#### VOLVO CONSTRUCTION EQUIPMENT



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#### 5:03 pm, Jun 28, 2012

June 13, 2012

Alameda County Environmental Health

Mr. Mark Detterman Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

Subject:

1<sup>st</sup> Semi-Annual 2012 Groundwater Monitoring Report Former Ingersoll-Rand Facility 1944 Marina Boulevard, San Leandro, California Case Number RO0000017 GeoTracker Global ID T0600100732 PSI Project No. 575-414-1

Dear Mr. Detterman:

Volvo Construction Equipment North America, LLC 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 Professional Service Industries at 510-434-9200 (x11).

Sincerely,

Lisa C. Slocum Manager, North American Trademarks Legal Department Volvo Construction Equipment North America

cc: Mr. Frank Poss, PSI

www.volvo.com



## 1<sup>st</sup> SEMI-ANNUAL 2012 GROUNDWATER MONITORING REPORT

FORMER INGERSOLL-RAND FACILITY 1944 MARINA BOULEVARD SAN LEANDRO, CALIFORNIA

#### 1<sup>st</sup> SEMI-ANNUAL 2012 GROUNDWATER MONITORING REPORT

#### FORMER INGERSOLL-RAND FACILITY 1944 MARINA BOULEVARD SAN LEANDRO, CALIFORNIA

prepared for

#### Volvo Construction Equipment North America, LLC One Volvo Drive Asheville, North Carolina 28803

prepared by

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

> June 11, 2012 575-414-1



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#### STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

The information provided in this Groundwater Monitoring Report prepared by PSI, Project Number 575-414, is intended exclusively for Volvo Construction Equipment North America, LLC (Volvo) for the evaluation of groundwater contamination as it pertains to the subject site in San Leandro, 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, hydrologists, 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 Volvo 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 8.71-acre parcel located near the intersection of Marina Boulevard and Merced Street in San Leandro, California (see Figure 1 – Site Location Map). The Subject Property address is 1944 Marina Boulevard, San Leandro, California and is also identified as Alameda County Assessor Parcel Number 77A-700-19. The site is currently used by Volvo Construction Equipment & Services.

The property is listed as a Leaking Underground Storage Tank (LUST) site due to historical release of gasoline to the subsurface associated with underground storage tanks (USTs) formerly operated by Ingersoll-Rand, prior to being purchased by Volvo. The LUST case is managed by the Alameda County Health Care Services Agency, Environmental Health Department (ACEH) under Case Number #RO0000017.

In March 2012, the ACEH issued a letter which referenced a July 2008 ACEH letter that requested additional work to be completed at the subject property. The 2008 letter identified five items that needed to be addressed at the Subject Property;

- 1. Well Redevelopment and Monitoring Well Sampling
- 2. Groundwater Sampling and Analysis
- 3. Critical Area Evaluation
- 4. Project Approach and Investigation Reporting Site Conceptual Model
- 5. GeoTracker Compliance

PSI was contracted by Volvo to complete the above listed items. This 1<sup>st</sup> Semi-Annual 2012 Groundwater Monitoring Report details the work completed to address items 1 and 2.



#### 2.0 GROUNDWATER MONITORING ACTIVITIES

#### 2.1 MONITORING WELL REDEVELOPMENT

On May 4, 2012, PSI mobilized to the site to evaluate the current condition of the on-site monitoring points and determine whether groundwater was present, as requested by the ACEH. PSI identified six monitoring points (MW-1 through MW-4, VW-6 and VW-8) that currently had groundwater and were able to be accessed. PSI repaired the well box at MW-4, as well as added or replaced caps and locks to the six wells identified.

On May 9 and 11, 2012, all six monitoring wells (MW-1 through MW-4, VW-6 and VW-8) were redeveloped via the surge-block method. The 4-inch diameter surge block, connected to a series of 5-foot long, 1½-inch diameter PVC pipes, was lowered to the bottom of the well and then raised to above the groundwater level repeatedly for a duration of five to ten minutes. This action (surge) forced water to move in and out of the well screen and filter pack in order to help remove any fine soils (silt or clay) that were caught in the filter pack and to improve groundwater flow into the monitoring well.

After the surge was completed, a submersible pump was lowered into the well and groundwater was purged (between 8 and 22 gallons per well) until relatively clear. Purging the water from the well served the purpose of removing fine sediment from the well and creating a cone of depression 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.

#### 2.2 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT

The locations and top-of-casing (TOC) elevations for MW-1 through MW-4, VW-6 and VW-8 were surveyed in May 2012 to NAD 83 survey datum by Morrow Surveying of West Sacramento, California; a State of California licensed Surveyor. A copy of the survey map is included in Appendix A.

On May 17, 2012, prior to sampling, the depth to groundwater in each monitoring well was measured in accordance with the field procedures outlined in Section 3.3 using an electric water level indicator. Water levels are read from the TOC of each monitoring well 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.

The depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 1. Groundwater surface contours representing May 17, 2012, water levels beneath the site are shown on Figure 2. Based on the water level measurements obtained, the groundwater flow direction at the subject site is generally toward the southwest with a hydraulic gradient of approximately 0.005. The groundwater flow direction is in general agreement with previous sampling episodes at the site.



#### 2.3 GROUNDWATER SAMPLING

On May 17, 2012, groundwater samples were collected from monitoring wells MW-1 through MW-4, VW-6, and VW-8 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 submersible pump.
- 4. Water samples were collected 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 B.

#### 2.4 LABORATORY ANALYSIS, RESULTS, AND DISCUSSION

Six 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
- Volatile Organic Compounds (VOCs) including fuel oxygenates using EPA Method 8260B



The following are the results of the groundwater analysis:

- TPH-G was detected above the laboratory reporting limit of 50 micrograms per liter (μg/L) in the groundwater samples collected from MW-3 (900 μg/L), MW-4 (5,200 μg/L), VW-6 (76 μg/L), and VW-8 (96 μg/L).
- Various VOCs associated with petroleum hydrocarbon contamination were detected above their respective laboratory reporting limit in the groundwater samples collected from MW-3, MW-4, VW-6 and VW-8. The VOCs detected are common constituents of gasoline.
- BTEX constituents were detected only in the groundwater sample from MW-4;
  - Ethylbenzene at 120 μg/L
  - o Benzene at 30 μg/L
  - Total Xylenes at 17 μg/L
- TPH-G and VOCs were not detected in MW-1 or 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 Commercial Land Use where groundwater is a drinking water resource. The following constituents were detected at greater than their respective ESL;

- TPH-G (ESL of 100 µg/L) in MW-3 and MW-4
- Benzene (ESL of 1 µg/L) in MW-4
- Ethylbenzene (ESL of 30 µg/L) in MW-4
- Naphthalene (ESL of 17 μg/L) in MW-4

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



#### 3.0 CONCLUSIONS AND RECOMMENDATIONS

PSI conducted well redevelopment on May 9 and 11, 2012, and groundwater monitoring activities on May 17, 2012. The results of the monitoring event are summarized below.

