

DEPARTMENT OF TRANSPORTATION

111 GRAND AVENUE
P. O. BOX 23660
OAKLAND, CA 94612
PHONE (510) 286-5000
FAX (510) 286-5639
TTY (800) 735-2929



*Flex your power!
Be energy efficient!*

RECEIVED**11:18 am, Nov 17, 2011****Alameda County
Environmental Health**

Date: November 15, 2011

Mr. Keith Nowell, P.G., C.H.G.
Alameda County Health Care Services
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Reference: Semi-Annual Groundwater Monitoring Report (September 2011)
Former Hegenberger Maintenance Station, 555 Hegenberger Rd., Oakland, CA

Mr. Keith Nowell:

Attached for your review is the Semi Annual Groundwater Monitoring Report (September 2011) for the Former Hegenberger Maintenance Station, 555 Hegenberger Avenue, Oakland, California. This report is prepared for the Alameda County Health Care Services Environmental Protection Division by Stantec Consulting Corporation.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached proposal or report is true and correct, to the best of my knowledge.

If you have any questions, please don't hesitate to contact me or Stantec Project Manager Gary Messerotes at 408.356.6124 extension 252.

Sincerely,

A handwritten signature in black ink that reads "Ramin Behani".

Ramin Behani, P.E.
Office of Environmental Engineering
Division of Environmental Planning & Engineering
Caltrans District 04



Stantec

Stantec Consulting Corporation
15575 Los Gatos Boulevard Building C
Los Gatos CA 95032
Tel: (408) 356-6124
Fax: (408) 356-6138

November 10, 2011

Mr. Keith Nowell, P.G., C.H.G.
Alameda County Health Care Services
Environmental Protection Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Dear Mr. Nowell:

**Reference: Semi-Annual Groundwater Monitoring Report (September 2011)
Former Hegenberger Maintenance Station
555 Hegenberger Road
Oakland, California**

Stantec Consulting Corporation (Stantec) has prepared this report describing the first of semi-annual groundwater monitoring events to be conducted at the California Department of Transportation (Caltrans) Former Hegenberger Maintenance Station, located at 555 Hegenberger Road, Oakland, California (Site; Figure 1). The semi-annual groundwater sampling activities were conducted in accordance with requirements stated in the letter from the Alameda County Health Care Services Agency (ACHCSA) dated July 25, 2011.

The conclusions presented in this report are professional opinions based on data described herein. Limitations associated with this report are described in Appendix A.

BACKGROUND

The Site was formerly occupied by Caltrans to store and service maintenance vehicles and equipment and is currently occupied as a parking lot for General Motors Corporation (GMC) Truck Center. In September 1995, five groundwater monitoring wells (MW-1 through MW-5) were installed to assess the vertical and lateral extent of impacts to soil and groundwater from the former underground storage tanks (USTs) and pump island at the Site.

Previous groundwater monitoring events were intermittent between 1995 and 1998. Groundwater monitoring resumed in 2001 and had been conducted on an annual basis between 2001 and 2005. No groundwater sampling events were conducted between 2005 and September 2011.

The groundwater samples were originally sampled for total petroleum hydrocarbons (TPH) as gasoline (GRO); TPH as diesel (DRO); TPH as motor oil (MO); oil and grease (O&G); benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl-tertiary butyl ether (MTBE). Volatile organic compounds (VOCs) were added to the groundwater sampling program in March 2001. Due to low concentrations, the ACHCSA approved the removal of TPH-MO, O&G, MTBE, and VOCs from the groundwater monitoring program.

GROUNDWATER MONITORING

Groundwater Level Measurements

On September 29, 2011, Stantec measured groundwater levels in groundwater monitoring wells MW-1 through MW-5 to the nearest 0.01-foot using a Solinst™ electronic water level meter. Depth-to-water and calculated well volumes were recorded on Groundwater Sample Field Data Sheets (Appendix B). Depth-to-water measurements and groundwater elevations are presented in Table 1; groundwater elevations are illustrated on Figure 2.

Monitoring Well Purging and Sampling

Due to slow recharge, monitoring wells MW-1 through MW-5 were purged on September 29, 2011 and sampled on September 30, 2011. Clean disposable bailers were used to purge and sample each well. Physical parameters, including pH, temperature, oxidation reduction potential (ORP) and conductivity, were monitored during purging and recorded on field data sheets (Appendix B).

Groundwater samples were transferred from the bailers to laboratory-supplied containers. Sample containers were sealed, labeled, and placed on ice for transport to APPL Laboratories in Clovis, California, a California-certified analytical laboratory. Field instruments were cleaned with a non-phosphate cleanser, a tap-water rinse, and a final de-ionized water rinse prior to use and between each well sampled. New nitrile gloves were used for each sampling point. Rinse and purge water was containerized in a 55-gallon drum.

Analytical Methods

The groundwater samples from each well were analyzed for TPH-GRO and TPH-DRO by EPA Method 8015B with silica gel cleanup, and for fuel oxygenates by EPA Method 8260B.

GROUNDWATER MONITORING RESULTS

The current flow direction and gradient could not be determined during this quarter due to the anomalously high groundwater elevation in MW-1. The groundwater elevation for MW-1 has historically been anomalous making it difficult to determine the flow direction and gradient at the Site. Regional groundwater flow direction should be towards the west; however, due to the close proximity to the San Francisco Bay, it may be tidally influenced. Historical and current groundwater elevations are presented in Table 1.

DATA SUMMARY

Concentrations of TPH constituents, BTEX, and fuel oxygenates from this sampling event were generally within historic concentration ranges. TPH concentrations in MW-1, MW-3, and MW-5 exceed the San Francisco Regional Water Quality Control Board Environmental Screening Levels (ESLs, May 2008) where groundwater is and is not a current or potential source of drinking water. Additionally, benzene concentrations in MW-1 and MW-3 continued to exceed ESLs.

Toluene, ethyl-benzene, xylenes, and fuel oxygenates (methyl tertiary-butyl ether [MTBE], 1,2-dichloroethane [1,2-DCA], 1-2 ethylene dibromide [EDB], di-isopropyl ether [DIPE], ethyl-tert-butyl ether [ETBE], tert-amyl methyl ether [TAME], and tert-butyl alcohol [TBA]) that were detected in the groundwater samples were at concentrations below their respective ESLs.

Table 2 presents a summary of groundwater analytical results from the Site monitoring wells; the complete Certified Analytical Laboratory Reports and chain-of-custody documents are included in Appendix C.

FUTURE ACTIVITIES

Stantec will prepare and submit a preferential pathway study and a work plan for soil and groundwater characterization for the Site to ACHCSA by December 23, 2011. Stantec will conduct the subsurface investigation for the groundwater characterization in 2012. The goal of this investigation will be to further define the extent of soil and groundwater impacts at the Site. Results from the subsurface investigation will be reported separately. The groundwater monitoring wells will be resurveyed during the subsurface investigation field activities in an effort to determine the accuracy of MW-1 and the remaining wells.

If you have any questions regarding this submittal, please contact Gary Messerotes at (408) 356-6124 extension 252.

Sincerely,

STANTEC CONSULTING CORPORATION



Jack C. Hardin, R.E.A.
Managing Principal



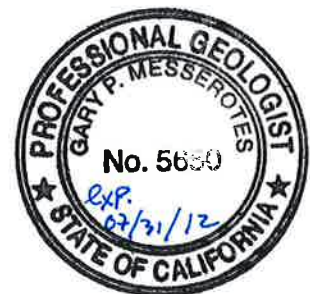
Gary P. Messerotes, P.G.
Project Manager

Attachments:

Table 1 – Groundwater Elevation Data
Table 2 – Groundwater Analytical Results

Figure 1 – Site Location Map
Figure 2 – Groundwater Elevations – Third Quarter 2011

Appendix A – Statement of Limitations
Appendix B – Groundwater Sample Field Data Sheets
Appendix C – Certified Analytical Laboratory Reports and Chain-of-Custody Documents



TABLES

TABLE 1
Groundwater Elevation Data
Caltrans Former Hegenberger Maintenance Station
555 Hegenberger Road
Oakland, CA

Sample ID	Well Screen Interval (feet)	Date	TOC Elevation (feet, msl)	DTW (feet)	GW Elevation (feet, msl)
MW-1	4.5-19.5	10/11/95	99.73	6.55	93.18
		01/17/96	99.73	5.64	94.09
		04/16/96	99.73	5.46	94.27
		08/26/96	99.73	5.91	93.82
		11/14/96	99.73	6.16	93.57
		02/18/98	99.73	3.82	95.91
		03/30/01	99.73	6.19	93.54
		***12/26/01	10.26	4.08	6.18
		09/30/02	10.26	5.79	4.47
		02/20/03	10.26	4.49	5.77
		01/12/04	10.26	4.41	5.85
		05/12/05	10.26	4.45	5.81
		09/29/11	10.26	5.57	4.69
		MW-2	5-20	10/11/95	99.68	6.88	92.80
01/17/96	99.68			5.32	94.36
04/16/96	99.68			5.81	93.87
08/26/96	99.68			5.98	93.70
11/14/96	99.68			6.72	92.96
02/18/98	99.68			5.01	94.67
03/30/01	99.68			6.54	93.14
***12/26/01	10.22			5.53	4.69
09/30/02	10.22			6.48	3.74
02/20/03	10.22			5.98	4.24
01/12/04	10.22			5.69	4.53
05/12/05	10.22			5.55	4.67
09/29/11	10.22			6.21	4.01
MW-3	4.5-19.5			10/11/95	98.92	6.42	92.50
		01/17/96	98.92	5.82	93.10
		04/16/96	98.92	5.85	93.07
		08/26/96	98.92	5.72	93.20
		11/14/96	98.92	6.28	92.64
		02/18/98	98.92	4.65	94.27
		03/30/01	98.92	5.62	93.30
		***12/26/01	9.46	4.66	4.80
		09/30/02	9.46	5.84	3.62
		02/20/03	9.46	5.55	3.91
		01/12/04	9.46	4.77	4.69
		05/12/05	9.46	4.63	4.83
		09/29/11	9.46	5.50	3.96
		MW-4	4-19	10/11/95	99.46	6.63	92.83
01/17/96	99.46			5.77	93.69
04/16/96	99.46			5.89	93.57
08/26/96	99.46			6.14	93.32
11/14/96	99.46			6.72	92.74
02/18/98	99.46			5.02	94.44

