.
- TPH-G was not detected in the groundwater samples from any of the wells. TPH-D and TPH-MO were detected only in the sample collected from groundwater monitoring well MW-3.
- Only two BTEX constituents (ethylbenzene and xylenes) were detected, and only in the groundwater sample from MW-3.
- Other VOCs associated with petroleum hydrocarbon contamination were detected in the groundwater samples from MW-1, MW-3 and MW-4.
- TPH-D (in MW-3) was the only constituent detected at a concentration greater than its ESL.
- None of the tested constituents were detected in the groundwater sample from MW-2.

Based on the analytical results, petroleum hydrocarbon-impacted groundwater is present in the area of the former UST excavations.

PSI is currently preparing a site conceptual model report for the site to evaluate whether the conditions at the site satisfy the criteria to qualify for closure under the recently adopted "Low-Threat Underground Storage Tank Case Closure Policy" (CAWRCB, 2012). PSI recommends that semi-annual groundwater monitoring at the site continue until case closure has been granted.



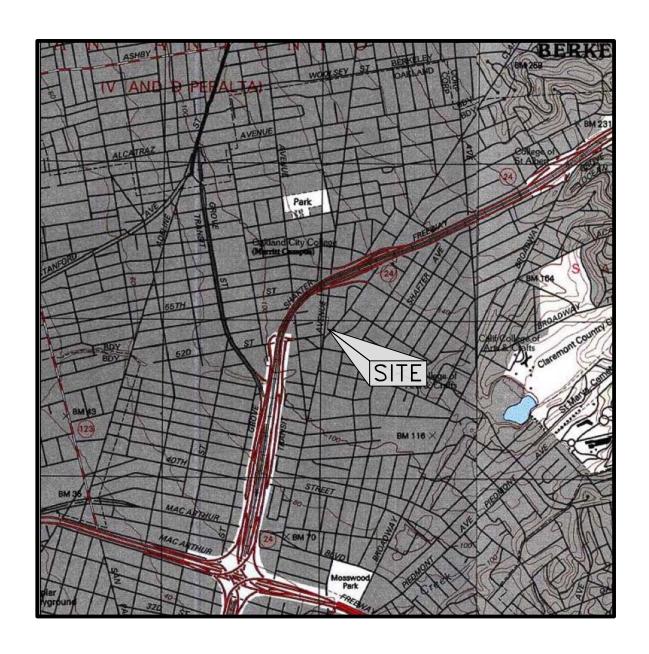
5.0 REFERENCES

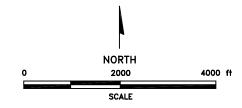
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FIGURES







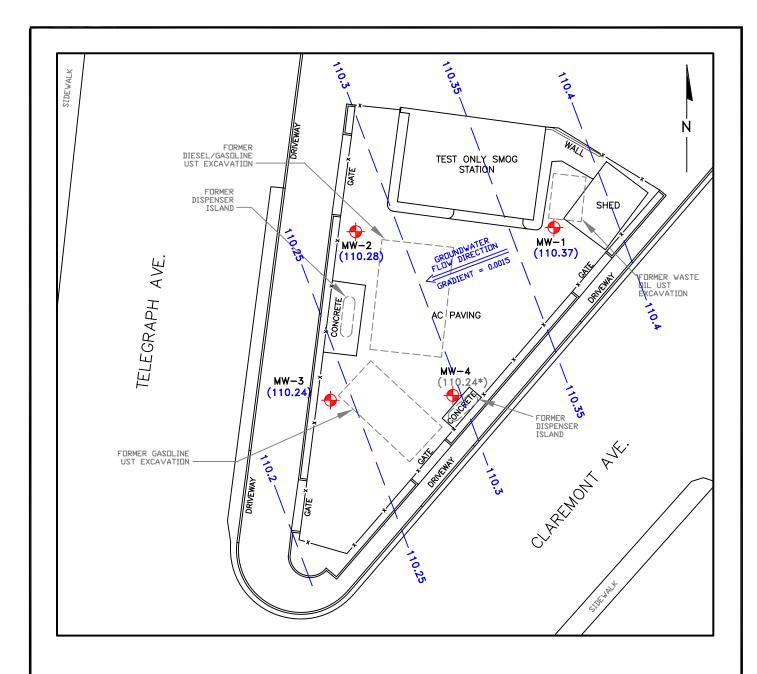
REFERENCE:

U.S.G.S. OAKLAND WEST AND OAKLAND EAST, CALIFORNIA, 7.5 MINUTE SERIES TOPO-GRAPHIC MAPS, DATED 1993 AND 1997.

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

Project Name: TEST ONLY SMOG STATION	Drawn By:	Date:	File No.:	Figure No.:
(FORMER AUTOPRO) 5200 telegraph avenue, oakland, california	S.R.	2/14	102-9-1	1
TYGGE: SITE LOCATION MAP	Approved By: F.P.		102-9	



LEGEND



- GROUNDWATER MONITORING WELL LOCATION (GROUNDWATER ELEVATION GIVEN IN FEET)

~1_{10.3}

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



NOTES

- BASE MAP TAKEN FROM MORROW SURVEYING, DWG. NO. 6381-043, DATED MAY, 2012.
- * MW-4 WAS NOT USED IN GRADIENT CALCULATION.



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

60ft

30

APPROXIMATE SCALE

15

Proje	ot Name: TEST ONLY SMOG STATION (FORMER AUTOPRO) 5200 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA	Drawn By: B.B.	Date: 2/14	File No.: 102-9-2	Figure No.:
Title:	GROUNDWATER ELEVATION MAP (FEBRUARY 7, 2014)	Approved By: F.P.		102-9	~