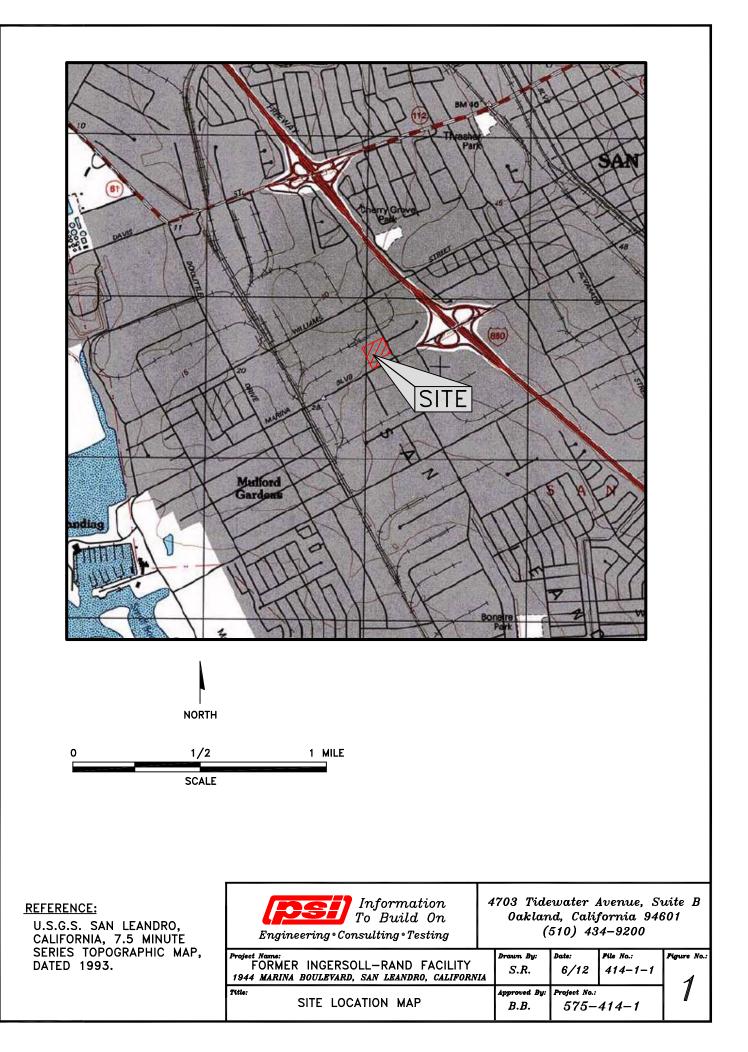
- Monitoring wells MW-1 through MW-4 as well as VW-6 and VW-8 were redeveloped. ٠
- A new survey of the wells was performed.
- Based on our field measurements, groundwater at the site flows generally toward the southwest under a hydraulic gradient of 0.005.
- TPH-G and VOCs were detected in the groundwater samples from monitoring wells MW-3, MW-4, VW-6 and VW-8.
- All of the groundwater analytical results were below their respective RWQCB ESLs with the exception of the samples from MW-3 which had TPH-G above its respective ESL, and MW-4, which had TPH-G, benzene, ethylbenzene, and naphthalene above their respective ESL.

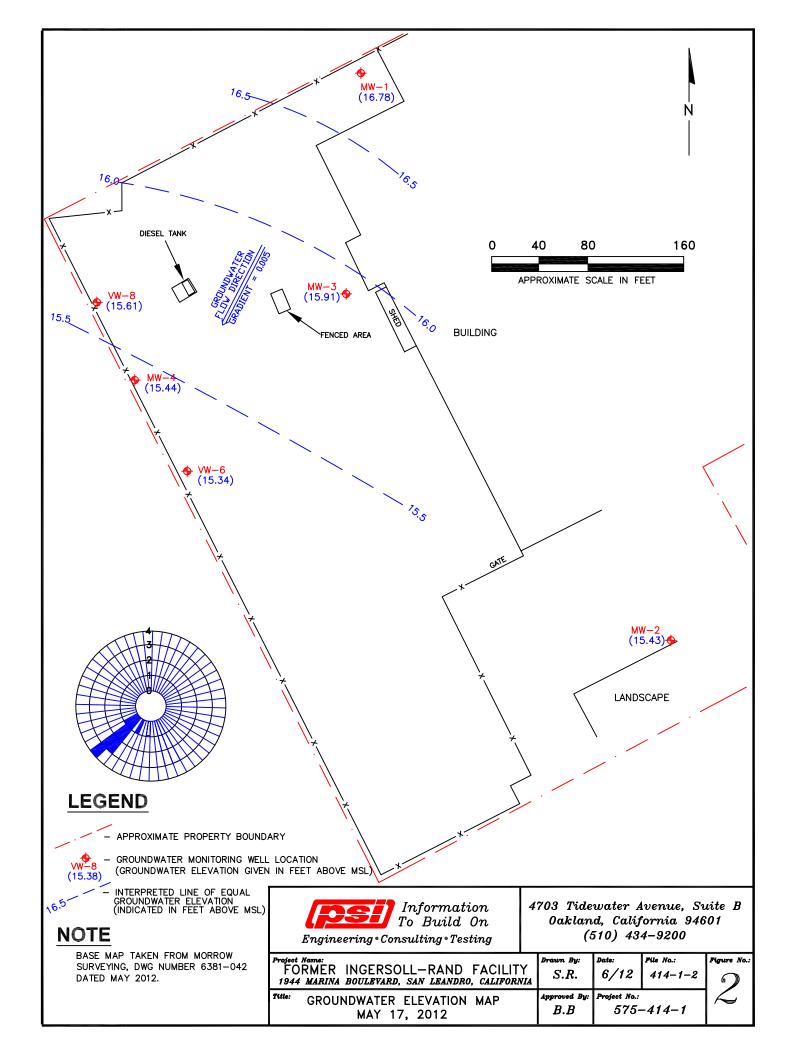
PSI is in the process of completing an SCM for the site, which will incorporate these results and identify any further potential need for work at the subject property.





**FIGURES** 





TABLES



## TABLE 1

#### GROUNDWATER ELEVATIONS Former Ingersoll-Rand Facility 1944 Marina Boulevard, San Leandro, California

Well Number	TOC Elevation (ft msl)	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft msl)
MW-1	27.82	5/17/2012	11.04	16.78
MW-2	27.51	5/17/2012	12.08	15.43
MW-3	29.63	5/17/2012	13.72	15.91
MW-4	32.42	5/17/2012	16.98	15.44
VW-6	34.43	5/17/2012	19.09	15.34
VW-8	36.38	5/17/2012	20.77	15.61

#### Notes:

ft msl = feet with respect to mean sea level

#### TABLE 2

#### SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Former Ingersoll-Rand Facility

1944 Marina Boulevard, San Leandro, California

Sample Number	Date	TPH-G	Benzene	n-Butyl- benzene	sec-Butyl- benzene	lsopropyl- benzene	Ethyl- benzene	p- Isopropyl- toluene	Naph- thalene	n-Propyl- benzene	Trichloroet hene	1,2,4- Trimethyl- benzene	1,3,5- Trimethyl- benzene	Total Xylenes
MW-1	5/17/12	<50	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.5
MW-2	5/17/12	<50	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.5
MW-3	5/17/12	900	<0.5	17.0	4.5	1.9	<0.5	<1.0	<1.0	8.5	<1.0	<1.0	<1.0	<1.5
MW-4	5/17/12	5,200	30	19	7.6	29	120	1.9	27	76	<1.0	30	4.7	17
VW-6	5/17/12	76	<0.5	20.8	<1.0	<1.0	<0.5	<1.0	2.5	<1.0	1.2	<1.0	<1.0	<1.5
VW-8	5/17/12	96	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.5

#### Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

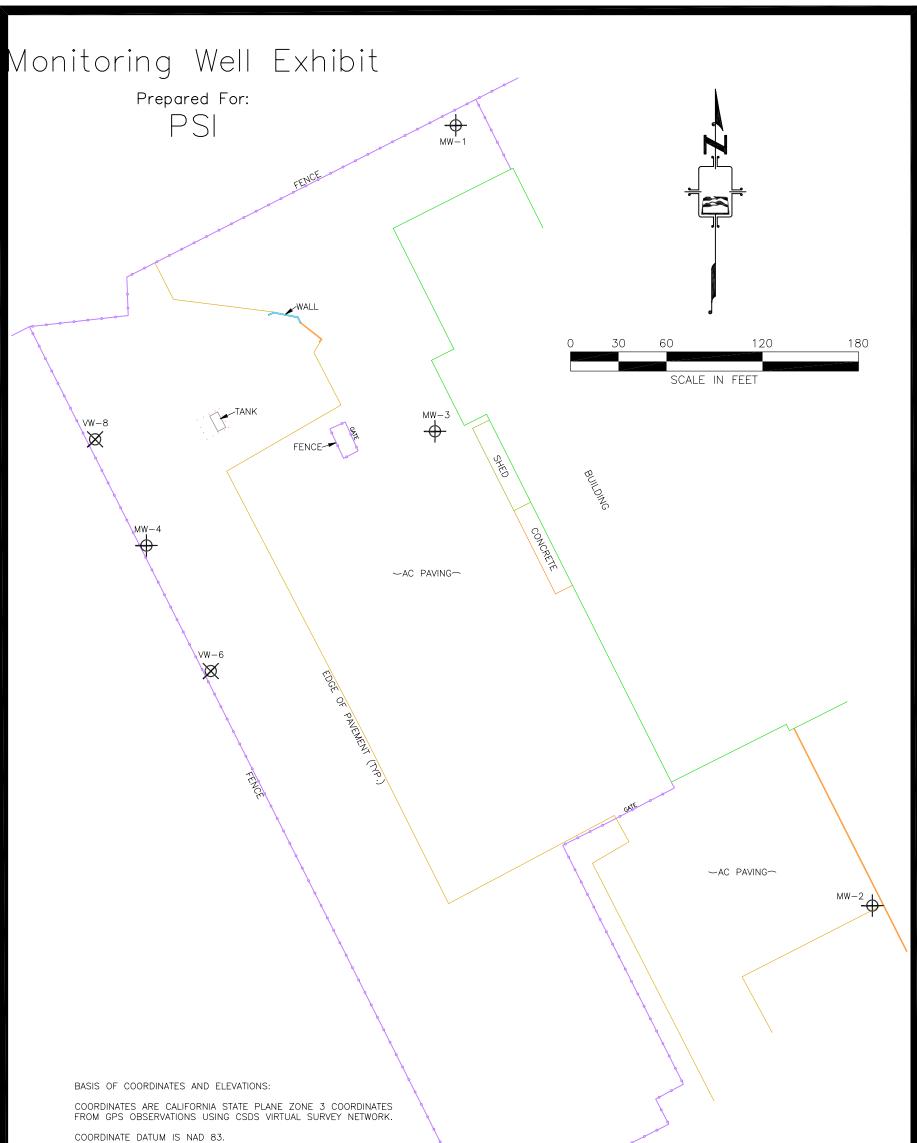
The units for all presented values are  $\mu g/L = Micrograms$  per liter

All VOCs not listed were below their laboratory reporting limit.

# APPENDIX A

SURVEY MAP





REFERENCE GEOID IS GEOID03.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.



	MW-2 MW-3 MW-4 VW-6	2084748.7 2085045.1 2084973.8 2084895.3	6077923.9 6077650.6 6077470.2 6077510.4	37.7084546 37.7092551 37.7090503 37.7088368	-122.1723172 -122.1732802 -122.1738991	27.51 29.63 32.42 34.43	28.38 30.58 32.80	32.0	
RIv	VW-8	2085040.1	6077438.1	37.7092309	-122.1740142	36.38		34.3	Date: MAY, 2012 Field: 5-23-12 DB

Volvo 1944 Marina Blvd. San Leandro Alameda County California



West Sacramento California 95691 (916) 372-8124 mark@morrowsurveying.com Scale: 1"=60' Revised: Field Book: MW-55 Dwg. No.

# APPENDIX B

GROUNDWATER PURGE LOGS AND WATER LEVEL DATA



		FLU	ID MEAS	UREMEN <sup>-</sup>	FIELD D	ΑΤΑ		
							SHEET: 1 OF	1
DATE:	5/17/2012	PROJECT NAME:	Volvo - San Lea	andro		PROJECT NO: 57	75-414-1	
WATER LEVEL N	MEASUREMENT INS	TRUMENT:	Solinst			SERIAL NO:	12080	
PRODUCT DETE	CTION INSTRUMEN	IT:				SERIAL NO:		
EQUIP. DECON:		WASH 🗌 DIST	DEION 1 RINSE		ANALYTE	FREE FINAL RINSE	TAP WATER F	INAL RINSE
🗌 TAP WA	ATER WASH	LIQUINOX WASH		ON 2 RINSE	OTHER SOLVENT	DIST/DEION	FINAL RINSE	AIR DRY
WELL	GROUND	TOP OF	DEPTH TO	DEPTH TO	WELL	PRODUCT	WATER	ACTUAL
NUMBER	SURFACE ELEVATION	CASING ELEVATION	PRODUCT BELOW TOC	WATER BELOW TOC	DEPTH BELOW TOC	THICKNESS	TABLE ELEVATION	TIME
MW-1		27.82	BELOW TOO	11.04	19.03			10:20
MW-2	]	27.51		12.08	19.95			10:24
MW-3		29.63		13.72	19.04			10:31
MW-4		32.42		17.35	19.16			10:41
VW-6		34.43		19.42	25,51			10:36
VW-8		36.28		21.00	25.46			10:45
					•			
			-			-		
		8-10:08						
4 FW	DAVINS	UN SITE						
ONE	DRUM HI	AS 1/3	the l					
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	0	-				-		
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AFTER		NTER MONI	<u> </u>	no before		RNZYING.	WESHAVE	
4" OF	PVC ON V	w-6, 4.5		CONM			OF PVL	ON VWS.
	AVED PUC	, ÷			JOWARER .	MOVITURIN	6 OATA	BUTIS
stown	A VAL	10 IN NEW	) writey 1	ng oata.				