TABLE 1
Groundwater Elevation Data
Caltrans Former Hegenberger Maintenance Station
555 Hegenberger Road
Oakland, CA

Sample ID	Well Screen Interval (feet)	Date	TOC Elevation (feet, msl)	DTW (feet)	GW Elevation (feet, msl)
MW-4 (cont.)		03/30/01	99.46	6.21	93.25
		***12/26/01	10.00	5.37	4.63
		09/30/02	10.00	6.40	3.60
		02/20/03	10.00	5.83	4.17
		01/12/04	10.00	5.41	4.59
		05/12/05	10.00	5.59	4.41
		09/29/11	10.00	6.23	3.77
MW-5	5-20	10/11/95	99.91	6.68	93.23
		01/17/96	99.91	5.74	94.17
		04/16/96	99.91	5.85	94.06
		08/26/96	99.91	5.99	93.92
		11/14/96	99.91	6.70	93.21
		02/18/98	99.91	5.74	94.17
		03/30/01	99.91	6.73	93.18
		***12/26/01	10.34	5.23	5.11
		09/30/02	10.34	6.18	4.16
		02/20/03	10.34	5.80	4.54
		01/12/04	10.34	5.60	4.74
		05/12/05	10.34	6.18	4.16
		09/29/11	10.34	6.37	3.97

Notes

Data prior to September 29, 2011 was provided by Geocon Consultants, Inc.

TOC = Top of Casing

DTW = Depth to groundwater

GW = groundwater

msl = mean sea level

***Change of base reference for elevation above mean sea level to the California state Coordinate system, Zone III

Table 2
Groundwater Analytical Results
Caltrans Former Hegenberger Maintenance Station
555 Hegenberger Road
Oakland, CA

Sample ID	Date	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-MO (µg/L)	O&G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other VOCs (µg/L)
ESL where GW:	IS a current or potential source of drinking water	100	100	100	100	1.0	40	30	20	5.0	NE
	IS NOT a current or potential source of drinking water	210	210	210	210	46	130	43	100	1,800	NE
MW-1	10/11/1995	720	<50	<50	<5,000	660	13	4.7	2.8	--	--
	1/17/1996	4,400	<50	<50	--	1,000	30	21	17	--	--
	4/16/1996	6,050	7,450	--	--	914	34.7	34.4	15.8	--	--
	8/26/1996	3,800	430	--	--	780	23	21	20	--	--
	11/14/1996	2,600	270	--	--	500	18	14	8.9	--	--
	2/18/1998	3,100	800	--	--	240	18	7.8	11	20	--
	3/30/2001	3,600	480	--	--	150	13	0.7	10.8	<0.5	<5
	12/26/2001	3,000	1,100	--	--	86	11	3.4	10.5	<5	Isopropylbenzene = 7.9 n-butylbenzene = 5.1 n-propylbenzene = 5.9
	9/30/2002	590	<50	--	--	12	2.7	<0.5	1.6	<0.5	--
	2/20/2003	2,660	--	--	--	36.9	10.6	7	18.1	<5	--
	1/12/2004	1,610	--	--	--	6.8	1.8	1.8	1.4	--	--
	5/12/2005	1,200	--	--	--	20	<5	<5	<5	--	--
	9/30/2011	950	530**	--	--	14	6.5	0.36 ^J	6.9	<0.5	<0.5 - <25
	MW-2	10/11/1995	<50	<50	<50	<5,000	<0.3	<0.3	<0.3	<0.5	--
1/17/1996		4,900	<50	<50	--	2,100	<1.5	<15	<15	--	--
4/16/1996		<50	<50	--	--	1.0	<0.5	<0.5	<0.5	--	--
8/26/1996		<50	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	--
11/14/1996		<50	56	--	--	<0.5	<0.5	<0.5	<0.5	--	--
2/18/1998		<50	260	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
3/30/2001		<200	370	--	--	--	0.8	<0.5	0.8	<0.5	<5
12/26/2001		86	140	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<5
9/30/2002		<50	<50	--	--	<0.5	<5	<0.5	<1.5	<0.5	--
2/20/2003		110	--	--	--	6.6	<0.5	<0.5	<1	<0.5	--
1/12/2004		67	--	--	--	<0.5	<0.5	<0.5	<1	--	--
5/12/2005		330	--	--	--	<1	<1	<1	<1	--	--
9/30/2011		130	<50	--	--	<0.4	<1.1	<0.6	<0.5	<0.5	<0.5 - <25

Table 2
Groundwater Analytical Results
Caltrans Former Hegenberger Maintenance Station
555 Hegenberger Road
Oakland, CA

Sample ID	Date	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-MO (µg/L)	O&G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other VOCs (µg/L)	
ESL where GW:	IS a current or potential source of drinking water	100	100	100	100	1.0	40	30	20	5.0	NE	
	IS NOT a current or potential source of drinking water	210	210	210	210	46	130	43	100	1,800	NE	
MW-3	10/11/1995	1,300	<50	<50	<5,000	1.0	<0.3	<0.3	<0.3	--	--	
	1/17/1996	171	<50	<50	--	64	<0.3	1	<0.3	--	--	
	4/16/1996	6,740	565	--	--	2,770	31	13.9	21.9	--	--	
	8/26/1996	700	700	--	--	180	4.2	1	4.6	--	--	
	11/14/1996	300	120	--	--	6.2	1.2	0.7	1.4	--	--	
	2/18/1998	11,000	2,500	--	--	3,070	60	54	19	25	--	
	3/30/2001	9,900	490	--	--	2,000	48	39	39	<0.5	Isopropylbenzene = 92 n-butylbenzene = 38 n-propylbenzene = 280 sec-butylbenzene = 13	
	12/26/2001	9,400	1,700	--	--	1,500	45	33	28	12	Isopropylbenzene = 85 n-butylbenzene = 39 n-propylbenzene = 250	
	9/30/2002	2,020	570	--	--	775	17.2	1	8.4	<0.5	--	
	2/20/2003	4,010	--	--	--	1,120	<50	<50	<100	<50	--	
	1/12/2004	3,520	--	--	--	632	26.9	<25	<50	--	--	
	5/12/2005	5,200	--	--	--	1,000	30	20	10	--	--	
	9/30/2011	3,800	900**	--	--	390	16	1.1	14	<0.5	<0.5 - <25	
	MW-4	10/11/1995	500	<50	<50	<5,000	17	1.1	<0.3	0.5	--	--
		1/17/1996	460	<50	<50	--	72	4.1	<0.3	1.7	--	--
4/16/1996		2,200	<50	--	--	851	7.7	1.4	5.7	--	--	
8/26/1996		300	110	--	--	55	4.9	1.2	<0.5	--	--	
11/14/1996		200	200	--	--	3.4	<0.5	--	<0.5	--	--	
2/18/1998		1,500	260	--	--	320	9.1	1	0.6	1.7	--	
3/30/2001		2,700	350	--	--	320	16	5.3	13.6	<0.5	Isopropylbenzene = 6.4	
12/26/2001		600	200	--	--	33	3	<0.5	1.7	0.8	<5	
9/30/2002		67	<50	--	--	<0.5	<0.5	<0.5	<1.5	<0.5	--	
2/20/2003		570	--	--	--	107	<10	<10	<2.0	<10	--	
1/12/2004		700	--	--	--	122	13.5	0.6	8.8	--	--	
5/12/2005		760	--	--	--	14	5.7	<5	<5	--	--	
9/30/2011		14 ^j	<50	--	--	<0.4	<1.1	<0.6	<0.5	<0.5	<0.5 - <25	

Table 2
Groundwater Analytical Results
Caltrans Former Hegenberger Maintenance Station
555 Hegenberger Road
Oakland, CA

Sample ID	Date	TPH-GRO (µg/L)	TPH-DRO (µg/L)	TPH-MO (µg/L)	O&G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Other VOCs (µg/L)
ESL where GW:	IS a current or potential source of drinking water	100	100	100	100	1.0	40	30	20	5.0	NE
	IS NOT a current or potential source of drinking water	210	210	210	210	46	130	43	100	1,800	NE
MW-5	10/11/1995	1,000	<50	<50	<5,000	45	15	1.9	6.1	--	--
	1/17/1996	<50	<50	<50	--	2	<0.3	<0.3	<0.3	--	--
	4/16/1996	1,740	855	--	--	157	20.1	3.9	22.4	--	--
	8/26/1996	900	270	--	--	55	6.4	0.9	3.7	--	--
	11/14/1996	700	320	--	--	31	5.7	0.7	0.38	--	--
	2/18/1998	1,200	580	--	--	14	5.2	0.8	5.5	9.5	--
	3/30/2001	1,500	480	--	--	7.2	6.5	<0.5	10.7	<0.5	n-propylbenzene = 5.1
	12/26/2001	5,000	7,200	--	--	0.8	10.5	3.8	10.5	3.6	Isopropylbenzene = 6
	9/30/2002	560	430	--	--	1.8	5.2	<0.5	6.5	<0.5	--
	2/20/2003	1,040	--	--	--	<2.5	8.6	<2.5	11.3	<2.5	--
	1/12/2004	1,820	--	--	--	4.2	8	0.6	12.8	--	--
	5/12/2005	1,300	--	--	--	<5	<5	<5	<5	--	--
	9/30/2011	960	440 ⁺⁺	--	--	0.34 ^J	0.52 ^J	<0.6	1.8	<0.5	<0.5 - <25

Notes:

Data prior to September 30, 2011 was provided by Geocon Consultants, Inc.