TABLES



TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS

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

Well Number	TOC Elevation (ft msl)	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft msl)
MW-1	123.49	12/22/08	11.67	111.82
		3/4/09	8.50	114.99
		5/1/09	12.58	110.91
		7/20/09	13.30	110.19
		3/2/10	10.17	113.32
		9/23/10	13.56	109.93
		3/2/11	10.55	112.94
		7/21/11	12.66	110.83
		3/21/12	10.03	113.46
		9/25/12	13.72	109.77
		3/6/13	12.17	111.32
		9/30/13	11.08	112.41
		2/7/14	13.12	110.37
MW-2	122.69	12/22/08	10.96	111.73
		3/4/09	7.83	114.86
		5/1/09	11.91	110.78
		7/20/09	12.64	110.05
		3/2/10	9.49	113.20
		9/23/10	13.02	109.67
		3/2/11	9.98	112.71
		7/21/11	12.11	110.58
		3/21/12	9.47	113.22
		9/25/12	13.07	109.62
			3/21/12 10.03 113.4 3/25/12 13.72 109.7 3/6/13 12.17 111.3 3/30/13 11.08 112.4 2/7/14 13.12 110.3 2/7/14 13.12 110.3 2/22/08 10.96 111.7 3/4/09 7.83 114.6 5/1/09 11.91 110.7 7/20/09 12.64 110.0 3/2/10 9.49 113.2 3/2/11 9.98 112.7 7/2/11 12.11 110.5 3/2/11 9.98 112.7 3/2/11 9.98 112.7 3/2/11 10.9 10.6 3/2/11 9.98 112.7 3/2/11 9.98 112.7 3/2/11 10.9 10.6 3/2/11 10.9 10.9 3/3/30/13 11.21 110.5 3/2/14 12.41 110.5 3/4/09 7.22 114.6 3/2/10 8.94 112.5 3/2/10 8.94 <td>110.90</td>	110.90
		9/30/13		111.48
		2/7/14		110.28
MW-3	121.87	12/22/08		111.57
				114.65
				110.57
				109.94
				112.93
				109.72
				112.64
		7/21/11		110.53
				113.22
				109.55
				110.83
				111.58
				110.24
MW-4	122.30		1	
				114.83
		5/1/09	10.97	111.33
		7/20/09	11.56	110.74
		3/2/10	8.89	113.41
		9/23/10	11.64	110.66
		3/2/11	8.92	113.38
		7/21/11	10.86	111.44
		3/21/12	8.51	113.79
		9/25/12	12.32	109.98
		3/6/13	10.42	111.88
		9/30/13	9.12	113.18
		2/7/14	12.06	110.24

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS Test Only SMOG Station (Former Autopro)

5200 Telegraph Avenue, Oakland, California

Sample Number	Date	TPH-G	TPH-D	ТРН-МО	Benzene	n-Butyl- benzene	sec-Butyl- benzene	tert-Butyl- benzene	Isopropyl- benzene	Ethyl- benzene	p- Isopropyl- toluene	Naph- thalene	n-Propyl- benzene	Toluene	1,2,4- Trimethyl- benzene	1,3,5- Trimethyl- benzene	Total Xylenes
MW-1	12/22/08	390	150	<100	<0.5	5.5	3.9	<1.0	3.2	<0.5	<1.0	2.0	7.3	<0.5	<1.0	<1.0	<1.5
	3/4/09	360	64	<100	<0.5	1.8	1.8	<1.0	1.3	0.63	<1.0	1.3	2.8	<0.5	<1.0	<1.0	1.1
	5/1/09	120	130	<100	<0.5	1.5	2.0	<1.0	1.3	<0.5	<1.0	<1.0	2.8	<0.5	<1.0	<1.0	<1.5
	7/20/09	<50	110	330	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	1.3	<0.5	<1.0	<1.0	<1.5
	3/2/10	<50	<50	<100	<0.5	1.1	1.7	<1.0	1.1	<0.5	<1.0	<1.0	2.1	<0.5	<1.0	<1.0	<1.5
	9/23/10	<50	<50	<100	<0.5	<1.0	1.2	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/2/11	57	110	<100	<0.5	<1.0	3.2	<1.0	2.5	<0.5	<1.0	<1.0	4.5	<0.5	<1.0	<1.0	<1.5
	7/21/11	<50	430	<100	<0.5	2.1	1.8	<1.0	1.7	<0.5	<1.0	<1.0	3.9	<0.5	<1.0	<1.0	<1.5
	3/21/12	700	100	<100	<0.5	2.2	1.9	<1.0	2.1	<0.5	<1.0	<1.0	4.3	<0.5	<1.0	<1.0	<1.5
	9/25/12	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/6/13	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	1.1	<0.5	<1.0	<1.0	2.0	<0.5	<1.0	<1.0	<1.5
=	9/30/13	<50	140	<100	<0.5	2.9	2.7	<1.0	4.5	<0.5	<1.0	<1.0	7.3	<0.5	<1.0	<1.0	<1.5
	2/7/14	<13	<16	<13	<0.5	1.4	1.8	<1.0	2.8	<0.5	<1.0	<1.0	3.5	<0.5	<1.0	<1.0	<1.5
MW-2	12/22/08	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/4/09	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	0.76	<1.0	1.4	<1.0	<0.5	1.1	<1.0	1.7
	5/1/09	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	7/20/09	<50	59	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/2/10	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	9/23/10	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/2/11	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	7/21/11	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/21/12	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	9/25/12	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	3/6/13	<50	<50	<100	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	9/30/13	<50	210	<100	<0.5	2.7	<1.0	<1.0	2.2	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5
	2/7/14	<13	<16	<13	<0.5	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.5