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

PREPARED BY: STEPHEN RAMOS

WELL NO:         Mud-1           DATE:         5/17/2012         PROJECT NAME: Volvo - San Leandro         PROJECT NO:         575-414-1           MEATHER CONDITIONS:         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
WEATHER CONDITIONS:         WELL DIAMETER (IN.)       1       2       4       6       OTHER         SAMPLE TYPE:       GROUNDWATER       WASTEWATER       SURFACE WATER       OTHER         WELL DEPTH (TOC)       1       2       4       6       OTHER         WELL DEPTH (TOC)       1       2       7       DEPTH TO WATER BEFORE PURGING (TOC)       1       0         SAMPLE TYPE:       GROUNDWATER       WASTEWATER       SURFACE WATER       OTHER       OTHER         WELL DEPTH (TOC)       1       0.3       FT.       DEPTH TO WATER BEFORE PURGING (TOC)       1       0         LENGTH OF WATER       K       FT.       CALCULATED ONE WELL VOLUME':       S. 19       GAL         PURGING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         SAMPLING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         EQUIP. DECON.       TAP WATER WASH       DIST/DEION 1 RINSE       OTHER SOLVENT       DIST/DEION FINAL RINSE         ALCONOX WASH       DIST/DEION 2 RINSE       TAP WATER FINAL RINSE       AIR DRY         CONTAINER PRESERVATION:       LAB PRESERVED       FIELD PRESERVED       MATER       APPEAR       CUPDENT ODOR, COLOR, PID)
WELL DIAMETER (IN.)       1       2       4       6       OTHER         SAMPLE TYPE:       GROUNDWATER       WASTEWATER       SURFACE WATER       OTHER         WELL DEPTH (TOC)       1       0.3       FT.       DEPTH TO WATER BEFORE PURGING (TOC 11. 04       FT.         LENGTH OF WATER $&$ FT.       CALCULATED ONE WELL VOLUME <sup>1</sup> : $&$ 19       GAL.         PURGING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         SAMPLING DEVICE:       Pump       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       Myron L Ultrameter, Serial # 602155         ACTUAL       OUMUL       TEMP       SPECIFIC       PH       OEPHH       OP       WATER       REMARKS         (WITH PURGED       SS       10.5       SS       10.4       TU       ODOR, COLOR, PID)         (MIN)       YOLUME       TEMP       <
SAMPLE TYPE:       GROUNDWATER       WASTEWATER       SURFACE WATER       OTHER         WELL DEPTH (TOC)       19.03       FT.       DEPTH TO WATER BEFORE PURGING (TOC)       11.04       FT.         LENGTH OF WATER        FT.       DEPTH TO WATER BEFORE PURGING (TOC)       11.04       FT.         LENGTH OF WATER        FT.       CALCULATED ONE WELL VOLUME':       S. 19       GAL         PURGING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         SAMPLING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         EQUIP. DECON.       TAP WATER WASH       ISOPROPANOL       ANALYTE FREE FINAL RINSE         EQUIP. DECON.       TAP WATER WASH       ISOPROPANOL       ANALYTE FREE FINAL RINSE         EQUIP. DECON.       TAP WATER WASH       ISOPROPANOL       ANALYTE FREE FINAL RINSE         EQUIP. DECON.       TAP WATER WASH       DIST/DEION 1 RINSE       OTHER SOLVENT       DIST/DEION FINAL RINSE         ELIQUINOX WASH       DIST/DEION 2 RINSE       TAP WATER FINAL RINSE       AIR DRY         CONTAINER PRESERVATION:       LAB PRESERVED       FIELD PRESERVED       Water ANALYZER MODEL & SERIAL NO:         WATER ANALYZER MODEL & SERIAL NO:       Myrean       Cuclear       Cuclear
WELL DEPTH (TOC) $(9.03)$ FT.       DEPTH TO WATER BEFORE PURGING (TOC $(1.04)$ FT.         LENGTH OF WATER $(7.02)$ FT.       CALCULATED ONE WELL VOLUME': $(5.19)$ GAL         PURGING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         SAMPLING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         EQUIP. DECON.       TAP WATER WASH       DISOPROPANOL       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       MATER       REMARKS         CONTAINER PRESERVATION:       LAB PRESERVED       POPH       PO//       WATER       REMARKS         (MIN)       VOLUME       TEMP       SPECIFIC       PH       PH       POPH       PO//       REMARKS         (MIN)       VOLUME       TEMP       SPECIFIC       PH       PH       POPH       POPH       POPEAR       (EVIDENT ODOR, COLOR, PID)         (1:15       INITIAL       [6.36]       9.362       6.72       3.266
LENGTH OF WATER       FT.       CALCULATED ONE WELL VOLUME':       S. 19       GAL.         PURGING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         SAMPLING DEVICE:       Pump       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:       Myron L Ultrameter, Serial # 602155         ACTUAL (MIN)       CUMUL VOLUME       TEMP       SPECIFIC CONDUCT.       PH         MATER ANALYZER MODEL & SERIAL NO:       Myron L Ultrameter, Serial # 602155         ACTUAL (MIN)       CUMUL VOLUME       TEMP       SPECIFIC CONDUCT.       PH         MATER ANALYZER MODEL & SERIAL NO:       Myron L Ultrameter, Serial # 602155         ACTUAL (MIN)       CUMUL VOLUME       SPECIFIC CONDUCT.       PH       SPECIFIC CONDUCT.       SPECIFIC STAR (6.446/5/5/4/95/16/16/16/16/17/10/16/16/16/16/16/16/16/16/16/16/16/16/16/
PURGING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         SAMPLING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         SAMPLING DEVICE:       Pump       DEDICATED       DISPOSABLE       DECONTAMINATED         EQUIP. DECON.       TAP WATER WASH       DEDICATED       DISPOSABLE       DECONTAMINATED         EQUIP. DECON.       TAP WATER WASH       DIST/DEION 1 RINSE       OTHER SOLVENT       DIST/DEION FINAL RINSE         ALCONOX WASH       DIST/DEION 2 RINSE       TAP WATER FINAL RINSE       AIR DRY         CONTAINER PRESERVATION:       LAB PRESERVED       FIELD PRESERVED         WATER ANALYZER MODEL & SERIAL NO:       Myron L Ultrameter, Serial # 602155         ACTUAL       CUMUL       TEMP       SPECIFIC         VOLUME       PG       MATER       MATER         VOLUME       PG       SAGE       OP       WATER         VOLUME       CONDUCT.
SAMPLING DEVICE:       Pump       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 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:       Myron L Ultrameter, Serial # 602155         ACTUAL       CUMUL       TEMP       SPECIFIC         VOLUME       Preserved       MATER       APPEAR       (Evident odor, color, pid)         IIINE       OS/G       S/G       S/G       S/G       S/G       S/G         IIINITIAL       16.38       0.36776       6.46       467/3       4957/166.1       TU       MODOR       ODOR
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:       Myron L Ultrameter, Serial # 602155         ACTUAL       CUMUL.       TEMP       SPECIFIC         VOLUME       PURGED       GONDUCT.       MATER         VOLUME       PURGED       SPECIFIC       PH         (GAL)       VOLUME       SPECIFIC       PH         VOLUME       PURGED       SONDUCT.       MATER         MATER       NITIAL       6.350       0.3576       6.46         VOLUME       SONDUCT.       SONDUCT.       MATER         VOLUME       DOF       SONDUCT.       SONDUCT.         VI:20       S.S       IG.25       SONDUCT.       SONDUCT.         VI:20       S.S       IG.25       SONDUCT.       SONDUCT.       MATER         VI:20       S.S       IG.25       SONDUCT.       MATER       MATER         VI:20       S.S       IG.2
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
WATER ANALYZER MODEL & SERIAL NO: $\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
11:20 5.5 16.29 0.308 0.10 1073 116.1 10 10 000327 02000 11:20 5.5 16.29 0.252 6.72 63.20% 5.46/87.3 (0 11 / 0.645 GREY 11:26 11.0 16.0 2 0.30% 0.250 6.89 44.09 425/00.1 (0 1 / 0.645 GREY 11:32 16.5 16.05 0.30% 7.02 436.2% 8.45/215 TV 11 (BROWN
11:26 11.0 16.0 Z 0.30 6.89 44.09 125 10 10 10 10 10 10 10 10 10 10 10 10 10
11.32 16.5 16.08 0.304 97.02 436.2% 805/215 The Control Contro
(1.32 10.5 16.00 0.249 1.02 430.295 11/26 TV 11 BROWN
11:37 22.0 16.20 0.30 7.08 44.3 124/17.1 TU / 11
DEPTH TO WATER AFTER PURGING (TOC) FT. SAMPLE FILTERED YES NO SIZE
SAMPLE TIME:     III H     III H       DUPLICATE     TIME:     ID#:
PREPARED BY: STEPHEN RAMOS

WELL PURGING AND SAMPLING DATA							
		WELL NO: MW-2					
DATE: 5/17/2012 PROJECT NAME: Volvo - San	Leandro	PROJECT NO: 575-414-1					
WEATHER CONDITIONS:		·					
WELL DIAMETER (IN.)	4 6	OTHER					
SAMPLE TYPE: GROUNDWATER WAS							
WELL DEPTH (TOC) (9,95 F	T. DEPTH TO WATER B	BEFORE PURGING (TOC 12.08 FT.					
LENGTH OF WATER 7.87 F	T. CALCULATED ONE	WELL VOLUME <sup>1</sup> : 5.11 GAL.					
PURGING DEVICE: Pump							
EQUIP. DECON. TAP WATER WASH							
ALCONOX WASH DIST/DEION 1 RINS		/ENT 📕 DIST/DEION FINAL RINSE FINAL RINSE 🗌 AIR DRY					
WATER ANALYZER MODEL & SERIAL NO:							
		Itrameter, Serial # 602155					
ACTUAL CUMUL. TEMP SPECIFIC pH TIME VOLUME SF CONDUCT.	TO GROUND OUT	WATER REMARKS APPEAR (EVIDENT ODOR, COLOR, PID)					
(MIN) PURGED C C (MIN) (GAL)		CL=CLEAR ·O=CLOUDY					
ms/cm	W73 044 T	TU=TURBID					
12:17 INITIAL 17.83 99.835 6.65		TU ELGINO UDON / LEAN BROWNIGH					
12:21 5.5 17.64 0.48% 8756.65	13.7 127 1924	CO IL LIGHT GRATY					
12:40 11.0 11.84 only 6.68	12-7 134/463	(0 " "					
10.31 10.0 (1.) 0.465 0.66	19.0 -4/a1	to "/ LIGHT GRONN WAY					
12:35 22 17.57 0.564 6.69	10.0 -57.3	CO " LIGHT GRAY					
	•						
	<u>├──</u>						
DEPTH TO WATER AFTER PURGING (TOC)							
		10 40 ID# MW-Z					
		IME: ID#: IME: ID#:					
	PREPARED BY: STEPHEN RAMOS						