All groundwater concentrations measured in parts per billion (ppb), or micrograms per Liter (µg/L)

denote concentration levels at or above ESL where groundwater is a potential drinking water source as set forth by the San Francisco Bay Regional Water Quality Control Board in May 2008

denote concentration levels at or above ESL where groundwater is not a potential drinking water as set forth by the San Francisco Bay Regional Water Quality Control Board in May 2008

ESL = Environmental Screening Level

NE = Not established for compounds detected

TPH-GRO = Total petroleum hydrocarbons as gasoline range organics

TPH-DRO = Total petroleum hydrocarbons as diesel range organics

TPH-MO = Total petroleum hydrocarbons as motor oil range organics

O&G = Oil and Grease

MTBE = Methyl tertiary butyl ether

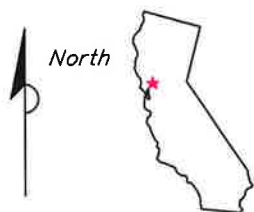
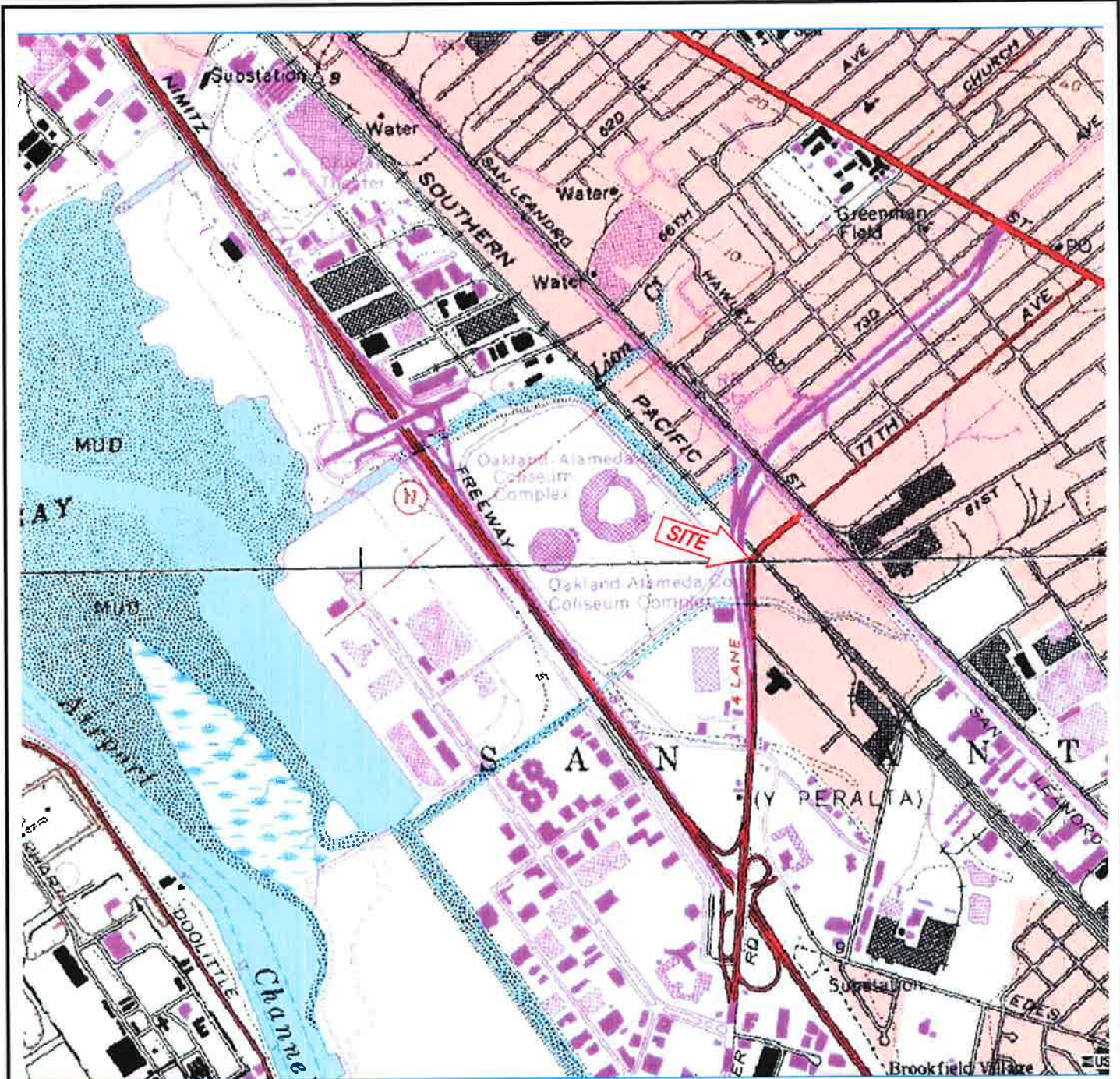
Only volatile organic compounds detected above laboratory reporting limits or practical quantitation limits are noted

-- = Analysis not performed

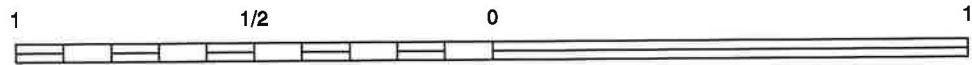
++ = The analyst has noted that the chromatogram of this sample is mainly lower boiling hydrocarbons.

J = Estimated value.

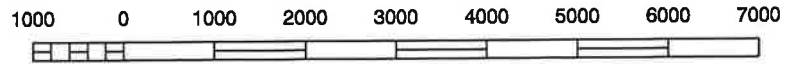
FIGURES



CALIFORNIA




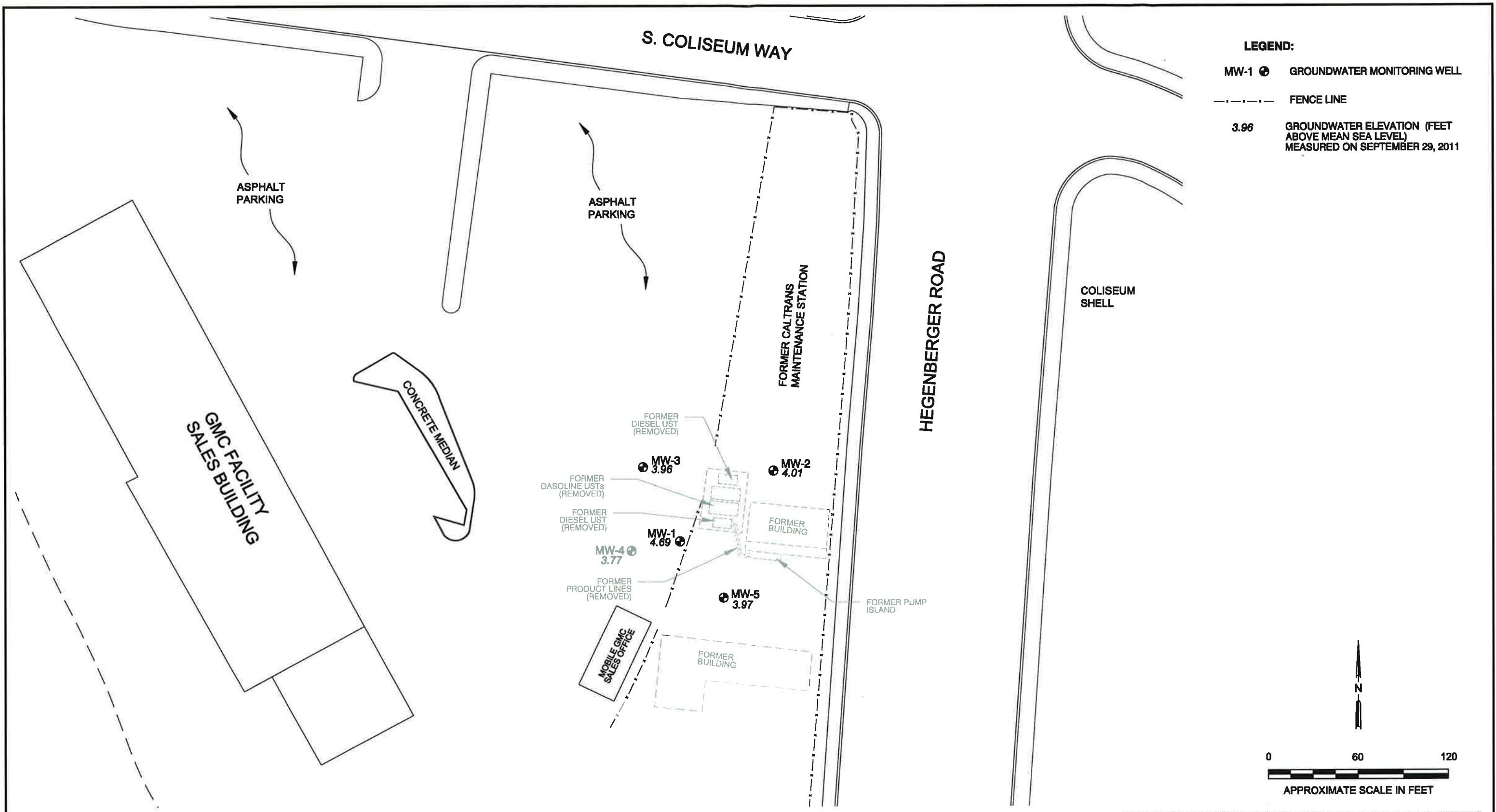
SCALE (MILES)




SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, OAKLAND, CALIFORNIA

 Stantec 15575 LOS GATOS BOULEVARD BLD-C LOS GATOS, CALIFORNIA PHONE (408) 356-6124/356-6138 (FAX)	FOR: FORMER HEGENBERGER MAINTENANCE STATION 555 HEGENBERGER ROAD OAKLAND, CALIFORNIA		SITE LOCATION MAP		FIGURE: <h1 style="text-align: center;">1</h1>
	JOB NUMBER: 185702413	DRAWN BY: MDR	CHECKED BY: AF	APPROVED BY: --	DATE: 10/13/11



No warranty is made by Stantec Consulting Corp. as to the accuracy, reliability, or completeness of these data. Original Base map information obtained from GeoCo Consulting (June 2008). This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

 Stantec 15575 LOS GATOS BOULEVARD BLD-C LOS GATOS, CALIFORNIA PHONE (408) 356-6124/356-8138 (FAX)	FOR:	FORMER HEGENBERGER MAINTENANCE STATION		GROUNDWATER ELEVATIONS	THIRD QUARTER	FIGURE:
		555 HEGENBERGER ROAD OAKLAND, CALIFORNIA					2
	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	
	185702413	MDR	AF		10/13/11	

APPENDIX A
STATEMENT OF LIMITATIONS



Stantec

**LIMITATIONS AND CERTIFICATIONS FOR
NON-PHASE I REPORTS**

QA/QC-302B

Page 1 of 1

Rev. 1.1

Apr 3, 2007

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the Site. It was prepared for the exclusive use of The California Department of Transportation (Caltrans) for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the Site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

Prepared by:

Reviewed by:

Alicia Falk, R.E.A.
Project Scientist

Jack Hardin, R.E.A.
Managing Principal

All information, conclusions, and recommendations provided by Stantec in this document regarding the Site have been prepared under the supervision of and reviewed by the Licensed Professional whose signature appears below:

Licensed Approver:

Name: Gary P. Messerotes, P.G.

Signature:

Date: 11/10/11

Stamp:



APPENDIX B
GROUNDWATER SAMPLE FIELD DATA SHEETS

**STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET**

Project No. 185702413 Purged By: DO Well I.D.: MW-2
 Client Name: Caltrans Sampled By: DO Sample I.D.: MW-2
 Location: Hegenberger What QA Samples?: _____

Date Purged: 9-29-11 Start (2400hr): 1448 End (2400hr): ~~840~~ 840
 Date Sampled: 9-30-11 Sample Time (2400hr): ~~835~~ 835

Casing Diameter: 2" ___ 3" ___ 4" X 5" ___ 6" ___ 8" ___ Other ___
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = 19.30 Casing Volume (gal) = 8.77
 Depth to water (feet) = 6.21 Calculated Purge (gal) = 26.31 (3 casing vols.)
 Water column height (feet) = 13.09 Actual Purge (gal) = 30.00

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	ORP BTW (ft)	
<u>9-29-11</u>	<u>1450</u>	<u>0</u>	<u>24.5</u>	<u>1823</u>	<u>7.09</u>	<u>clear</u>	<u>-60</u>	<u>S. Odor</u>
	<u>1510</u>	<u>10</u>	<u>22.7</u>	<u>1812</u>	<u>6.91</u>	<u>cloudy</u>	<u>-49</u>	<u>S. odor</u>
	<u>1530</u>	<u>20</u>	<u>22.2</u>	<u>1790</u>	<u>6.96</u>	<u>S. cloudy</u>	<u>-65</u>	
	<u>1555</u>	<u>30</u>	<u>21.8</u>	<u>1783</u>	<u>6.94</u>	<u>clear</u>	<u>-0</u>	

D.O. mg/l, %

PURGING EQUIPMENT

Well Wizard Bladder Pump Bailer (disposable)
 Active Extraction Well Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: _____ (feet)

SAMPLING EQUIPMENT

WW Bladder Pump Bailer (disposable)
 Sample Port Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated: _____
 Other: _____

Analyses: _____
 Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
 Remarks: Well Box Thread stripped. Needs Replacing

Signature: 

STANTEC CONSULTING GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 185702413 Purged By: DO Well I.D.: MW-3
 Client Name: Caltrans Sampled By: DO Sample I.D.: MW-3
 Location: Hegenberger What QA Samples?: _____

Date Purged: 9-29-11 Start (2400hr): 1502 End (2400hr): 850
 Date Sampled: 9-30-11 Sample Time (2400hr): 845

Casing Diameter: 2" _____ 3" _____ 4" 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = 19.46 Casing Volume (gal) = 9.35
 Depth to water (feet) = 5.50 Calculated Purge (gal) = 28.05 (3 casing vols.)
 Water column height (feet) = 13.96 Actual Purge (gal) = 28.00

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	ORP DTW (ft)	odor
<u>9-29-11</u>	<u>1504</u>	<u>0</u>	<u>26.4</u>	<u>2864</u>	<u>6.74</u>	<u>clear</u>	<u>529</u>	<u>odor</u>
	<u>1515</u>	<u>10</u>	<u>23.6</u>	<u>3232</u>	<u>6.86</u>	<u>Grey</u>	<u>518</u>	<u>odor</u>
	<u>1625</u>	<u>20</u>	<u>22.3</u>	<u>3430</u>	<u>6.88</u>	<u>Grey</u>	<u>-0</u>	<u>odor</u>
	<u>1705</u>	<u>28</u>	<u>22.2</u>	<u>3498</u>	<u>6.84</u>	<u>Grey</u>	<u>517</u>	<u>odor</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

D.O. mg/l, %

PURGING EQUIPMENT

Well Wizard Bladder Pump Bailer (disposable)
 Active Extraction Well Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: _____ (feet)

SAMPLING EQUIPMENT

WW Bladder Pump Bailer (disposable)
 Sample Port Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated: _____
 Other: _____

Analyses: _____
 Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
 Remarks: Slow Recharge, well box thread stripped. Needs Replacing

Signature: _____

STANTEC CONSULTING GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 185702413 Purged By: DD Well I.D.: MW-4
 Client Name: Caltrans Sampled By: DD Sample I.D.: MW-4
 Location: Hagenberger What QA Samples?: _____

Date Purged: ~~9-24-11~~ 9-24-11 Start (2400hr): 1038 End (2400hr): 810
 Date Sampled: 9-30-11 Sample Time (2400hr): 800 * Dup Sample taken*

Casing Diameter: 2" ___ 3" ___ 4" 5" ___ 6" ___ 8" ___ Other ___
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = 15.78 Casing Volume (gal) = 6.398
 Depth to water (feet) = 6.23 Calculated Purge (gal) = 19.19 (3 casing vols.)
 Water column height (feet) = 9.55 Actual Purge (gal) = 60.00

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	ORP -DPW (ft)	
<u>9-24-11</u>	<u>1040</u>	<u>0</u>	<u>24.0</u>	<u>5008</u>	<u>6.64</u>	<u>clear</u>	<u>32</u>	<u>odor</u>
	<u># @ 0</u>	<u>Surged</u>	<u>w/ th</u>	<u>Bailer</u>	<u>for</u>	<u>5 min</u>	<u>-</u>	<u>-</u>
	<u>1052</u>	<u>10</u>	<u>22.7</u>	<u>10.94</u>	<u>6.67</u>	<u>grey</u>	<u>22</u>	<u>odor</u>
	<u>1116</u>	<u>20</u>	<u>23.0</u>	<u>9290</u>	<u>6.93</u>	<u>grey</u>	<u>520</u>	<u>S. odor</u>
	<u>1146</u>	<u>30</u>	<u>21.2</u>	<u>8917</u>	<u>6.83</u>	<u>cloudy</u>	<u>22</u>	<u>S. odor</u>
	<u>1233</u>	<u>40</u>	<u>21.3</u>	<u>8875</u>	<u>6.78</u>	<u>cloudy</u>	<u>32</u>	<u>S. odor</u>
	<u>1320</u>	<u>50</u>	<u>21.7</u>	<u>8745</u>	<u>6.93</u>	<u>cloudy</u>	<u>-0</u>	<u>-</u>
	<u>1415</u>	<u>60</u>	<u>21.8</u>	<u>8735</u>	<u>6.81</u>	<u>cloudy</u>	<u>-23</u>	<u>-</u>

D.O. mg/l, %

PURGING EQUIPMENT

___ Well Wizard Bladder Pump ___ Bailer (disposable)
 ___ Active Extraction Well Pump ___ Bailer (PVC)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 Peristaltic Pump ___ Dedicated _____
 Other: _____
 Pump Depth: _____ (feet)

SAMPLING EQUIPMENT

___ WW Bladder Pump Bailer (disposable)
 ___ Sample Port ___ Bailer (PVC)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated: _____
 Other: _____

Analyses: _____
 Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
 Remarks: Slow Recharge. Dup Sample taken. No bolts. Well Box Thread stripped. Needs Replacing.