Sample Number	Date	TPH-G	TPH-D	ТРН-МО	Benzene	n-Butyl- benzene	sec-Butyl- benzene	tert-Butyl- benzene	Isopropyl- benzene	Ethyl- benzene	p- Isopropyl- toluene	Naph- thalene	n-Propyl- benzene	Toluene	1,2,4- Trimethyl- benzene	1,3,5- Trimethyl- benzene	Total Xylenes
MW-3	12/22/08	3,600	1,400	<100	<0.5	<1.0	<1.0	<1.0	39	<0.5	14	<1.0	60	<0.5	<1.0	23	9.8
	3/4/09	3,400	1,000	<100	2.2	17	7.4	<1.0	34	3.9	8.3	2.5	67	3.1	<1.0	1.8	8.68
	5/1/09	2,700	1,700	<100	<0.5	20	7.2	<1.0	21	2.2	7.5	<1.0	44	1.2	<1.0	<1.0	3.9
	7/20/09	2,100	1,400	<100	<0.5	19	9.8	<1.0	25	1.5	5.6	1.0	57	1.1	<1.0	<1.0	4.5
	3/2/10	4,500	1,000	<100	8.0	<1.0	8.8	<1.0	26	2.1	6.6	<1.0	58	2.0	<1.0	<1.0	4.1
	9/23/10	230	880	270	<0.5	13	8.4	<1.0	20	0.88	3.5	<1.0	40	0.63	<1.0	<1.0	3.2
	3/2/11	6,900	1,900	<100	<0.5	<1.0	13	<1.0	38	2.5	8.4	<1.0	81	1.1	<1.0	<1.0	7.2
	7/21/11	1,600	1,700	1,100	<0.5	9.9	6.2	<1.0	15	0.64	3.0	1.1	29	<0.5	<1.0	<1.0	2.2
	3/21/12	2,500	800	<100	<0.5	18	8.3	<1.0	33	1.6	5.2	<1.0	75	1.0	<1.0	<1.0	4.1
	9/25/12	1,800	1,500	<100	0.67	22	8.2	<1.0	20	0.74	5.2	<1.0	47	0.93	<1.0	<1.0	2.4
	3/6/13	610	790	<100	<0.5	16	9.6	<1.0	22	<0.5	5.0	<1.0	47	<0.5	<1.0	<1.0	3.4
	9/30/13	<50	620	<100	<0.5	14	9.3	<1.0	18	<0.5	4.7	<1.0	39	<0.5	<1.0	<1.0	2.8
	2/7/14	<13	680	48	<0.5	14	9.1	<1.0	22	1.9	5.7	<1.0	45	<0.5	<1.0	<1.0	4.4
MW-4	12/22/08	1,200	700	<100	<0.5	18	9.3	<1.0	10	<0.5	9.0	<1.0	21	<0.5	<1.0	<1.0	<1.5
	3/4/09	1,300	410	<100	<0.5	8.4	6.2	1.0	11	1.1	3.6	1.7	22	<0.5	<1.0	<1.0	1.2
	5/1/09	590	400	<100	2.6	6.4	4.8	<1.0	5.8	9.4	2.1	21	13	<0.5	<1.0	<1.0	<1.5
	7/20/09	440	260	<100	<0.5	4.4	3.5	<1.0	3.8	<0.5	1.6	<1.0	7.9	<0.5	<1.0	<1.0	<1.5
	3/2/10	860	370	<100	<0.5	<1.0	4.0	<1.0	4.3	0.57	2.0	<1.0	7.6	<0.5	<1.0	1.9	<1.5
	9/23/10	<50	82	<100	<0.5	1.6	2.0	<1.0	1.7	<0.5	<1.0	<1.0	2.2	<0.5	<1.0	<1.0	<1.5
	3/2/11	<50	8,400	18,000	<0.5	<1.0	2.8	<1.0	2.6	<0.5	1.3	<1.0	4.2	<0.5	<1.0	<1.0	<1.5
	7/21/11	810	1,100	1,200	<0.5	1.1	1.5	<1.0	1.1	<0.5	<1.0	<1.0	1.6	<0.5	<1.0	<1.0	<1.5
	3/21/12	810	120	<100	<0.5	2.1	1.9	<1.0	1.8	<0.5	1.1	<1.0	3.3	<0.5	<1.0	<1.0	<1.5
	9/25/12	<50	520	<100	<0.5	2.0	1.4	<1.0	<1.0	<0.5	<1.0	<1.0	1.4	<0.5	<1.0	<1.0	<1.5
	3/6/13	<50	<50	<100	<0.5	1.4	2.4	<1.0	1.3	<0.5	<1.0	<1.0	2.0	<0.5	<1.0	<1.0	<1.5
	9/30/13	<50	83	<100	<0.5	1.4	2.2	<1.0	1.1	<0.5	<1.0	<1.0	1.6	<0.5	<1.0	<1.0	<1.5
	2/7/14	<13	<16	<13	<0.5	2.5	3.1	<1.0	2.2	<0.5	1.6	<1.0	4.1	<0.5	<1.0	<1.0	<1.5

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
All VOCs not listed were below their laboratory reporting limit.

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 limit shown.

APPENDIX A

GROUNDWATER PURGE LOGS AND WATER LEVEL DATA



FLUID MEASUREMENT FIELD DATA SHEET: 1 OF 1 DATE: 2/7/2014 PROJECT NAME: Tristar PROJECT NO: 575-102-9 WATER LEVEL MEASUREMENT INSTRUMENT: SOLINST SERIAL NO: 12080 PRODUCT DETECTION INSTRUMENT: SERIAL NO: EQUIP. DECON: ☐ ALCONOX WASH ☑ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE ☐ TAP WATER WASH LIQUINOX WASH ☑ DIST/DEION FINAL RINSE ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ☐ AIR DRY WELL **GROUND** TOP OF **DEPTH TO DEPTH TO PRODUCT** WELL WATER **ACTUAL** NUMBER SURFACE CASING **PRODUCT** WATER DEPTH **THICKNESS** TABLE TIME **ELEVATION ELEVATION BELOW TOC BELOW TOC BELOW TOC ELEVATION** 13.12 MW-1 123.49 26.03 12.41 MW-2 122.69 24.69 MW-3 11.63 121.87 14.37 12.06 MW-4 122.30 15.69 WEUS OPENED IN ORDER OF MM-2, 1, 4,3 10:00-10:15 1 Open Ful 1/8 PUL 1 DRVM REMEMBER TO CORRECT PRODUCT THICKNESS FOR DENSITY BEFORE CALCULATING WATER TABLE ELEVATION PREPARED BY: RUBEN DONAHAN

Fluid Measurement Field Data

And the second of the second o

Rev. 2/99

		V	VELL P	URGIN	IG AND	SAN	IPLING	DATA		
							WELL	IO: MW-1		
DATE:	2/7/2014	PROJEC	CT NAME: TE	RISTAR	•	-	PROJE	CT NO: 575-102	2-9	
WEATHER	R CONDITION	ONS: O	VETC CAS	ST & K	187N					
WELL DIA	METER (IN	l.)	<u> </u>	X 2	☐ 4	□ 6	OTHER			
SAMPLE	TYPE: [GROUNI	DWATER	☐ wast	EWATER	SUR	RFACE WATE	R OTHER		
WELL DE	РТН (ТОС)	2	6.03	FT	. DEPTH 1	O WATER	BEFORE PL	JRGING (TOC)	13.12	FT.
LENGTH (OF WATER	1	291	FT	CALCUL	ATED ON	NE WELL VO	DLUME1: 2	.19	GAL.
PURGING	DEVICE:	P0	DLY BAILER		X DEDIC	ATED [X DISPOSA	BLE DECON	TAMINATED	
SAMPLIN	G DEVIĆE:	P0	DLY BAILER		X DEDIC	ATED [X DISPOSA	BLE DECON	TAMINATED	
EQUIP. DI			P WATER WA		=	ISOPROP.		ANALYTE FREE		
	CONOX WA QUINOX WA		X DIST/DEIC	ON 1 RINSE ON 2 RINSE			OLVENT <u>IX.</u> ER FINAL RIÌ	DIST/DEION FIN. NSE AIR D		
	ER PRESE		_	PRESERVE		PRESER'		102		
			SERIAL NO	:					<u> </u>	
				'M 	YRON L UL	TRAMETE	ER SERIAL #	# 6226128		
ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP □ °F ☑ °C	SPECIFIC CONDUCT.	pH	DEPTH TO GROUND WATER		WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	(EVIDENT	REMARKS FODOR, COLOR, PID)
	INITIAL	Uio	281.3	7.29			a	School 14	oper/as	enz
MAN (25	947	297%b	9.23			(3		1(<u> </u>
He al	5	19.9.	301.9	7.12			h	1	١	
1 28	15	189	303.3	7.[3			n		41	-
11:35		WEI	u sami	prep						
							<u> </u>			<u> </u>
	<u> </u>									
				<u> </u>					<u> </u>	•
				_					<u> </u>	
									· · · · ·	
				<u> </u>	ļ				<u> </u>	
	O WATER	AFTER PU	JRGING (TO	C)		<u> </u>		YES X NO	SIZE	
NOTES:					SAMPLE 1		11-35		IW-T	
					DUPLICAT		TIME:	ID#:		
	•				EQUIP. BL		TIME:	ID#:		
					PREPARE	D BY:	RUBEN	I DONAHAN		