WELL PURGING AND SAMPLING DATA							
	WELL NO: MW-3						
DATE: 5/17/2012 PROJECT NAME: Volvo - San	Leandro PROJECT NO: 575-414-1						
WEATHER CONDITIONS:							
WELL DIAMETER (IN.)	4 6 OTHER						
SAMPLE TYPE: GROUNDWATER WAS							
	T. DEPTH TO WATER BEFORE PURGING (TOC 13.72 FT.						
LENGTH OF WATER 5.32 F	T. CALCULATED ONE WELL VOLUME <sup>1</sup> : 3.46 GAL.						
SAMPLING DEVICE: Pump 🗌 DEDICATED 🗌 DISPOSABLE 🖬 DECONTAMINATED							
ALCONOX WASH DIST/DEION 1 RIN							
WATER ANALYZER MODEL & SERIAL NO:							
ACTUAL CUMUL. TEMP SPECIFIC DH	Myron L Ultrameter, Serial # 602155						
TIME VOLUME SF CONDUCT.	TO GROUND VATER REMARKS TO GROUND VATER (EVIDENT ODOR, COLOR, PID)						
(MIN) PURGED Q°C No Come (GAL) GAL	WATER     CL=CLEAR       D0 %     D0/02P       CO=CLOUDY       TU=TURBID						
13.74 INITIAL 1921 1421							
	24.0 197/-73 CO NO 6002/grey						
10.100,000,000,000,000	17.60 1.53/-103 (.L. NO DOR/CLEAR 7 23.6 2.44/-122 (.)						
13.50 12 18.94 .561 .477 6.97	26 2.32-150 CO NO ODOR GRAY 25.1 2.20/-150 CO NO ODOR GRAV						
	ES. FISO CO INVOLUEI GENY						
•							
DEPTH TO WATER AFTER PURGING (TOC)	FT. SAMPLE FILTERED 🗌 YES 📕 NO SIZE						
NOTES:	SAMPLE TIME: 14:00 ID# MW-3						
	DUPLICATE TIME: ID#:						
	EQUIP. BLANK: TIME: ID#:						
	PREPARED BY: STEPHEN RAMOS						

WELL PURGING AND SAMPLING DATA							
	WELL NO: NW-4						
DATE: 5/17/2012 PROJECT NAME: Volvo - San	Leandro PROJECT NO: 575-414-1						
WEATHER CONDITIONS:							
WELL DIAMETER (IN.)	4 6 OTHER						
SAMPLE TYPE: GROUNDWATER 🗌 WAS	STEWATER SURFACE WATER OTHER						
WELL DEPTH (TOC) 19.16 F	T. DEPTH TO WATER BEFORE PURGING (TOC 17.35 FT						
LENGTH OF WATER 1.8 F	T. CALCULATED ONE WELL VOLUME <sup>1</sup> : 1.8 GAL						
PURGING DEVICE: Pump							
SAMPLING DEVICE: Pump							
ALCONOX WASH DIST/DEION 1 RIN:							
WATER ANALYZER MODEL & SERIAL NO:							
	Myron L Ultrameter, Serial # 602155						
ACTUAL CUMUL. TEMP SPECIFIC PH TIME VOLUME SF CONDUCT.	TO GROUND APPEAR (EVIDENT ODOR, COLOR, PID)						
(MIN) PURGED Q°C MS/cm <sup>c</sup> (GAL) MS/cm <sup>c</sup>	WATER PD/ CL=CLEAR CO=CLOUDY						
	SI.Y 4.35/14 CL NO OROR WEAR						
13.22 2 17.55 0.604 6.48	23.7 2.22-181 (D) Subit the / GARY						
15.25 4 17.52 0.755 47 6.55	23.2 227/2 · / CLEAR						
13:28 6 17.5 0759 6.54	24.5 259/25 CL " / "						
15:31 8 17.70 0.783/ 6.52	23.7 -187.2 4- 4 / 4						
DEPTH TO WATER AFTER PURGING (TOC)	FT. SAMPLE FILTERED I YES NO SIZE						
NOTES:	SAMPLE TIME: 15:35 ID# MW-4						
	DUPLICATE TIME: ID#:						
	EQUIP. BLANK: TIME: 1D#:						
PREPARED BY: STEPHEN RAMOS							

WELL PURGING AND SAMPLING DATA							
	WELL NO: VW - 6						
DATE: 5/17/2012 PROJECT NAME: Volvo - San Le	eandro PROJECT NO: 575-414-1						
WEATHER CONDITIONS:							
WELL DIAMETER (IN.)	4 6 OTHER						
SAMPLE TYPE: GROUNDWATER 🗌 WAST	EWATER SURFACE WATER OTHER						
WELL DEPTH (TOC) 25.51 FT.	DEPTH TO WATER BEFORE PURGING (TOC 19.42 FT.						
LENGTH OF WATER 6.09 FT.	CALCULATED ONE WELL VOLUME <sup>1</sup> : 3,96 GAL.						
PURGING DEVICE: Pump [	PURGING DEVICE: Pump						
ALCONOX WASH DIST/DEION 1 RINSE							
CONTAINER PRESERVATION: LAB PRESERVED							
WATER ANALYZER MODEL & SERIAL NO:	Myron L Ultrameter, Serial # 602155						
ACTUAL CUMUL. TEMP SPECIFIC PH TIME VOLUME O'F CONDUCT. (MIN) PURGED (GAL) CONDUCT.	DEPTH WATER REMARKS TO GYOUND APPEAR (EVIDENT ODOR, COLOR, PID) WATER CO=CLOUDY TU=TURBID						
14:25 INITIAL 17.78 .888/,772 (0.74	28 2:57/455 TU NO ODR/ DROWN						
14:30 4 17.75 200/706 6.71	33.73.04/43.4 CO NOODOR / ARAY						
14:35 8 7.77 003,762 4.69	27.6 2484 TU NO ODD/ OPDV						
14:40 12 17.8 0841/ TTZ 6.67	23.3 2.05/134 TU NO 0007/012A1/						
14:45 12 17.70 0.944 0.77 6.72	16.2 1.50 TU NO ODOR JARAY						
	-9						
DEPTH TO WATER AFTER PURGING (TOC)	FT. SAMPLE FILTERED  YES NO SIZE						
	SAMPLE TIME: 14 :46 ID# VW-6						
	PREPARED BY: STEPHEN RAMOS						

WELL PURG	NG AND SAMPLING DATA				
	WELL NO: VW-8				
DATE: 5/17/2012 PROJECT NAME: Volvo - San	Leandro PROJECT NO: 575-414-1				
WEATHER CONDITIONS:					
WELL DIAMETER (IN.)	4 6 OTHER				
SAMPLE TYPE: GROUNDWATER					
	T. DEPTH TO WATER BEFORE PURGING (TOC 2 . 00 FT.				
LENGTH OF WATER 4,46 F	T. CALCULATED ONE WELL VOLUME <sup>1</sup> : 2,9 GAL.				
SAMPLING DEVICE: Pump					
EQUIP. DECON. TAP WATER WASH					
ALCONOX WASH DIST/DEION 1 RIN					
WATER ANALYZER MODEL & SERIAL NO:					
	Myron L Ultrameter, Serial # 602155				
ACTUAL CUMUL. TEMP SPECIFIC pH TIME VOLUME SF CONDUCT.	DEPTH WATER REMARKS TO GROUND APPEAR (EVIDENT ODOR, COLOR, PID)				
mylan					
15-58 INITIAL 17.87 0.45 6.632					
16:02 3 17:00 0.56 6.31	70.3 6.51/10.2 CO " ( CUEARS				
16:06 b 17.56 0.504 6.33	65.6 6.15/0.9 CL 11 / 11				
16:10 9 1757 0.538 6.35	62.6 6.04/3.7 CL 11/11				
16.14 12 7.66 0.545 6.38	57.8 5.27/ay CL 11 ( 12				
DEPTH TO WATER AFTER PURGING (TOC)					
NOTES:	SAMPLE TIME: 16:15 ID# VW-8				
	DUPLICATE TIME: ID#:				
	EQUIP. BLANK: TIME: ID#:				
	PREPARED BY: STEPHEN RAMOS				

# APPENDIX C

LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS





PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

24 May 2012

Brand Burfield PSI -- Oakland 4703 Tidewater Ave Ste B Oakland, CA 94601 RE: Volvo-San Leandro

Enclosed are the results of analyses for samples received by the laboratory on 05/18/12 09:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wordy Hsia

Wendy Hsiao Project Manager



PSI Oakland	Project: Volvo-San Leandro	
4703 Tidewater Ave Ste B	Project Number: 575-414-1	Reported:
Oakland CA, 94601	Project Manager: Brand Burfield	05/24/12 16:14

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T120851-01	Water	05/17/12 11:41	05/18/12 09:20
MW-2	T120851-02	Water	05/17/12 12:40	05/18/12 09:20
MW-3	T120851-03	Water	05/17/12 14:00	05/18/12 09:20
MW-4	T120851-04	Water	05/17/12 15:35	05/18/12 09:20
VW-6	T120851-05	Water	05/17/12 14:48	05/18/12 09:20
VW-8	T120851-06	Water	05/17/12 16:15	05/18/12 09:20

SunStar Laboratories, Inc.