Signature: [Signature] Page Lot _____

STANTEC CONSULTING
GROUNDWATER SAMPLE FIELD DATA SHEET

Project No. 185702413 Purged By: DO Well I.D.: MW-5
 Client Name: Caltrans Sampled By: DO Sample I.D.: MW-5
 Location: Hegenberger What QA Samples?: _____

Date Purged: 9-21-11 Start (2400hr): 1206 End (2400hr): 825
 Date Sampled: 9-30-11 Sample Time (2400hr): 820

Casing Diameter: 2" _____ 3" _____ 4" 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = 19.34 Casing Volume (gal) = 8.69
 Depth to water (feet) = 6.37 Calculated Purge (gal) = 26.07 (3 casing vols.)
 Water column height (feet) = 12.97 Actual Purge (gal) = 30.90

FIELD MEASUREMENTS

Date	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (umhos/cm)	pH (units)	Color (visual)	ORP DTW (ft)	
<u>9-29-11</u>	<u>1208</u>	<u>0</u>	<u>23.1</u>	<u>1712</u>	<u>7.20</u>	<u>clear</u>	<u>50</u>	
	<u>1214</u>	<u>10</u>	<u>21.5</u>	<u>1699</u>	<u>7.03</u>	<u>grey</u>	<u>47</u>	<u>odour</u>
	<u>1222</u>	<u>20</u>	<u>20.6</u>	<u>1725</u>	<u>7.18</u>	<u>grey</u>	<u>46</u>	<u>S. odour</u>
	<u>1540</u>	<u>30</u>	<u>21.1</u>	<u>1980</u>	<u>7.22</u>	<u>grey</u>	<u>50</u>	<u>S. Odour</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

D.O. mg/l. %

PURGING EQUIPMENT

Well Wizard Bladder Pump Bailer (disposable)
 Active Extraction Well Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: _____ (feet)

SAMPLING EQUIPMENT

WW Bladder Pump Bailer (disposable)
 Sample Port Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated: _____
 Other: _____

Analyses: _____
 Sample Vessel / Preservative: _____ Odor: _____

Well Integrity: _____
 Remarks: Slow Recharge. Well box Thread Stripped. Needs Replacing.

Signature: [Handwritten Signature] Page 1 of _____

APPENDIX C
CERTIFIED ANALYTICAL LABORATORY REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTS



908 North Temperance Ave. ▼ Clovis, CA 93611 ▼ Phone 559.275-2175 ▼ Fax 559.275-4422

NELAP Certification Number: 05233CA (HW)

www.appliance.com

October 21, 2011

Stantec Consulting, Inc.
15575 Los Gatos Boulevard., Bldg C
Los Gatos, California 95032

Attn: Gary Messerotes

Subject: Report of data: Case 65872

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.

Dear Mr. Messerotes:

Seven water samples for project "185702413 Former Caltrans Station" were received September 30, 2011, in good condition. There were labeling discrepancies reported to the client. Written results are being provided on this October 21, 2011, for the requested analyses. All holding times were met.

For the EPA 8015B TPH-Diesel analysis, the samples were extracted according to EPA method 3510C.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the EPA 8015B TPH-Gasoline analysis, the samples were purged according to EPA method 5030B.

No other unusual problems or complications were encountered with this sample set.

If you have any questions or require further information, please contact us at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Sharon Dehmlow, Laboratory Director
APPL, Inc.

SD/cm
Enclosure
cc: File

Number of pages in this report: 36

EPA 8015B TPH Diesel Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station

ARF: 65872

Sample ID: MW-1

APPL ID: AY47674

Sample Collection Date: 9/30/2011

QCG: #TPHD-111007A-160343

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	530 ++	50.0	40.40	ug/L	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: OCTACOSANE (S)	77.8	28-142		%	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (	78.5	49-128		%	10/7/2011	10/19/2011

++(T2M) The analyst has noted that the chromatogram of this sample is mainly lower boiling hydrocarbons.

Quant Method: TPHAOTP.M
Run #: 1018066
Instrument: Apollo
Sequence: 111018
Dilution Factor: 1
Initials: LA

Printed: 10/21/2011 2:24:14 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH Diesel Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: MW-2
Sample Collection Date: 9/30/2011

ARF: 65872
APPL ID: AY47675
QCG: #TPHD-111007A-160343

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	Not detected	50.0	40.40	ug/L	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: OCTACOSANE (S)	79.5	28-142		%	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (	77.8	49-128		%	10/7/2011	10/19/2011

Quant Method: TPHKAOTP.M
Run #: 1018067
Instrument: Apollo
Sequence: 111018
Dilution Factor: 1
Initials: LA

Printed: 10/21/2011 2:24:14 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH Diesel Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station

Sample ID: MW-3
Sample Collection Date: 9/30/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 65872
APPL ID: AY47676
QCG: #TPHD-111007A-160343

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	900 ++	50.0	40.40	ug/L	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: OCTACOSANE (S)	77.7	28-142		%	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (	77.5	49-128		%	10/7/2011	10/19/2011

++(T2M) The analyst has noted that the chromatogram of this sample is mainly lower boiling hydrocarbons.

Quant Method: TPHKAOTP.M
Run #: 1018068
Instrument: Apollo
Sequence: 111018
Dilution Factor: 1
Initials: LA

Printed: 10/21/2011 2:24:14 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH Diesel Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: MW-4
Sample Collection Date: 9/30/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 65872
APPL ID: AY47677
QCG: #TPHD-111007A-160343

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	Not detected	50.0	40.40	ug/L	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: OCTACOSANE (S)	78.0	28-142		%	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (	77.8	49-128		%	10/7/2011	10/19/2011

Quant Method: TPHAOTP.M
Run #: 1018089
Instrument: Apollo
Sequence: 111018
Dilution Factor: 1
Initials: LA

Printed: 10/21/2011 2:24:14 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH Diesel Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: MW-5
Sample Collection Date: 9/30/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 65872
APPL ID: AY47678
QCG: #TPHD-111007A-160343

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	440 ++	50.0	40.40	ug/L	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: OCTACOSANE (S)	79.8	28-142		%	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (	80.0	49-128		%	10/7/2011	10/19/2011

++(T2M) The analyst has noted that the chromatogram of this sample is mainly lower boiling hydrocarbons.

Quant Method: TPHAOTP.M
Run #: 1018070
Instrument: Apollo
Sequence: 111018
Dilution Factor: 1
Initials: LA

Printed: 10/21/2011 2:24:14 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH Diesel Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: EB-1
Sample Collection Date: 9/30/2011

ARF: 65872
APPL ID: AY47679
QCG: #TPHD-111007A-160343

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	Not detected	50.0	40.40	ug/L	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: OCTACOSANE (S)	80.3	28-142		%	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (	79.4	49-128		%	10/7/2011	10/19/2011

Quant Method: TPHAOTP.M
Run #: 1018071
Instrument: Apollo
Sequence: 111018
Dilution Factor: 1
Initials: LA

Printed: 10/21/2011 2:24:14 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8015B TPH Diesel Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: Dup-1
Sample Collection Date: 9/30/2011

ARF: 65872
APPL ID: AY47680
QCG: #TPHD-111007A-160343

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	Not detected	50.0	40.40	ug/L	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: OCTACOSANE (S)	81.8	28-142		%	10/7/2011	10/19/2011
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (	79.7	49-128		%	10/7/2011	10/19/2011

Quant Method: TPHAOTP.M
Run #: 1018072
Instrument: Apollo
Sequence: 111018
Dilution Factor: 1
Initials: LA

Printed: 10/21/2011 2:24:14 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B BTEX Oxy W - UST

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station

ARF: 65872

Sample ID: MW-1

APPL ID: AY47674

Sample Collection Date: 9/30/2011

QCG: #26UW-111007AM-160016

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/7/2011	10/7/2011
EPA 8260B	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/7/2011	10/7/2011
EPA 8260B	BENZENE	14	0.4	0.16	ug/L	10/7/2011	10/7/2011
EPA 8260B	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/7/2011	10/7/2011
EPA 8260B	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	ETHYLBENZENE	0.36 J	0.6	0.23	ug/L	10/7/2011	10/7/2011
EPA 8260B	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/7/2011	10/7/2011
EPA 8260B	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/7/2011	10/7/2011
EPA 8260B	TOLUENE	6.5	1.1	0.17	ug/L	10/7/2011	10/7/2011
EPA 8260B	XYLENES	6.9	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	105	75-125		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: 4-BROMOFLUOROB	108	62-139		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: DIBROMOFLUOROME	99.6	75-125		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	75-125		%	10/7/2011	10/7/2011

J = Estimated value.