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

	V	VELL P	URGIN	IG ANI	D SAN	JPLING	DATA				
	•				<u> </u>	WELL N	O: MW-2	2			
DATE: 2/7/2014	PROJEC	CT NAME: TI	RISTAR			PROJE	CT NO: 575-1	102-9			
WEATHER CONDITION	ONS: O	VERUAS	TUR	ATTV							
WELL DIAMETER (IN		<u> </u>	X 2	<u> </u>	□ 6	OTHER					
SAMPLE TYPE:	GROUNI	DWATER	☐ WAS	TEWATER	SUF	RFACE WATE	R 🗌 OTHE	R			
WELL DEPTH (TOC)	2	4.69	FT	. DEPTH	TO WATER	R BEFORE PL	IRGING (TOC)	12.41	FT.		
LENGTH OF WATER		fg 78	FT	CALCULATED ONE WELL VOLUME1: \$109							
PURGING DEVICE:	PC	DLY BAILER		X DEDIC	ATED	X DISPOSA	BLE DECC	ONTAMINATED			
SAMPLING DEVICE:	PC	DLY BAILER		X DEDIC	ATED	X DISPOSA	BLE DECC	ONTAMINATED	<u>.</u>		
EQUIP. DECON.		P WATER W			ISOPROP			EE FINAL RINSE			
ALCONOX WAS		X DIST/DEK	ON 1 RINSE ON 2 RINSE			ER FINAL RIN	DIST/DEION F				
CONTAINER PRESE			PRESERVE		PRESER		13E L.J AII				
WATER ANALYZER);								
			M'	YRON L UL	TRAMETI	ER SERIAL #	6226128				
ACTUAL CUMUL. TIME VOLUME	TEMP □ °F	SPECIFIC CONDUCT.	pН	. DEPTH TO GROUND		WATER APPEAR	(EVIDE	RÉMARKS ENT ODOR, COLOR, PID)	}		
(MIN) PURGED	⊠ °c	00,100011		WATER		CL=CLEAR	(==				
(GAL)						CO=CLOUDY TU=TURBID					
10:23 INITIAL	198	173.9	8.45			CL	NO DOOR	1 WEAR			
10:30 2.5	14.8	171.3	7.96			ы	,	į.			
10:35 5	20.2	170.5	7.92			ln.		h			
10:40 7.5	24.3	175.1	1.72			17		£ ŧ			
10:45 -	WET	r sar	puso								
								·	_		
							<u> </u>				
				<u> </u>	<u> </u>						
		<u> </u>						· 			
					<u> </u>						
			<u></u>			<u> </u>	<u> </u>		.		
DEPTH TO WATER A	AFTER PU	JRGING (TO	C)				YES X N				
NOTES:				SAMPLE 1		10:46	ID#	mw-2			
				DUPLICAT		TIME:	ID#:		<u>, </u>		
				EQUIP. BI		TIME:	ID#: I DONAHAN				

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

		V	VELL P	URGIN	IG ANI) SA	MPLIN	IG D	ATA			
							WE	LL NO:	MW-3	}		
DATE:	2/7/2014	PROJEC	T NAME: TF	RISTAR			PRO	DJECT !	NO: 575-1	02-9		
WEATHER	R CONDITI	ONS: Ø	VERLAS	TAPK	7W.							
WELL DIA	METER (IN		□ 1	X 2	□ 4	☐ €	В Потн	IER				
SAMPLE 1	TYPE:	GROUNE	OWATER	☐ WAST	TEWATER .	□ s	URFACE W	ATER	OTHE	R		
WELL DE	РТН (ТОС)	1	4.37	FT	. DEPTH	TO WAT	ER BEFOR	E PURG	ING (TOC)	11.	63	FT.
LENGTH (OF WATER		274	FT	CALCUI	LATED	ONE WELI	VOLU	ME ¹ :	0.41	58	GAL.
PURGING	DEVICE:	PC	DLY BAILER	<u> </u>	X DEDIC	CATED	X DISP	OSABLE	DECC	IIMATN	NATED	
SAMPLING	G DEVICE:	PC	DLY BAILER		X DEDIC	CATED	X DISP	OSABLE	DECC	IIMATA	NATED	
EQUIP. DI			P WATER W				OPANOL	-	ALYTE FRE			
	CONOX WA		X DIST/DEK	ON 1 RINSE ON 2 RINSE			SOLVENT ATER FINAL		T/DEION FI	INAL KII RDRY	NSE	
	ER PRESE			PRESERVE								
WATER A	NALYZER	MODEL &	SERIAL NO		YRON L UL	TRAME	TER SERI	AL # 62	26128			
ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	X °C TEMP	SPECIFIC CONDUCT.	рΉ	DEPTH TO GROUND WATER		WATE APPE CL=CLI CO=CLC TU=TUE	AR EAR OUDY	(EVIDE	REMA NT ODOR	RKS , COLOR, PID)
12:23	INITIAL	19.5	163.8	731					C 000/2	7	EVER	Filcht Link
12.25	0.5	19.9	167.8	7.01			સ્			10	<u>.</u>	
12:27	1.0	19.8	168.4	6.97) (7,		
12:30	1.5	19.8	170.3	6.35			la		•	z	·	
12:40		WELL	SAMPL	Ι.								
						ļ						
	<u> </u>					ļ						
									_			
	· · · -	· · · · · · · · · · · · · · · · · · ·			<u> </u>		_ _					
		-			<u> </u>		:					· ·
		<u> </u>			<u> </u>	14		-				
DEDT! T	OWATER) ^ = = = = = = = = = = = = = = = = = = =	IDOINO (TO		L							
NOTES:	- WATER	AFIER PL	JRGING (TO	(·)		<u> </u>			YES X N			
INOTES:			•		SAMPLE 1		12:40 :TIME:	-	ID#	'MW	-)	
					EQUIP. BL		TIME:	-	ID#: ID#:		<u></u>	
	<u> </u>		 .	* .	PREPARE			REN DO	NAHAN			