Wordy Flsia

Wendy Hsiao, Project Manager



PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb Project Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
			AW-1 1-01 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Purgeable Petroleum Hydrocarbo	ns by EPA 80150	2							
C6-C12 (GRO)	ND	50	ug/l	1	2051815	05/18/12	05/21/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		73.8 %	72.6	-146	"	"	"	"	
Volatile Organic Compounds by <b>E</b>	'PA Method 876	)B							
Bromobenzene	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	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	"	"		"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

Wordy Flsia



PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb roject Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		N T12085	AW-1 1-01 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.		_			
Volatile Organic Compounds by				,					
1,2-Dichloropropane	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
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	"	"	"	"	"	"	
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	"	"		"	"	"	

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb roject Manag	er: 575-4		dro			<b>Reported:</b> 05/24/12 16	
		N T12085	AW-1 1-01 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by E									
Tert-butyl alcohol	ND	10	ug/l	1	2051814	05/18/12	05/23/12	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		97.6 %	83.5	-119	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	81-	136	"	"	"	"	
Surrogate: Toluene-d8		92.6 %	88.8	-117	"	"	"	"	

SunStar Laboratories, Inc.

Wordy Flsia

Wendy Hsiao, Project Manager



C6-C12 (GRO)         ND         50         ug/l         1         2051815         05/18/12         05/21/12         EPA 8015C           Surrogate: 4-Bromofluorobenzene         85.1 %         72.6-146         " <td< th=""><th>PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601</th><th></th><th>Proje Project Numb Project Manag</th><th>er: 575-4</th><th></th><th>dro</th><th></th><th></th><th><b>Reported</b> 05/24/12 16</th><th></th></td<>	PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb Project Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
AnalyteResultLimitUnitsDilutionBatchPreparedAnalyzedMethodSunStar Laboratories, Inc.Purgeable Petroleum Hydrocarbons by EPA 8015CCS-C12 (GRO)ND50ug/l1205181505/18/1205/21/12EPA 8015CSurrogate: 4.Bromofluorobenzene85.1%72.6-1/6"" </th <th></th> <th></th> <th></th> <th></th> <th>ater)</th> <th></th> <th></th> <th></th> <th></th> <th></th>					ater)					
Purgeable Petroleam Hydrocarbons by EPA 8015C           C6-C12 (GRO)         ND         50         ug/l         1         2051815         05/18/12         05/21/12         EPA 8015C           Surrogate: 4-Bronofluorobenzene         85.1 %         72.6-146         "         "         "         "         "           Volatile Organic Compounds by EPA Method 8260B         " <th>Analyte</th> <th>Result</th> <th></th> <th>Units</th> <th>Dilution</th> <th>Batch</th> <th>Prepared</th> <th>Analyzed</th> <th>Method</th> <th>Note</th>	Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Note
C6-C12 (GRO)         ND         50         ug/l         1         2051815         05/18/12         05/21/12         EPA 8015C           Surrogate: 4-Bromofluorobenzene         85.1 %         72.6-146         " <td< td=""><td></td><td></td><td>SunStar La</td><td>aborato</td><td>ries, Inc.</td><td></td><td></td><td></td><td></td><td></td></td<>			SunStar La	aborato	ries, Inc.					
Surrogate: 4-Bromofluorobenzene         85.1 %         72.6-146         " <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2051015</td> <td>05/19/12</td> <td>05/01/10</td> <td>EDA 9015C</td> <td></td>					1	2051015	05/19/12	05/01/10	EDA 9015C	
ND         1.0         ug/l         1         2051814         05/18/12         05/23/12         EPA 8260B           Bromobenzene         ND         1.0         " <td< td=""><td></td><td>ND</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		ND		-						
BromobenzeneND1.0ug/l1205181405/18/1205/23/12EPA 8260BBromochloromethaneND1.0""""""""BromochloromethaneND1.0"""""""""BromoformND1.0""""""""""BromoformND1.0"""<	Surrogate: 4-Bromofluorobenzene		85.1 %	72.6	-140	"	"	"	"	
Bromochloromethane         ND         1.0         "	Volatile Organic Compounds by E	PA Method 8260	В							
District of the first	Bromobenzene	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
BromoformND1.0""" <th< td=""><td>Bromochloromethane</td><td>ND</td><td>1.0</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td>"</td><td></td></th<>	Bromochloromethane	ND	1.0	"	"	"	"	"	"	
BromomethaneND1.0"""	Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
n-ButylbenzeneND1.0""" <td>Bromoform</td> <td>ND</td> <td>1.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	Bromoform	ND	1.0	"	"	"	"	"	"	
Sec-Butylbenzene       ND       1.0       "	Bromomethane	ND	1.0	"	"	"	"	"	"	
kert-ButylbenzeneND1.0"""	n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride       ND       0.50       " </td <td>sec-Butylbenzene</td> <td>ND</td> <td>1.0</td> <td>"</td> <td>"</td> <td></td> <td>"</td> <td>"</td> <td>"</td> <td></td>	sec-Butylbenzene	ND	1.0	"	"		"	"	"	
ChlorobenzeneND1.0""" <td>ert-Butylbenzene</td> <td>ND</td> <td>1.0</td> <td>"</td> <td>"</td> <td></td> <td>"</td> <td>"</td> <td>"</td> <td></td>	ert-Butylbenzene	ND	1.0	"	"		"	"	"	
Chloroethane       ND       1.0       "	Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorotentare       ND       1.0       "	Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloromethane       ND       1.0       "		ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene       ND       1.0       "	Chloroform	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene       ND       1.0       "	Chloromethane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane       ND       1.0       " <td>2-Chlorotoluene</td> <td>ND</td> <td>1.0</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>	2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane       ND       1.0       "       <	4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
ND1.0"""<		ND	1.0	"	"	"	"	"	"	
Dibromomethane       ND       1.0       "		ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene       ND       1.0       " <td></td> <td></td> <td>1.0</td> <td></td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td>"</td> <td></td>			1.0		"	"	"	"	"	
ND1.0"""<				"	"	"	"	"	"	
ND       1.0       "	-					"			"	
Dichlorodifluoromethane       ND       0.50       " <th"< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th"<>										
ND       1.0       "										
ND     0.50     "     "     "     "     "       1,2-Dichloroethene     ND     1.0     "     "     "     "     "       1,1-Dichloroethene     ND     1.0     "     "     "     "     "       cis-1,2-Dichloroethene     ND     1.0     "     "     "     "     "										
ND     1.0     "     "     "     "     "       cis-1,2-Dichloroethene     ND     1.0     "     "     "     "     "	-									
cis-1,2-Dichloroethene ND 1.0 " " " " " "										
rans-1.2-Dichloroethene ND 1.0 " " " " " "										
	rans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb roject Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		N T12085	/IW-2 1-02 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by	EPA Method 8260	В							
1,2-Dichloropropane	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
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	"	"	"	"	"	"	
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	"	"	"	"	"	"	
p-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb roject Manag	er: 575-4		dro			<b>Reported:</b> 05/24/12 16	
		N T12085	AW-2 1-02 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by E									
Tert-butyl alcohol	ND	10	ug/l	1	2051814	05/18/12	05/23/12	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		96.5 %	83.5	-119	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	81-	136	"	"	"	"	
Surrogate: Toluene-d8		94.8 %	88.8	8-117	"	"	"	"	

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Wendy Hsiao, Project Manager



PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb Project Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		N T12085	/IW-3 1-03 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Purgeable Petroleum Hydrocarbo	ns by EPA 80150	С							
C6-C12 (GRO)	900	50	ug/l	1	2051815	05/18/12	05/21/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		87.1 %	72.6	5-146	"	"	"	"	
Volatile Organic Compounds by E	PA Method 826	0B							
Bromobenzene	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"					"	
Bromoform	ND	1.0	"	"		"		"	
Bromomethane	ND	1.0	"	"			"	"	
n-Butylbenzene	7.3	1.0	"	"			"	"	
sec-Butylbenzene	4.5	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	"	"	"	"	"	"	

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb roject Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		N T12085	AW-3 1-03 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by	EPA Method 8260	В							
1,3-Dichloropropane	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
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	1.9	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	8.5	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	"	"			"	"	
p-Xylene	ND	0.50	"	"			"	"	
Tert-amyl methyl ether	ND	2.0		"			"	"	
Tert-butyl alcohol	ND	10	"	"		"		"	

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	F P		<b>Reported:</b> 05/24/12 16:						
		N T12085	/W-3 1-03 (W	ater)					
		112005	1-05 (11	atci)					r
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by El	PA Method 8260	В							
Di-isopropyl ether	ND	2.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"		"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"		"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	83.5	-119	"	"	"	"	
Surrogate: Dibromofluoromethane		"	"						

88.8-117

95.4 %

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Surrogate: Toluene-d8

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Wendy Hsiao, Project Manager

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.