Quant Method: M26UW.M
Run #: 1007M21
Instrument: Max
Sequence: M111005
Dilution Factor: 1
Initials: DG

Printed: 10/14/2011 12:09:34 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B BTEX Oxy W - UST

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station

ARF: 65872

Sample ID: MW-2

APPL ID: AY47675

Sample Collection Date: 9/30/2011

QCG: #26UW-111004AM-159809

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/4/2011	10/4/2011
EPA 8260B	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/4/2011	10/4/2011
EPA 8260B	BENZENE	Not detected	0.4	0.16	ug/L	10/4/2011	10/4/2011
EPA 8260B	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/4/2011	10/4/2011
EPA 8260B	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/4/2011	10/4/2011
EPA 8260B	ETHYLBENZENE	Not detected	0.6	0.23	ug/L	10/4/2011	10/4/2011
EPA 8260B	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/4/2011	10/4/2011
EPA 8260B	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/4/2011	10/4/2011
EPA 8260B	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/4/2011	10/4/2011
EPA 8260B	TOLUENE	Not detected	1.1	0.17	ug/L	10/4/2011	10/4/2011
EPA 8260B	XYLENES	Not detected	0.5	0.19	ug/L	10/4/2011	10/4/2011
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	101	75-125		%	10/4/2011	10/4/2011
EPA 8260B	SURROGATE: 4-BROMOFLUROBE	94.4	62-139		%	10/4/2011	10/4/2011
EPA 8260B	SURROGATE: DIBROMOFLUROME	101	75-125		%	10/4/2011	10/4/2011
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	75-125		%	10/4/2011	10/4/2011

Quant Method: M26UW.M
Run #: 1004M24
Instrument: Max
Sequence: M111004
Dilution Factor: 1
Initials: STC

Printed: 10/14/2011 12:09:34 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B BTEX Oxy W - UST

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station

ARF: 65872

Sample ID: MW-3

APPL ID: AY47676

Sample Collection Date: 9/30/2011

QCG: #26UW-111007AM-160016

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/7/2011	10/7/2011
EPA 8260B	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/7/2011	10/7/2011
EPA 8260B	BENZENE	350 E	0.4	0.16	ug/L	10/7/2011	10/7/2011
EPA 8260B	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/7/2011	10/7/2011
EPA 8260B	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	ETHYLBENZENE	1.1	0.6	0.23	ug/L	10/7/2011	10/7/2011
EPA 8260B	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/7/2011	10/7/2011
EPA 8260B	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/7/2011	10/7/2011
EPA 8260B	TOLUENE	16	1.1	0.17	ug/L	10/7/2011	10/7/2011
EPA 8260B	XYLENES	14	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	107	75-125		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: 4-BROMOFLUOROB	110	62-139		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: DIBROMOFLUOROME	97.7	75-125		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	103	75-125		%	10/7/2011	10/7/2011

E = The reported value exceeds linear range.

Quant Method: M26UW.M
Run #: 1007M22
Instrument: Max
Sequence: M111005
Dilution Factor: 1
Initials: DG

Printed: 10/14/2011 12:09:34 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B BTEX Oxy W - UST - Dilution

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: MW-3
Sample Collection Date: 9/30/2011

ARF: 65872
APPL ID: AY47676
QCG: #26UW-111007AM-160016

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	390	2.0	0.80	ug/L	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	98.7	75-125		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: 4-BROMOFLUOROB	94.1	62-139		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: DIBROMOFLUOROME	95.8	75-125		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	97.2	75-125		%	10/12/2011	10/12/2011

Quant Method: M26UW.M
Run #: 1012M19
Instrument: Max
Sequence: M111011
Dilution Factor: 5
Initials: SV

Printed: 10/14/2011 12:09:34 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B BTEX Oxy W - UST

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes

Project: 185702413 Former Caltrans Station

Sample ID: MW-4

Sample Collection Date: 9/30/2011

ARF: 65872

APPL ID: AY47677

QCG: #26UW-111012AM-160127

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/12/2011	10/12/2011
EPA 8260B	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/12/2011	10/12/2011
EPA 8260B	BENZENE	Not detected	0.4	0.16	ug/L	10/12/2011	10/12/2011
EPA 8260B	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/12/2011	10/12/2011
EPA 8260B	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/12/2011	10/12/2011
EPA 8260B	ETHYLBENZENE	Not detected	0.6	0.23	ug/L	10/12/2011	10/12/2011
EPA 8260B	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/12/2011	10/12/2011
EPA 8260B	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/12/2011	10/12/2011
EPA 8260B	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/12/2011	10/12/2011
EPA 8260B	TOLUENE	Not detected	1.1	0.17	ug/L	10/12/2011	10/12/2011
EPA 8260B	XYLENES	Not detected	0.5	0.19	ug/L	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	106	75-125		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: 4-BROMOFLUOROBE	95.2	62-139		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: DIBROMOFLUOROME	104	75-125		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	102	75-125		%	10/12/2011	10/12/2011

Quant Method: M26UW.M
Run #: 1012M17
Instrument: Max
Sequence: M111011
Dilution Factor: 1
Initials: SV

Printed: 10/14/2011 12:09:35 PM
APPL-F1-SC-NoMG-REG MDLs

EPA 8260B BTEX Oxy W - UST

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station

ARF: 65872

Sample ID: MW-5

APPL ID: AY47678

Sample Collection Date: 9/30/2011

QCG: #26UW-111012AM-160127

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/12/2011	10/12/2011
EPA 8260B	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/12/2011	10/12/2011
EPA 8260B	BENZENE	0.34 J	0.4	0.16	ug/L	10/12/2011	10/12/2011
EPA 8260B	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/12/2011	10/12/2011
EPA 8260B	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/12/2011	10/12/2011
EPA 8260B	ETHYLBENZENE	Not detected	0.6	0.23	ug/L	10/12/2011	10/12/2011
EPA 8260B	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/12/2011	10/12/2011
EPA 8260B	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/12/2011	10/12/2011
EPA 8260B	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/12/2011	10/12/2011
EPA 8260B	TOLUENE	0.52 J	1.1	0.17	ug/L	10/12/2011	10/12/2011
EPA 8260B	XYLENES	1.8	0.5	0.19	ug/L	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	99.3	75-125		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: 4-BROMOFLUOROB	91.9	62-139		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: DIBROMOFLUOROME	94.6	75-125		%	10/12/2011	10/12/2011
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.4	75-125		%	10/12/2011	10/12/2011

J = Estimated value.

Quant Method: M26UW.M
Run #: 1012M18
Instrument: Max
Sequence: M111011
Dilution Factor: 1
Initials: SV

Printed: 10/14/2011 12:09:35 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B BTEX Oxy W - UST

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: EB-1
Sample Collection Date: 9/30/2011

ARF: 65872
APPL ID: AY47679
QCG: #26UW-111007AM-160016

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/7/2011	10/7/2011
EPA 8260B	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/7/2011	10/7/2011
EPA 8260B	BENZENE	Not detected	0.4	0.16	ug/L	10/7/2011	10/7/2011
EPA 8260B	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/7/2011	10/7/2011
EPA 8260B	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	ETHYLBENZENE	Not detected	0.6	0.23	ug/L	10/7/2011	10/7/2011
EPA 8260B	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/7/2011	10/7/2011
EPA 8260B	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/7/2011	10/7/2011
EPA 8260B	TOLUENE	Not detected	1.1	0.17	ug/L	10/7/2011	10/7/2011
EPA 8260B	XYLENES	Not detected	0.6	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	108	75-125		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: 4-BROMOFLUOROB	105	62-139		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: DIBROMOFLUOROME	99.4	75-125		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	102	75-125		%	10/7/2011	10/7/2011

Quant Method: M26UW.M
Run #: 1007M25
Instrument: Max
Sequence: M111005
Dilution Factor: 1
Initials: DG

Printed: 10/14/2011 12:09:35 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B BTEX Oxy W - UST

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: Dup-1
Sample Collection Date: 9/30/2011

ARF: 65872
APPL ID: AY47680
QCG: #26UW-111007AM-160016

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
EPA 8260B	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/7/2011	10/7/2011
EPA 8260B	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/7/2011	10/7/2011
EPA 8260B	BENZENE	Not detected	0.4	0.16	ug/L	10/7/2011	10/7/2011
EPA 8260B	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/7/2011	10/7/2011
EPA 8260B	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	ETHYLBENZENE	Not detected	0.6	0.23	ug/L	10/7/2011	10/7/2011
EPA 8260B	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/7/2011	10/7/2011
EPA 8260B	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/7/2011	10/7/2011
EPA 8260B	TOLUENE	Not detected	1.1	0.17	ug/L	10/7/2011	10/7/2011
EPA 8260B	XYLENES	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: 1,2-DICHLOROETHAN	106	75-125		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: 4-BROMOFLUROBE	106	62-139		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: DIBROMOFLUOROME	96.9	75-125		%	10/7/2011	10/7/2011
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	103	75-125		%	10/7/2011	10/7/2011

Quant Method: M26UW.M
Run #: 1007M26
Instrument: Max
Sequence: M111005
Dilution Factor: 1
Initials: DG

Printed: 10/14/2011 12:09:35 PM
APPL-F1-SC-NoMC-REG MDLs

Gas-Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: MW-1
Sample Collection Date: 09/30/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 65872
APPL ID: AY47674
QCG: #GAS-11 1005A-160102

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
8015	GASOLINE	950	20.0	8.60	ug/L	10/06/11	10/06/11
8015	SURROGATE: BFB-FID (S)	115	70-130		%	10/06/11	10/06/11

Quant Method: HGAS.M
Run #: 1005H17
Instrument: Harpo
Sequence: 110217
Dilution Factor: 1
Initials: LF

Printed: 10/13/11 10:59:53 AM
APPL-F1-SC-NoMC-REG MDLs

Gas-Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: MW-2
Sample Collection Date: 09/30/11

ARF: 65872
APPL ID: AY47675
QCG: #GAS-111005A-160102

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
8015	GASOLINE	130	20.0	8.60	ug/L	10/06/11	10/06/11
8015	SURROGATE: BFB-FID (S)	87.9	70-130		%	10/06/11	10/06/11

Quant Method: HGAS.M
Run #: 1005H18
Instrument: Harpo
Sequence: 110217
Dilution Factor: 1
Initials: LF

Printed: 10/13/11 10:59:53 AM
APPL-F1-SC-NoMC-REG MDLs

Gas-Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Attn: Gary Messeroles
Project: 185702413 Former Caltrans Station

Sample ID: MW-3
Sample Collection Date: 09/30/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 65872
APPL ID: AY47676
QCG: #GAS-111006A-160101

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
8015	GASOLINE	3800	200.0	86.00	ug/L	10/06/11	10/06/11
8015	SURROGATE: BFB-FID (S)	77.4	70-130		%	10/06/11	10/06/11

Quant Method: HGAS.M
Run #: 1006H06
Instrument: Harpo
Sequence: 110217
Dilution Factor: 10
Initials: LF

Printed: 10/13/11 10:59:53 AM
APPL-F1-SC-NoMC-REG MDLs

Gas-Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: MW-4
Sample Collection Date: 09/30/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 65872
APPL ID: AY47677
QCG: #GAS-111005A-160102

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
8015	GASOLINE	14 J	20.0	8.60	ug/L	10/06/11	10/06/11
8015	SURROGATE: BFB-FID (S)	107	70-130		%	10/06/11	10/06/11

J = Estimated value.