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

		V	VELL P	URGIN	IG ANI	SAN	IPLING	DATA		
							WELL N	10: MW-	4	
DATE:	2/7/2014	PROJEC	CT NAME: TI	RISTAR			PROJE	CT NO: 575-1	102-9	
WEATHER	R CONDITI	ONS: OL	EMAST	d pa	IN					
	METER (IN		<u> </u>	x 2	<u> </u>	□ 6	OTHER			
SAMPLE	TYPE:	GROUNI	DWATER	☐ was	TEWATER	SUR	FACE WATE	R OTHE	ER	
WELL DE	PTH (TOC)	1	5.69	FΥ	DEPTH	ΓΟ WATER	BEFORE PL	JRGING (TOC)	12.06	FT
LENGTH (OF WATER		3,63	FT	CALCUI	LATED ON	NE WELL VO	DLUME ¹ :	0.6171	GAL
PURGING	DEVICE:	PO	DLY BAILER		X DEDIC	ATED [DISPOSA	BLE DEC	ONTAMINATED	
SAMPLIN	G DEVICE:	P(OLY BAILER		X DEDIC	CATED [X DISPOSA	BLE DEC	ONTAMINATED	
EQUIP. D			P WATER W			ISOPROPA			EE FINAL RINSE	
	CONOX WA		X DIST/DEK	ON 1 RINSE ON 2 RINSE	_			DIST/DEION F	'INAL RINSE R DRY	
	ER PRESE					D PRESER	ER FINAL RIN	NOE LIAN	RURY	
			SERIAL NO	:			<u> </u>			
				M'	YRON L UL	TRAMETE	ER SERIAL #	# 6226128		
ACTUAL TIME	CUMUL. VOLUME	TEMP □ %	SPECIFIC CONDUCT.	PΗ	DEPTH TO GROUND		WATER APPEAR	(EVIDE	REMARKS ENT ODOR, COLOR, PID)
(MIN)	PURGED	⊠ ან	GONDOO.		WATER		CL=CLEAR	(21102	055.1, 0020.1, 15	,
	(GAL)						CO=CLOUDY TU=TURBID			
11:95	INIŢIAL	155	86.96	7,60			cc-to	SUTGETIFIED D	of tant an	W)
12:00	0;35	16.1	84.15	7,52			(-		tr .	
12:04	1.5	16.3	₹6.89	7,43			e F		te	
0161	2.25	16.1	86.94	139			ti		Lr	
1245		Wen	8 AMPL	ED -						
							<u> </u>			
		<u> </u>								
		<u> </u>					<u> </u>			
 -			,s.							
	<u> </u>					<u> </u>	<u> </u>			
				<u></u>	<u> </u>		<u> </u>			
<u> </u>	O WATER	AFTER PU	JRGING (TO	(C)	FT.	<u> </u>		YES X	IO SIZE	
NOTES:					SAMPLE 1		18:15	ID#	1716-4	
					DUPLICAT		TIME:	ID#:		
					EQUIP. BL		TIME:	ID#:	•	
					PREPARE	.D BY:	RUBEN	NAHANOD I		

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

APPENDIX B

LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORD





13 February 2014

Brand Burfield 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 02/10/14 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kotherine Running Crane

Katherine RunningCrane Project Manager



PSI -- Oakland Project: Tristar
4703 Tidewater Ave Ste B Project Number: 575-102-9
Oakland CA, 94601 Project Manager: Brand Burfield

Reported: 02/13/14 14:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T140237-01	Water	02/07/14 11:35	02/10/14 09:00
MW-2	T140237-02	Water	02/07/14 10:45	02/10/14 09:00
MW-3	T140237-03	Water	02/07/14 12:40	02/10/14 09:00
MW-4	T140237-04	Water	02/07/14 12:15	02/10/14 09:00



PSI -- Oakland Project: Tristar

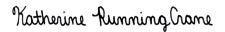
4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

MW-1 T140237-01(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar La	aboratori	es, Inc.					
Extractable Petroleum Hydroc	arbons by 8015C									
C6-C12 (GRO)	ND	0.013	0.50	mg/l	1	4021009	02/10/14	02/11/14	EPA 8015C	
C13-C28 (DRO)	ND	0.016	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.013	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl			68.8 %	65-	135	"	"	"	"	
Volatile Organic Compounds b	y EPA Method 82	60B								
Bromobenzene	ND	_	1.0	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
Bromochloromethane	ND		1.0	"	"	"	"	"	"	
Bromodichloromethane	ND		1.0	"	"	"	"	"	"	
Bromoform	ND		1.0	"	"	"	"	"	"	
Bromomethane	ND		1.0	"	"	"	"	"	"	
-Butylbenzene	1.4		1.0	"	"	"	"	"	II .	
ec-Butylbenzene	1.8		1.0	"	"	"	"	"	"	
ert-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	"	"	"	"	"	"	
-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
Dibromochloromethane	ND		1.0	"	"	"	"	"	"	
,2-Dibromo-3-chloropropane	ND		5.0	"	"	"	"	"	"	
,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"	
Dibromomethane	ND		1.0	"	"	"	"	"	"	
,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	n .	
,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	n .	
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	n .	
,1-Dichloroethane	ND		1.0	"	"	"	"	"	"	
,2-Dichloroethane	ND		0.50	"	"	"	"	"	"	
,1-Dichloroethene	ND		1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		1.0	"	"	"	,,	,,	"	

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.





PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

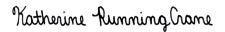
MW-1 T140237-01(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

		SunStar La	aboratorie	es, Inc.				
Volatile Organic Compounds	<u> </u>	1.0			1021011	024044	00/11/11	ED 1 02 00 D
trans-1,2-Dichloroethene	ND	1.0	ug/l "	1	4021014	02/10/14	02/11/14	EPA 8260B
1,2-Dichloropropane	ND	1.0	"	"	"	,,	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	,,	,,	"
2,2-Dichloropropane	ND	1.0	"	"	"	,,	,,	"
1,1-Dichloropropene	ND	1.0	"	"	"	,,	,,	,,
cis-1,3-Dichloropropene	ND	0.50		"	"	,,	,,	"
trans-1,3-Dichloropropene	ND	0.50	"	"		"		
Hexachlorobutadiene	ND	1.0	"		"		"	"
Isopropylbenzene	2.8	1.0	"	"	"	"	"	"
o-Isopropyltoluene	ND	1.0		"	"	,,	,,	"
Methylene chloride	ND	1.0	"	"	"	,,	"	"
Naphthalene	ND	1.0	"					
n-Propylbenzene	3.5	1.0	"	"	"	"	"	"
Styrene	ND	1.0		"		"		
1,1,2,2-Tetrachloroethane	ND	1.0	"		"		"	"
,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Γrichlorofluoromethane	ND	1.0	"	"	"	"	"	"
,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
n,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Γert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

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.





PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

MW-1 T140237-01(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar La	aboratori	es, Inc.					
Volatile Organic Compounds	by EPA Method 8	3260B								
Tert-butyl alcohol	ND		10	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND		2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		·	111 %	83.5-119		"	"	"	"	·
Surrogate: Dibromofluoromethane			101 %	81-136		"	"	"	"	
Surrogate: Toluene-d8			98.1 %	88.8	-117	"	"	"	"	



Reported:

02/13/14 14:42



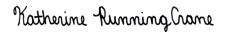
PSI -- Oakland Project: Tristar 4703 Tidewater Ave Ste B Project Number: 575-102-9

Oakland CA, 94601 Project Manager: Brand Burfield

MW-2 T140237-02(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar La	aboratori	es, Inc.					
Extractable Petroleum Hydroc	earbons by 8015C									
C6-C12 (GRO)	ND	0.013	0.50	mg/l	1	4021009	02/10/14	02/11/14	EPA 8015C	
C13-C28 (DRO)	ND	0.016	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.013	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl			66.0 %	65-1	35	"	"	"	"	
Volatile Organic Compounds b	oy EPA Method 82	60B								
Bromobenzene	ND		1.0	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
Bromochloromethane	ND		1.0	"	"	"	"	"	"	
Bromodichloromethane	ND		1.0	"	"	"	"	"	"	
Bromoform	ND		1.0	"	"	"	"	"	"	
Bromomethane	ND		1.0	"	"	"	"	"	"	
n-Butylbenzene	ND		1.0	"	"	"	"	"	"	
ec-Butylbenzene	ND		1.0	"	"	"	"	"	"	
ert-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	"	"	"	"	"	"	
,2-Dibromo-3-chloropropane	ND		5.0	"	"	"	"	"	"	
,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"	
Dibromomethane	ND		1.0	"	"	"	"	"	"	
,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
,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	"	"	"	"	"	n	

SunStar Laboratories, Inc.





Reported:

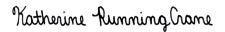
PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste B Project Number: 575-102-9 Oakland CA, 94601 Project Manager: Brand Burfield 02/13/14 14:42

MW-2 T140237-02(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar La	<u>aboratori</u>	es, Inc.					
Volatile Organic Compounds	by EPA Method 820	60B								
rans-1,2-Dichloroethene	ND		1.0	ug/l	1	4021014	02/10/14	02/11/14	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	"	"	"	"	"	"	
rans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
sopropylbenzene	ND		1.0	"	"	"	"	"	"	
o-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	"	"	"	"	"	"	
Γrichloroethene	ND		1.0	"	"	"	"	"	"	
Γrichlorofluoromethane	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	"	"	"	"	"	"	
Γoluene	ND		0.50	"	"	"	"	"	"	
Ethylbenzene	ND		0.50	"	"	"	"	"	n .	
n,p-Xylene	ND		1.0	"	"	"	"	"	n .	
-Xylene	ND		0.50	"	"	"	"	"	n .	
Γert-amyl methyl ether	ND		2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.





PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

MW-2 T140237-02(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar La	aboratori	es, Inc.					
Volatile Organic Compounds b	y EPA Method 8	3260B								
Tert-butyl alcohol	ND		10	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND		2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	II	
Surrogate: 4-Bromofluorobenzene			115 %	83.5	-119	"	"	"	"	
Surrogate: Dibromofluoromethane			101 %	81-	136	"	"	"	"	
Surrogate: Toluene-d8			97.0 %	88.8	-117	"	"	"	"	



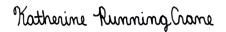
PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

MW-3 T140237-03(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydroc	arbons by 8015C									
C6-C12 (GRO)	ND	0.013	0.50	mg/l	1	4021009	02/10/14	02/11/14	EPA 8015C	
C13-C28 (DRO)	0.68	0.016	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	0.048	0.013	0.50	"	"	"	"	"	n n	
Surrogate: p-Terphenyl			66.0 %	65-	135	"	"	"	"	
Volatile Organic Compounds b	y EPA Method 8	260B								
Bromobenzene	ND		1.0	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
Bromochloromethane	ND		1.0	"	"	"	"	"	"	
Bromodichloromethane	ND		1.0	"	"	"	"	"	"	
Bromoform	ND		1.0	"	"	"	"	"	"	
Bromomethane	ND		1.0	"	"	"	"	"	"	
n-Butylbenzene	14		1.0	"	"	"	"	"	"	
ec-Butylbenzene	9.1		1.0	"	"	"	"	"	"	
ert-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	"	"	"	"	"	"	
-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
Dibromochloromethane	ND		1.0	"	"	"	"	"	"	
,2-Dibromo-3-chloropropane	ND		5.0	"	"	"	"	"	"	
,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"	
Dibromomethane	ND		1.0	"	"	"	"	"	"	
,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	"	
,1-Dichloroethane	ND		1.0	"	"	"	"	"	"	
,2-Dichloroethane	ND		0.50	"	"	"	"	"	"	
,1-Dichloroethene	ND		1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND		1.0	"	"	"	"		"	

SunStar Laboratories, Inc.





PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

MW-3 T140237-03(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds	by EPA Method 8	8260B								
trans-1,2-Dichloroethene	ND		1.0	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
,3-Dichloropropane	ND		1.0	"	"	"	"	"	"	
,2-Dichloropropane	ND		1.0	"	"	"	"	"	"	
,1-Dichloropropene	ND		1.0	"	"	"	"	"	"	
is-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
rans-1,3-Dichloropropene	ND		0.50	"	"	"	"	"	"	
lexachlorobutadiene	ND		1.0	"	"	"	"	"	"	
sopropylbenzene	22		1.0	"	"	"	"	"	"	
-Isopropyltoluene	5.7		1.0	"	"	"	"	"	"	
lethylene chloride	ND		1.0	"	"	"	"	"	"	
aphthalene	ND		1.0	"	"	"	"	"	"	
-Propylbenzene	45		1.0	"	"	"	"	"	"	
tyrene	ND		1.0	"	"	"	"	"	"	
,1,2,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
1,1,2-Tetrachloroethane	ND		1.0	"	"	"	"	"	"	
etrachloroethene	ND		1.0	"	"	"	"	"	"	
,2,3-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
2,4-Trichlorobenzene	ND		1.0	"	"	"	"	"	"	
1,2-Trichloroethane	ND		1.0	"	"	"	"	"	"	
,1,1-Trichloroethane	ND		1.0	"	"	"	"	"	II .	
richloroethene	ND		1.0	"	"	"	"	"	II .	
richlorofluoromethane	ND		1.0	"	"	"	"	"	"	
,2,3-Trichloropropane	ND		1.0	"	"	"	"	"	"	
3,5-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
2,4-Trimethylbenzene	ND		1.0	"	"	"	"	"	"	
inyl chloride	ND		1.0	"	"	"	"	"	"	
enzene	ND		0.50	"	"	"	"	"	"	
oluene	ND		0.50	"	"	"	"	"	n .	
thylbenzene	1.9		0.50	"	"	"	"	"	n .	
ı,p-Xylene	4.4		1.0	"	"	"	"	"	"	

0.50

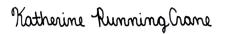
2.0

SunStar Laboratories, Inc.