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb Project Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		N T12085	/IW-4 1-04 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Purgeable Petroleum Hydrocarbo	ns by EPA 801	5C							
C6-C12 (GRO)	5200	50	ug/l	1	2051815	05/18/12	05/21/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		90.8 %	72.6	5-146	"	"	"	"	
Volatile Organic Compounds by E	DA Mothad 01	600							
Bromobenzene	PA Method 82 ND	1.0	.u.a/1	1	2051914	05/19/12	05/22/12	EPA 8260B	
Bromochloromethane	ND	1.0 1.0	ug/l "	1	2051814	05/18/12	05/23/12	EPA 8200B	
Bromodichloromethane	ND	1.0						"	
Bromoform	ND	1.0					"	"	
Bromomethane	ND	1.0					"	"	
n-Butylbenzene	18	1.0					"	"	
sec-Butylbenzene	7.6	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	"		"	"	"	"	

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb Project Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		N T12085	/IW-4 1-04 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by	EPA Method 8260	)B							
1,3-Dichloropropane	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
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	29	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	1.9	1.0	"	"		"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	27	1.0	"	"	"	"	"	"	
n-Propylbenzene	76	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	4.7	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	30	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	30	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"			"		"	
Ethylbenzene	120	0.50	"			"		"	
m,p-Xylene	17	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	"	"	"	"	"	"	

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Project: Volvo-San Leandro Project Number: 575-414-1 Project Manager: Brand Burfield							
		N T12085	/IW-4 1-04 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	ſ	SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by	y EPA Method 8260H	3							
Ethyl tert-butyl ether	ND	2.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

Methyl tert-butyl ether	ND	1.0	" "	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	81-136	"	"	"	"	
Surrogate: Toluene-d8		95.0 %	88.8-117	"	"	"	"	

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Wendy Hsiao, Project Manager



PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb Project Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		T12085	VW-6 1-05 (W	(ater)					
		Reporting	1-05 ( 11						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Purgeable Petroleum Hydrocarbon			. /1	1	2051015	05/10/10	05/01/10	ED4 00150	
C6-C12 (GRO)	76	50	ug/l	1	2051815	05/18/12	05/21/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		72.3 %	72.6	5-146	"	"	"	"	S-GC
Volatile Organic Compounds by E	PA Method 8260	B							
Bromobenzene	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	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	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"			"	

SunStar Laboratories, Inc.

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb roject Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		T12085	VW-6 1-05 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
-		SunStar La	aborato	ries. Inc.		*			
Volatile Organic Compounds by	EPA Method 8260								
1,2-Dichloropropane	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
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	2.5	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	1.2	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	"	"			"		
p-Xylene	ND	0.50	"	"			"		
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project Number: 575-414-1									
		T12085	VW-6 1-05 (W	ater)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Valatila Organia Compounda by F	DA Mothod 9260	SunStar La	aborato	ries, Inc.						
Volatile Organic Compounds by E Tert-butyl alcohol	ND	<b>b</b> 10	ug/l	1	2051814	05/18/12	05/23/12	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		98.1 %	83.5	-119	"	"	"	"		
Surrogate: Dibromofluoromethane		111 %	81-	136	"	"	"	"		
Surrogate: Toluene-d8		93.5 %	88.8	-117	"	"	"	"		

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Wendy Hsiao, Project Manager



PSI Oakland 4703 Tidewater Ave Ste B		Proje Project Numb		o-San Lean 414-1	dro			Reported	Reported:	
Oakland CA, 94601	I	Project Manag	er: Brand	d Burfield				05/24/12 16	:14	
		1	VW-8							
		T12085		ater)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note	
		SunStar La	aborato	ries, Inc.						
Purgeable Petroleum Hydrocarbo										
C6-C12 (GRO)	96	50	ug/l	1	2051815	05/18/12	05/21/12	EPA 8015C		
Surrogate: 4-Bromofluorobenzene		74.9 %	72.6	5-146	"	"	"	"		
Volatile Organic Compounds by E	CPA Method 8260	B								
Bromobenzene	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	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				"	"	"		
cis-1,2-Dichloroethene	ND	1.0	"			"	"	"		
trans-1,2-Dichloroethene	ND	1.0	"					"		

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje roject Numb roject Manag	er: 575-4		dro			<b>Reported</b> 05/24/12 16	
		T12085	VW-8 1-06 (W	ater)					
	D l	Reporting			D . 1				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by	EPA Method 82601	3							
1,2-Dichloropropane	ND	1.0	ug/l	1	2051814	05/18/12	05/23/12	EPA 8260B	
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	"	"	"	"	"	"	
lsopropylbenzene	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	"	"	"	"	"		
Frichlorofluoromethane	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	"	"	"	"	"	"	
Foluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
n,p-Xylene	ND	1.0	"	"	"	"	"	"	
p-Xylene	ND	0.50	"	"	"	"	"		
Fert-amyl methyl ether	ND	2.0	"	"	"	"	"		

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PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	703 Tidewater Ave Ste BProject Number: 575-414-1Pakland CA, 94601Project Manager: Brand Burfield										
		T12085	WW-8 1-06 (W	ater)							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
		SunStar La	aborator	ries, Inc.							
Volatile Organic Compounds by E			/1		2051011	054040	05/00/10				
Tert-butyl alcohol	ND	10	ug/l "	1	2051814	05/18/12	05/23/12	EPA 8260B "			
Di-isopropyl ether	ND ND	2.0	"								
Ethyl tert-butyl ether Methyl tert-butyl ether	ND	2.0 1.0	"					"			
	ND	98.9 %	82 5	-119	"	"	"	"			
Surrogate: 4-Bromofluorobenzene Surrogate: Dibromofluoromethane		98.9 % 98.1 %		-119	"	"	"	"			
Surrogate: Toluene-d8		95.2 %		R-117	"	"	"	"			

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Wendy Hsiao, Project Manager



PSI Oakland	Project: Volvo-San Leandro	
4703 Tidewater Ave Ste B	Project Number: 575-414-1	Reported:
Oakland CA, 94601	Project Manager: Brand Burfield	05/24/12 16:14

#### Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2051815 - EPA 5030 GC										
Blank (2051815-BLK1)										
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	73.2		"	100		73.2	72.6-146			
LCS (2051815-BS1)		Prepared: 05/18/12 Analyzed: 05/21/12								
C6-C12 (GRO)	5770	50	ug/l	5500		105	75-125			
Surrogate: 4-Bromofluorobenzene	86.6		"	100		86.6	72.6-146			
Matrix Spike (2051815-MS1)	Sou	ırce: T12084	5-24	Prepared:	05/18/12	Analyzed	1: 05/21/12			
C6-C12 (GRO)	5480	50	ug/l	5500	44.7	98.8	65-135			
Surrogate: 4-Bromofluorobenzene	93.5		"	100		93.5	72.6-146			
Matrix Spike Dup (2051815-MSD1)	Sou	ırce: T12084	5-24	Prepared:	05/18/12	Analyzed	1: 05/21/12			
C6-C12 (GRO)	5510	50	ug/l	5500	44.7	99.4	65-135	0.676	20	
Surrogate: 4-Bromofluorobenzene	93.1		"	100		93.1	72.6-146			

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Wendy Hsiao, Project Manager

## SunStar Laboratories, Inc. PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

PSI Oakland	Project: Volvo-San Leandro	
4703 Tidewater Ave Ste B	Project Number: 575-414-1	Reported:
Oakland CA, 94601	Project Manager: Brand Burfield	05/24/12 16:14

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### SunStar Laboratories, Inc.