Quant Method: HGAS.M
Run #: 1005H23
Instrument: Harpo
Sequence: 110217
Dilution Factor: 1
Initials: LF

Printed: 10/13/11 10:59:53 AM
APPL-F1-SC-NoMC-REG MDLs

Gas-Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: MW-5
Sample Collection Date: 09/30/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 65872
APPL ID: AY47678
QCG: #GAS-111005A-160102

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
8015	GASOLINE	960	20.0	8.60	ug/L	10/06/11	10/06/11
8015	SURROGATE: BFB-FID (S)	93.8	70-130		%	10/06/11	10/06/11

Quant Method: HGAS.M
Run #: 1005H20
Instrument: Harpo
Sequence: 110217
Dilution Factor: .1
Initials: LF

Printed: 10/13/11 10:59:53 AM
APPL-F1-SC-NoMC-REG MDLs

Gas-Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station
Sample ID: EB-1
Sample Collection Date: 09/30/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 65872
APPL ID: AY47679
QCG: #GAS-111005A-160102

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
8015	GASOLINE	Not detected	20.0	8.60	ug/L	10/06/11	10/08/11
8015	SURROGATE: BFB-FID (S)	96.2	70-130		%	10/06/11	10/08/11

Quant Method: HGAS.M
Run #: 1005H21
Instrument: Harpo
Sequence: 110217
Dilution Factor: 1
Initials: LF

Printed: 10/13/11 10:59:53 AM
APPL-F1-SC-NoMC-REG MDLs

Gas-Water

Stantec Consulting, Inc.
15575 Los Gatos Blvd., Bldg C
Los Gatos, CA 95032

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Gary Messerotes
Project: 185702413 Former Caltrans Station

ARF: 65872

Sample ID: Dup-1

APPL ID: AY47680

Sample Collection Date: 09/30/11

QCG: #GAS-111005A-160102

Method	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
8015	GASOLINE	15 J	20.0	8.60	ug/L	10/06/11	10/06/11
8015	SURROGATE: BFB-FID (S)	79.8	70-130		%	10/06/11	10/06/11

J = Estimated value.

Quant Method: HGAS.M
Run #: 1005H22
Instrument: Harpo
Sequence: 110217
Dilution Factor: 1
Initials: LF

Printed: 10/13/11 10:59:53 AM
APPL-F1-SG-NoMC-REG MDLs

Method Blank
EPA 8015B TPH Diesel Water

Blank Name/QCG: 111007W-47674 - 160343
Batch ID: #TPHD-111007A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	Not detected	50.0	40.40	ug/L	10/7/2011	10/19/2011
BLANK	SURROGATE: OCTACOSANE (S)	75.2	28-142		%	10/7/2011	10/19/2011
BLANK	SURROGATE: ORTHO-TERPHENYL (	73.4	49-128		%	10/7/2011	10/19/2011

Quant Method: TPHKAOTP.
Run #: 1018064
Instrument: Apollo
Sequence: 111018
Initials: LA

GC SC-Blank-REG MDLs
Printed: 10/21/2011 2:24:16 PM

Laboratory Control Spike Recovery
EPA 8015B TPH Diesel Water

APPL ID: 111007W-47674 LCS - 160343
 Batch ID: #TPHD-111007A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1240	62.0	61-143
SURROGATE: OCTACOSANE (S)	150	138	92.0	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	129	86.0	49-128

Comments:

Primary	SPK
Quant Method :	TPHAOTP.M
Extraction Date :	10/7/2011
Analysis Date :	10/20/2011
Instrument :	Apollo
Run :	1020006
Initials :	LA

Printed: 10/21/2011 2:24:10 PM

APPL Standard LCS

Method Blank
EPA 8260B BTEX Oxy W - UST

Blank Name/QCG: 111004W-47675 - 159809
Batch ID: #26UW-111004AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/4/2011	10/4/2011
BLANK	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/4/2011	10/4/2011
BLANK	BENZENE	Not detected	0.4	0.16	ug/L	10/4/2011	10/4/2011
BLANK	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/4/2011	10/4/2011
BLANK	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/4/2011	10/4/2011
BLANK	ETHYLBENZENE	Not detected	0.6	0.23	ug/L	10/4/2011	10/4/2011
BLANK	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/4/2011	10/4/2011
BLANK	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/4/2011	10/4/2011
BLANK	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/4/2011	10/4/2011
BLANK	TOLUENE	Not detected	1.1	0.17	ug/L	10/4/2011	10/4/2011
BLANK	XYLENES	Not detected	0.5	0.19	ug/L	10/4/2011	10/4/2011
BLANK	SURROGATE: 1,2-DICHLOROETHAN	100	75-125		%	10/4/2011	10/4/2011
BLANK	SURROGATE: 4-BROMOFLUOROBEN	95.5	62-139		%	10/4/2011	10/4/2011
BLANK	SURROGATE: DIBROMOFLUOROME	99.9	75-125		%	10/4/2011	10/4/2011
BLANK	SURROGATE: TOLUENE-D8 (S)	102	75-125		%	10/4/2011	10/4/2011

Quant Method: M26UW.M
Run #: 1004M21
Instrument: Max
Sequence: M111004
Initials: STC

GC SC-Blank-REG MDLs
Printed: 10/14/2011 12:08:25 PM

Method Blank
EPA 8260B BTEX Oxy W - UST

Blank Name/QCG: 111007W-47674 - 160016
Batch ID: #26UW-111007AM

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/7/2011	10/7/2011
BLANK	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/7/2011	10/7/2011
BLANK	BENZENE	Not detected	0.4	0.16	ug/L	10/7/2011	10/7/2011
BLANK	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/7/2011	10/7/2011
BLANK	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
BLANK	ETHYLBENZENE	Not detected	0.6	0.23	ug/L	10/7/2011	10/7/2011
BLANK	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
BLANK	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/7/2011	10/7/2011
BLANK	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/7/2011	10/7/2011
BLANK	TOLUENE	Not detected	1.1	0.17	ug/L	10/7/2011	10/7/2011
BLANK	XYLENES	Not detected	0.5	0.19	ug/L	10/7/2011	10/7/2011
BLANK	SURROGATE: 1,2-DICHLOROETHAN	103	75-125		%	10/7/2011	10/7/2011
BLANK	SURROGATE: 4-BROMOFLUOROBEN	104	62-139		%	10/7/2011	10/7/2011
BLANK	SURROGATE: DIBROMOFLUOROME	98.3	75-125		%	10/7/2011	10/7/2011
BLANK	SURROGATE: TOLUENE-D8 (S)	105	75-125		%	10/7/2011	10/7/2011

Quant Method: M26UW.M
Run #: 1007M07
Instrument: Max
Sequence: M111005
Initials: DG

GC SC-Blank-REG MDLs
Printed: 10/14/2011 12:08:25 PM

Method Blank
EPA 8260B BTEX Oxy W - UST

Blank Name/QCG: 111012W-47677 - 160127
 Batch ID: #26UW-111012AM

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	1,2-DICHLOROETHANE	Not detected	0.6	0.14	ug/L	10/12/2011	10/12/2011
BLANK	1,2-ETHYLENE DIBROMIDE	Not detected	0.6	0.20	ug/L	10/12/2011	10/12/2011
BLANK	BENZENE	Not detected	0.4	0.16	ug/L	10/12/2011	10/12/2011
BLANK	DI-ISOPROPYL ETHER	Not detected	0.5	0.16	ug/L	10/12/2011	10/12/2011
BLANK	ETHYL-TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/12/2011	10/12/2011
BLANK	ETHYLBENZENE	Not detected	0.6	0.23	ug/L	10/12/2011	10/12/2011
BLANK	METHYL TERT-BUTYL ETHER	Not detected	0.5	0.19	ug/L	10/12/2011	10/12/2011
BLANK	TERT-AMYL METHYL ETHER	Not detected	0.5	0.14	ug/L	10/12/2011	10/12/2011
BLANK	TERT-BUTYL ALCOHOL	Not detected	25.0	10.00	ug/L	10/12/2011	10/12/2011
BLANK	TOLUENE	Not detected	1.1	0.17	ug/L	10/12/2011	10/12/2011
BLANK	XYLENES	Not detected	0.5	0.19	ug/L	10/12/2011	10/12/2011
BLANK	SURROGATE: 1,2-DICHLOROETHAN	101	75-125		%	10/12/2011	10/12/2011
BLANK	SURROGATE: 4-BROMOFLUOROBEN	96.1	62-139		%	10/12/2011	10/12/2011
BLANK	SURROGATE: DIBROMOFLUOROME	98.8	75-125		%	10/12/2011	10/12/2011
BLANK	SURROGATE: TOLUENE-D8 (S)	97.1	75-125		%	10/12/2011	10/12/2011

Quant Method: M86DODW.
 Run #: 1012M14
 Instrument: Max
 Sequence: M111011
 Initials: SV