Tert-amyl methyl ether

o-Xylene

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.



ND

ND



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

MW-3 T140237-03(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		<u> </u>	SunStar La	aborator	es, Inc.					
Volatile Organic Compounds	s by EPA Method 8	3260B								
Tert-butyl alcohol	ND		10	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND		2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzen	e		74.2 %	83.5	-119	"	"	"	"	S-GC
Surrogate: Dibromofluoromethan	ie		96.2 %	81-	136	"	"	"	"	
Surrogate: Toluene-d8			95.4 %	88.8	-117	"	"	"	"	



PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

MW-4 T140237-04(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydroc	arbons by 8015C									
C6-C12 (GRO)	ND	0.013	0.50	mg/l	1	4021009	02/10/14	02/11/14	EPA 8015C	
C13-C28 (DRO)	ND	0.016	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.013	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl			66.0 %	65-	135	"	"	"	"	
Volatile Organic Compounds b	y EPA Method 82	260B								
Bromobenzene	ND		1.0	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
Bromochloromethane	ND		1.0	"	"	"	"	"	"	
Bromodichloromethane	ND		1.0	"	"	"	"	"	"	
Bromoform	ND		1.0	"	"	"	"	"	"	
Bromomethane	ND		1.0	"	"	"	"	"	"	
-Butylbenzene	2.5		1.0	"	"	"	"	"	"	
ec-Butylbenzene	3.1		1.0	"	"	"	"	"	"	
ert-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	"	"	"	"	"	"	
-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
-Chlorotoluene	ND		1.0	"	"	"	"	"	"	
Dibromochloromethane	ND		1.0	"	"	"	"	"	"	
,2-Dibromo-3-chloropropane	ND		5.0	"	"	"	"	"	"	
,2-Dibromoethane (EDB)	ND		1.0	"	"	"	"	"	"	
Dibromomethane	ND		1.0	"	"	"	"	"	"	
,2-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
,3-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
,4-Dichlorobenzene	ND		1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND		0.50	"	"	"	"	"	"	
,1-Dichloroethane	ND		1.0	"	"	"	"	"	"	
,2-Dichloroethane	ND		0.50	"	"	"	"	"	ıı .	
1,1-Dichloroethene	ND		1.0	"	"	"	"	"	ıı .	
sis-1,2-Dichloroethene	ND		1.0	,,	"	"	,,	"	"	

SunStar Laboratories, Inc.





Analyte

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

PSI -- Oakland Project: Tristar

Result

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

Reporting

Limit

MDL

MW-4 T140237-04(Water)

Units

Dilution

Batch

		SunStar La	boratorie	es, Inc.				
Volatile Organic Compounds l	by EPA Method 8260B							
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	2.2	1.0	"	"	"	"	"	n .
p-Isopropyltoluene	1.6	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	4.1	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	"	"	"	"	"	n .
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	11
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	11
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"

0.50

1.0

0.50

2.0

SunStar Laboratories, Inc.

Ethylbenzene

Tert-amyl methyl ether

m,p-Xylene

o-Xylene

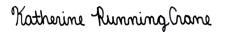
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Prepared

Analyzed

Method

Notes



ND

ND

ND

ND



Reported:

02/13/14 14:42

PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste B Project Number: 575-102-9
Oakland CA, 94601 Project Manager: Brand Burfield

MW-4 T140237-04(Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			SunStar La	aborator	ies, Inc.					
Volatile Organic Compound	s by EPA Method 826	60B								
Tert-butyl alcohol	ND		10	ug/l	1	4021014	02/10/14	02/11/14	EPA 8260B	
Di-isopropyl ether	ND		2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND		2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.0	"	"	"	"	"	"	

83.5-119

81-136

88.8-117

99.8 %

95.5 %

97.4 %

 $Surrogate: 4\hbox{-}Bromofluor obenzene$

Surrogate: Dibromofluoromethane

Surrogate: Toluene-d8





PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Oakland CA, 94601Project Manager: Brand Burfield

Reported: 02/13/14 14:42

RPD

%REC

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

Spike

Source

Reporting

Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4021009 - EPA 3510C GC											
Blank (4021009-BLK1)					Prepared:	02/10/14	Analyzed	1: 02/11/14			
Surrogate: p-Terphenyl	2.86			mg/l	4.00		71.4	65-135			
C13-C28 (DRO)	ND	0.016	0.50	"							
C29-C40 (MORO)	ND	0.013	0.50	"							
LCS (4021009-BS1)					Prepared:	02/10/14	Analyzed	1: 02/11/14			
Surrogate: p-Terphenyl	2.64			mg/l	4.00		66.0	65-135			
C13-C28 (DRO)	18.2	0.016	0.50	"	20.0		91.2	75-125			
Matrix Spike (4021009-MS1)		Source:	T140234-	11RE	Prepared:	02/10/14	Analyzed	1: 02/11/14			
Surrogate: p-Terphenyl	2.64			mg/l	4.00		66.0	65-135			
C13-C28 (DRO)	17.5	0.016	0.50	"	20.0	ND	87.3	75-125			
Matrix Spike Dup (4021009-MSD1)		Source:	T140234-	11RE	Prepared:	02/10/14	Analyzed	d: 02/11/14			
Surrogate: p-Terphenyl	2.65			mg/l	4.00		66.2	65-135			
C13-C28 (DRO)	17.3	0.016	0.50	"	20.0	ND	86.5	75-125	0.900	20	





PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

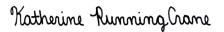
Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

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

Batch 4021014 - EPA 5030 GCMS

Blank (4021014-BLK1)				Prepared: 02/	10/14 Analyze	d: 02/11/14	
Surrogate: 4-Bromofluorobenzene	8.00		ug/l	8.00	100	83.5-119	
Surrogate: Dibromofluoromethane	6.62		"	8.00	82.8	81-136	
Surrogate: Toluene-d8	7.87		"	8.00	98.4	88.8-117	
Bromobenzene	ND	1.0	"				
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	5.0	"				
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	"				

SunStar Laboratories, Inc.







PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

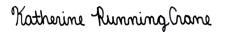
Volatile Organic Compounds by EPA Method 8260B - Quality Control SunStar Laboratories, Inc.

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

Datala	4021014.	EDA	5020	COME
Katch	4021014.	. н:РД	50130	

Blank (4021014-BLK1)				Prepared: 02/10/14 Analyzed: 02/11/14
1,2-Dichloroethane	ND	0.50	ug/l	
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	"	
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	"	

SunStar Laboratories, Inc.





RPD

Limit

Notes



Analyte

PSI -- Oakland Project: Tristar

Result

4703 Tidewater Ave Ste BProject Number: 575-102-9Reported:Oakland CA, 94601Project Manager: Brand Burfield02/13/14 14:42

Reporting

Limit

MDL

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

Units

Spike

Level

Source

Result

%REC

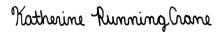
%REC

Limits

RPD

Allaryte	Result	MDL LIIIII	Units	Level	Kesuit	70KEC	LIIIIIIS	KPD	LIIIII	Notes
Batch 4021014 - EPA 5030 GCMS	S									
Blank (4021014-BLK1)				Prepared:	02/10/14	Analyze	d: 02/11/14			
1,3,5-Trimethylbenzene	ND	1.0	ug/l							
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	"							
LCS (4021014-BS1)				Prepared:	02/10/14	Analyze	d: 02/11/14			
Surrogate: 4-Bromofluorobenzene	8.23		ug/l	8.00		103	83.5-119			
Surrogate: Dibromofluoromethane	7.75		"	8.00		96.9	81-136			
Surrogate: Toluene-d8	8.13		"	8.00		102	88.8-117			
Trichloroethene	19.4	1.0	"	20.0		97.2	75-125			
Matrix Spike (4021014-MS1)		Source: T140238	-01	Prepared:	02/10/14	Analyze	d: 02/11/14			
Surrogate: 4-Bromofluorobenzene	9.22		ug/l	8.00		115	83.5-119			
Surrogate: Dibromofluoromethane	8.02		"	8.00		100	81-136			
Surrogate: Toluene-d8	7.99		"	8.00		99.9	88.8-117			
Trichloroethene	20.8	1.0	"	20.0	0.780	100	75-125			
Matrix Spike Dup (4021014-MSD1)		Source: T140238	-01	Prepared:	02/10/14	Analyze	d: 02/11/14			
Surrogate: 4-Bromofluorobenzene	8.95		ug/l	8.00		112	83.5-119			
Surrogate: Dibromofluoromethane	7.63		"	8.00		95.4	81-136			
Surrogate: Toluene-d8	7.59		"	8.00		94.9	88.8-117			
CunCton Laboratorias Inc			TI	1, , ,1,		1 , ,1	7 7	7 .	1	.1 1 .

SunStar Laboratories, Inc.





Reported:

02/13/14 14:42

PSI -- Oakland Project: Tristar

4703 Tidewater Ave Ste B
Project Number: 575-102-9
Oakland CA, 94601
Project Manager: Brand Burfield

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

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

Batch 4021014 - EPA 5030 GCMS

Matrix Spike Dup (4021014-MSD1)		Source: T140238-01	Prepared:	02/10/14	Analyzed	1: 02/11/14			
Trichloroethene	20.0	1.0 ug/l	20.0	0.780	95.9	75-125	3.98	20	



PSI -- Oakland Project: Tristar
4703 Tidewater Ave Ste B Project Number: 575-102-9 Reported:
Oakland CA, 94601 Project Manager: Brand Burfield 02/13/14 14:42

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



Chain of Custody Record

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

Client: PS Address: F103 IDEMTE Phone: 570 434-9700 Project Manager: BRA)	Fax: 514	<i>A</i> 140. СА) 434 -	9460]	- - -		Col	lecto	or: /	ne: <u>7</u> 2 vis e F140		lor1	912 7449 	^	_Clier _EDF	nt Project #:#:	<u>-9</u>
Sample ID MW-1 MW-2 MW-3 MW-4	Date Sampled	Time 11:35 10:45 12:40 12:15	Sample Type WATER	Container Type Vor	8260			8021 BTEX	8015M (gasoline)	XXX 8015M (diesel)	6010/7000 Title 22 N				E C C C C C C C C C C C C C C C C C C C	Comments/Preservative	Total # of containers
Relinquished by: (signature) Relinquished by: (signature)	Date / T	17:00	G150#	y: (signature) 107416 y (signature)		1 21	te / T	117:	B	Chain	T of Cu:	otal #	of conseals `ntact?`	tainers	/6 Y	CREATE EDF RL= 0.05 mg/L FOI PL=0.10mg/L FUR	CTPA-(
Relinquished by: (signature) Sample disposal Instructions: D	Date / T			y: (signature)			te / T	ime		Rece			6	on/cold	5.2	PL=0.10mg L FUR	1PA-M



SAMPLE RECEIVING REVIEW SHEET

BATCH # <u>7140237</u>	
Client Name: PSI - DAKLANO	Project: Tristar
Received by: Brian	Date/Time Received: 2/10/14 9:00
Delivered by: Client SunStar Courier GSO	FedEx Other
Total number of coolers received 1 Temp c	riteria = 6° C > 0° C (no <u>frozen</u> containers)
Temperature: cooler #1 $\underline{\textbf{5.4}}$ °C +/- the CF (-0.2°C) = $\underline{\textbf{5}}$	°C corrected temperature
cooler #2°C +/- the CF (- 0.2°C) =	°C corrected temperature
cooler #3°C +/- the CF (- 0.2°C) =	°C corrected temperature
Samples outside temp. but received on ice, w/in 6 hours of fire	nal sampling. 🗷 Yes 🗆 No* 🔲 N/A
Custody Seals Intact on Cooler/Sample	Yes No* No/A
Sample Containers Intact	Yes No*
Sample labels match COC ID's	¥Yes □No*
Total number of containers received match COC	Yes No*
Proper containers received for analyses requested on COC	¥Yes □No*
Proper preservative indicated on COC/containers for analyses	requested Yes No* N/A
Complete shipment received in good condition with correct to preservatives and within method specified holding times.	Yes No*
* Complete Non-Conformance Receiving Sheet if checked C	ooler/Sample Review - Initials and date 8c 2/10/14
Comments:	