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

#### Batch 2051814 - EPA 5030 GCMS

Batch 2051814 - EPA 5050 GCMS				
Blank (2051814-BLK1)				Prepared: 05/18/12 Analyzed: 05/23/12
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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## SunStar — Laboratories, Inc. PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

PSI Oakland	Project: Volvo-San Leandro	
4703 Tidewater Ave Ste B	Project Number: 575-414-1	Reported:
Oakland CA, 94601	Project Manager: Brand Burfield	05/24/12 16:14

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

## SunStar Laboratories, Inc.

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

#### Batch 2051814 - EPA 5030 GCMS

Blank (2051814-BLK1)				Prepared: 05/18/12 Anal	lyzed:	05/23/12	
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	7.98		"	8.00 99	9.8	83.5-119	
Surrogate: Dibromofluoromethane	8.43		"	8.00 10	05	81-136	
Surrogate: Toluene-d8	7.53		"	8.00 94	4.1	88.8-117	

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Wendy Hsiao, Project Manager



PSI Oakland	Project: Volvo-San Leandro	
4703 Tidewater Ave Ste B	Project Number: 575-414-1	Reported:
Oakland CA, 94601	Project Manager: Brand Burfield	05/24/12 16:14

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

## SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2051814 - EPA 5030 GCMS										
LCS (2051814-BS1)				Prepared:	05/18/12	Analyze				
Chlorobenzene	19.3	1.0	ug/l	20.0		96.7	75-125			
1,1-Dichloroethene	20.4	1.0	"	20.0		102	75-125			
Trichloroethene	20.2	1.0	"	20.0		101	75-125			
Benzene	20.0	0.50	"	20.0		99.8	75-125			
Toluene	18.9	0.50	"	20.0		94.4	75-125			
Surrogate: 4-Bromofluorobenzene	7.64		"	8.00		95.5	83.5-119			
Surrogate: Dibromofluoromethane	7.67		"	8.00		95.9	81-136			
Surrogate: Toluene-d8	7.66		"	8.00		95.8	88.8-117			
Matrix Spike (2051814-MS1)	<b>Source: T120851-01</b> Prepa		Prepared:	05/18/12	Analyze	d: 05/22/12				
Chlorobenzene	19.0	1.0	ug/l	20.0	ND	95.2	75-125			
1,1-Dichloroethene	20.4	1.0	"	20.0	ND	102	75-125			
Trichloroethene	20.4	1.0	"	20.0	0.410	100	75-125			
Benzene	19.5	0.50	"	20.0	ND	97.7	75-125			
Toluene	20.0	0.50	"	20.0	ND	100	75-125			
Surrogate: 4-Bromofluorobenzene	7.46		"	8.00		93.2	83.5-119			
Surrogate: Dibromofluoromethane	7.63		"	8.00		95.4	81-136			
Surrogate: Toluene-d8	7.96		"	8.00		99.5	88.8-117			
Matrix Spike Dup (2051814-MSD1)	So	urce: T12085	1-01	Prepared:	05/18/12	Analyze	d: 05/23/12			
Chlorobenzene	19.1	1.0	ug/l	20.0	ND	95.5	75-125	0.315	20	
1,1-Dichloroethene	21.1	1.0	"	20.0	ND	105	75-125	3.08	20	
Trichloroethene	19.1	1.0	"	20.0	0.410	93.6	75-125	6.67	20	
Benzene	19.7	0.50	"	20.0	ND	98.4	75-125	0.663	20	
Toluene	18.5	0.50	"	20.0	ND	92.7	75-125	7.73	20	
Surrogate: 4-Bromofluorobenzene	7.36		"	8.00		92.0	83.5-119			
Surrogate: Dibromofluoromethane	8.27		"	8.00		103	81-136			
Surrogate: Toluene-d8	7.42		"	8.00		92.8	88.8-117			

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Wendy Hsiao, Project Manager



PSI Oakland	Project: Volvo-San Leandro	
4703 Tidewater Ave Ste B	Project Number: 575-414-1	Reported:
Oakland CA, 94601	Project Manager: Brand Burfield	05/24/12 16:14

#### **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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Wendy Hsiao, Project Manager

## Chain of Custody Record

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

Client: PS F Address: 4703 T Phone: (013)+34-91 Project Manager: B	200	Fax: L3	10)432	17676	A 9 - -	46	)) F	Date:_ Projec Collec Batch	t Nar	ne:	V	IUL	-70	- <u>-</u> Nas	<b>m</b>	(AE	AND	Ю	_Of	122-j 5732	- - - -
Sample ID	Date Sampled	11:41	Sample Type WMTRA	Container Type <b>VD<del>A</del></b>	8260	X8260 + 0XY	8260 BTEX, OXY only	8270 8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals				2 Laboratory ID #	Co	ommen	ts/Prese	rvative	LLLLTTotal # of containers
MW-2 MW-3		12:40	· · · · · ·			X	_		Ŕ	<b> </b>						02					14
Mw-4		14:00	+			X	+		$\bigotimes$							03				•	17
VW-6		14:48				$\Diamond$			K	<b>}</b>			$\vdash$	-		04			·····		4
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Relinquished by: (signature			GSU TRA	ı y: (signature) c≮ℳ ∓	lo	74	116		8	Cha	ain o				tainers				Notes		<u> </u>
Relinquished by: (signature)	) Date / T <i>9: 20</i> ・ ・/多・/2	ime	Received b	y: (signature) y: (signature) y: (signature)	,		Date	/ Time 9:2 *12	•			Se	eals in	tact?	n/colo						
Relinquished by: (signature	) Date / T	ime	Received b	y: (signature)		(	Date	/ Time	;							L	1.				
										Tur	n ar	oun	d time	e: S	TO		1				
Sample disposal Instructions	Disposal @ \$2.00	each	Return	to client		Pic	kup		••••	1.01					-		L				

REVIEW SHEET
₽ <sub>1</sub>
oject: <u>Voluo - San LEANDRO</u>
ate/Time Received: <u>5-18-12</u> 9:20
FedEx Other
teria = 6°C > 0°C (no <u>frozen</u> containers)
<b>6</b> °C corrected temperature
°C corrected temperature
°C corrected temperature
sampling. Yes No* N/A
Yes No* N/A
SL Wyes No*
Yes No*
Yes No*
Yes No*
quested Yes No* N/A
peratures, containers, labels, volumes Ves No*
ler/Sample Review - Initials and date <u>St. 5.18.</u>
· · · · · · · · · · · · · · · · · · ·

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# SAMPLE NON-CONFORMANCE SHEET

COOLERS		LABELS					
□ Not Received	(received COC only)	$\Box$ Not the same sample ID / info as on the COC					
Leaking/Dam	aged	Incomplete Information					
□ Other:	0	□ Markings/Info illegible					
CUSTODY SEA	LS	SAMPLES					
		□ Samples NOT RECEIVED but listed on COC					
□ Not Intact		□ Samples received but NOT LISTED on COC					
TEMPERATUR	E (SPECS 6 > 0°C)	□ Logged based on Label Information and not COC					
Cooler/Sampl	· · ·	□ Logged according to Work Plan and not COC					
		Logged in, ON HOLD until further notice					
CHAIN OF CUS		□ Insufficient quantities for analysis					
	hed by client; No date/time relinquished	□ Improper container used					
-	formation provide	☐ Mislabeled as to tests, preservatives, etc.					
1	ived – notify PM	□ Holding time expired – list sample ID and test					
<ul> <li>CONTAINERS</li> </ul>		□ Not preserved/Improper preservative used					
	Broken	U Without Labels, no information on containers					
□ Extra		□ Other					

**COMMENTS:** 

SAMPLE (VW-8) 2 OUT OF 4 VOAS BROKE DURING TRANSIT.

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction						Preser.
VOA				 		 
	 		 	 	 ļ	
	-					

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, T: Terracore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s203: sodium thiosulfate