GC SC-Blank-REG MDLs
 Printed: 10/14/2011 12:08:25 PM

Laboratory Control Spike Recoveries

EPA 8260B BTEX Oxy W - UST

APPL ID: 111004W-47675 LCS - 159809
 Batch ID: #26UW-111004AM

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,2-DICHLOROETHANE	10.00	10.2	10.3	102	103	68-127	0.98	20
1,2-ETHYLENE DIBROMIDE	10.00	10.4	10.7	104	107	70-130	2.8	20
BENZENE	10.00	10.4	10.7	104	107	75-125	2.8	20
DI-ISOPROPYL ETHER	10.00	10.4	10.8	104	108	70-130	3.8	20
ETHYL-TERT-BUTYL ETHER	10.00	10.4	10.2	104	102	70-130	1.9	20
ETHYLBENZENE	10.00	11.0	11.0	110	110	75-125	0.0	20
METHYL TERT-BUTYL ETHER	10.00	10.3	10.9	103	109	70-130	5.7	20
TERT-AMYL METHYL ETHER	10.00	10.5	11.0	105	110	70-130	4.7	20
TERT-BUTYL ALCOHOL	125	109	132	87.2	106	49-167	19.1	20
TOLUENE	10.00	10.6	11.0	106	110	74-125	3.7	20
XYLENES	30.0	30.6	30.7	102	102	70-130	0.33	20

SURROGATE: 1,2-DICHLOROETHANE-D	17.1	16.4	16.6	95.7	96.9	75-125		
SURROGATE: 4-BROMOFLUOROBENZE	19.8	20.2	20.1	102	101	62-139		
SURROGATE: DIBROMOFLUOROMETH	16.9	17.0	16.9	101	100	75-125		
SURROGATE: TOLUENE-D8 (S)	18.1	18.1	17.9	100	98.9	75-125		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	M26UW.M	M26UW.M
Extraction Date :	10/4/2011	10/4/2011
Analysis Date :	10/4/2011	10/4/2011
Instrument :	Max	Max
Run :	1004M18	1004M19
Initials :	STC	

Laboratory Control Spike Recovery
EPA 8260B BTEX Oxy W - UST

APPL ID: 111007W-47674 LCS - 160016
 Batch ID: #26UW-111007AM

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,2-DICHLOROETHANE	10.00	9.18	91.8	68-127
1,2-ETHYLENE DIBROMIDE	10.00	9.24	92.4	70-130
BENZENE	10.00	9.48	94.8	75-125
DI-ISOPROPYL ETHER	10.00	9.22	92.2	70-130
ETHYL-TERT-BUTYL ETHER	10.00	10.3	103	70-130
ETHYLBENZENE	10.00	9.82	98.2	75-125
METHYL TERT-BUTYL ETHER	10.00	9.02	90.2	70-130
TERT-AMYL METHYL ETHER	10.00	9.18	91.8	70-130
TERT-BUTYL ALCOHOL	125	126	101	49-167
TOLUENE	10.00	9.55	95.5	74-125
XYLENES	30.0	30.5	102	70-130
<hr/>				
SURROGATE: 1,2-DICHLOROETHANE-D	27.6	27.6	99.9	75-125
SURROGATE: 4-BROMOFLUOROBENZ	31.0	33.7	109	62-139
SURROGATE: DIBROMOFLUOROMETH	28.4	29.1	102	75-125
SURROGATE: TOLUENE-D8 (S)	30.8	30.8	100	75-125

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	M26UW.M
Extraction Date :	10/7/2011
Analysis Date :	10/7/2011
Instrument :	Max
Run :	1007M03
Initials :	DG

Printed: 10/14/2011 12:17:47 PM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B BTEX Oxy W - UST

APPL ID: 111012W-47677 LCS - 160127
 Batch ID: #26UW-111012AM

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,2-DICHLOROETHANE	10.00	9.87	98.7	68-127
1,2-ETHYLENE DIBROMIDE	10.00	9.40	94.0	70-130
BENZENE	10.00	9.45	94.5	75-125
DI-ISOPROPYL ETHER	10.00	9.61	96.1	70-130
ETHYL-TERT-BUTYL ETHER	10.00	9.01	90.1	70-130
ETHYLBENZENE	10.00	10.4	104	75-125
METHYL TERT-BUTYL ETHER	10.00	9.48	94.8	70-130
TERT-AMYL METHYL ETHER	10.00	9.58	95.8	70-130
TERT-BUTYL ALCOHOL	125	114	91.2	49-167
TOLUENE	10.00	10.0	100	74-125
XYLENES	30.0	32.4	108	70-130

SURROGATE: 1,2-DICHLOROETHANE-D	34.1	34.1	100	75-125
SURROGATE: 4-BROMOFLUOROBENZ	32.3	32.3	100	62-139
SURROGATE: DIBROMOFLUOROMETH	31.0	31.0	100	75-125
SURROGATE: TOLUENE-D8 (S)	37.5	37.5	99.9	75-125

Comments:

Primary	SPK
Quant Method :	M26UW.M
Extraction Date :	10/12/2011
Analysis Date :	10/12/2011
Instrument :	Max
Run :	1012M12
Initials :	SV

Printed: 10/14/2011 12:17:47 PM

APPL Standard LCS

Method Blank
Gas-Water

Blank Name/QCG: 111006W-47676 - 160101
Batch ID: #GAS-111006A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE	Not detected	20.0	8.60	ug/L	10/06/11	10/06/11
BLANK	SURROGATE: BFB-FID (S)	75.9	70-130		%	10/06/11	10/06/11

Quant Method:HGAS.M
Run #:1006H05
Instrument:Harpo
Sequence:110217
Initials:LF

GC SC-Blank-REG MDLs
Printed: 10/13/11 10:59:45 AM

Method Blank
Gas-Water

Blank Name/QCG: 111005W-47674 - 160102
Batch ID: #GAS-111005A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	PQL	MDL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE	Not detected	20.0	8.60	ug/L	10/05/11	10/05/11
BLANK	SURROGATE: BFB-FID (S)	90.4	70-130		%	10/05/11	10/05/11

Quant Method: HGAS.M
Run #: 1005H15
Instrument: Harpo
Sequence: 110217
Initials: LF

GC SC-Blank-REG MDLs
Printed: 10/13/11 10:59:45 AM

Laboratory Control Spike Recoveries

Gas-Water

APPL ID: 111005W-47674 LCS - 160102
 Batch ID: #GAS-111005A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE	300	323	313	108	104	73-120	3.1	25
SURROGATE: BFB-FID (S)	20.0	17.7	20.0	88.5	100	70-130		

Comments:

	<u>SPK</u>	<u>DUP</u>
Quant Method :	HGAS.M	HGAS.M
Extraction Date :	10/05/11	10/05/11
Analysis Date :	10/05/11	10/05/11
Instrument :	Harpo	Harpo
Run :	1005H13	1005H14
Initials :	LF	

Printed: 10/13/11 10:59:46 AM
 APPL Standard LCSD

Laboratory Control Spike Recoveries

Gas-Water

APPL ID: 111006W-47676 LCS - 160101
 Batch ID: #GAS-111006A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE	300	332	334	111	111	73-120	0.60	25
SURROGATE: BFB-FID (S)	20.0	16.5	17.6	82.5	88.0	70-130		

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	HGAS.M	HGAS.M
Extraction Date :	10/06/11	10/06/11
Analysis Date :	10/06/11	10/06/11
Instrument :	Harpo	Harpo
Run :	1006H03	1006H04
Initials :	LF	

Printed: 10/13/11 10:59:46 AM
 APPL Standard LCSD

2.0°C

STANTEC Los Gatos Office

15575 Los Gatos Blvd., Bldg C
Los Gatos, CA

TEL: (408) 356-6124 FAX: (408) 356-6138

STANTEC CONSULTING

Stantec Contact(s) for Invoice: Gary Messerotes
eMAIL: gary.messerotes@stantec.com


STANTEC Project #

185702413

CHAIN OF CUSTODY RECORD

DATE: 9-30-11

PAGE: _____ OF _____

Project Name: Former Caltrans Station	Sampler(s) Printed Name: Devon Owens	Laboratory: APPL, Inc. 908 N. Temperance Avenue, Clovis, CA 93611 (559) 275-2175
Address: 555 Hegenberger, Oakland, CA	Sampler(s) Signature: 	Lab Use Only: [] [] [] [] [] []

Turn-around Time (Business Days):
 10 DAYS 5 DAYS 72 HR 48 HR 24 HR 24 HR
 OTHER

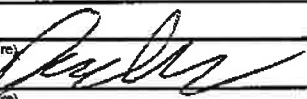
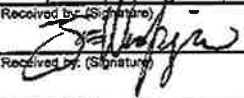

Special Instructions or Notes: Temperature Upon Receipt (C): _____

HCL	HCL	None	REQUESTED ANALYSIS
-----	-----	------	---------------------------

EDF Required: T0600101696

Fuel Oxygenates list includes: BTEX, EDB, EDC, MTBE, TAME, ETBE, DIPE, TBA, and EtOH)

LAB USE ONLY	Field Sample Identification	SAMPLING		MAT-RX	No. of Cont.	Pre-serve	Fuel Oxygenates (FULL LIST) by 8260B			Other:	Laboratory Notes
		DATE	TIME				8260B	TPH-GRO by 8015M silica gel cleanup	TPH-DRO by 8015M silica gel cleanup		
	MW-1	9-30-11	750	W	5		X	X	X		
	MW-2		835				X	X	X		
	MW-3		845				X	X	X		
	MW-4		800				X	X	X		
	MW-5		820				X	X	X		
	EB-1		740				X	X	X		
	Dup-1	↓	805	↓	↓		X	X	X		

Relinquished by: (Signature) 	Date: <u>9-30-11</u>	Time: <u>1252</u>	Received by: (Signature) 	Date: <u>9.30.11</u>	Time: <u>1732</u>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature) 	Date: <u>09/30/11</u>	Time: <u>1709</u>