Kelly C. Esters
Property Specialist
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6101 Bollinger Canyon Road
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August 8, 2012

Mr. Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Dear Mr. Detterman:

Attached for your review is the *First Semiannual 2012 Groundwater Monitoring Report* for former Chevron Branded Service Station 9-9708, located at 5910 MacArthur Boulevard in Oakland, California. This report was prepared by ARCADIS, upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me.

Sincerely,

Kelly C Esters

Kelly Esters
Chevron Environmental Management Company

ARCADIS U.S., Inc.
320 Commerce
Suite 200
Irvine
California 92602
Tel 714.508.2657
Fax 714.730.9345
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ENVIRONMENT

Mr. Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject:
First Semiannual 2012 Groundwater Monitoring Report
Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard
Oakland, California
Fuel Leak Case No. RO0000124

Date:
August 8, 2012

Contact:
Toni DeMayo

Phone:
714.508.2657

Email:
toni.demayo@arcadis-us.com

Our ref:
B0060901.9708

Dear Mr. Detterman:

ARCADIS has prepared this *First Semiannual 2012 Groundwater Monitoring Report* on behalf of Chevron Environmental Management Company (CEMC) to document the results of groundwater monitoring and sampling at former Chevron Service Station 9-9708, located at 5910 MacArthur Boulevard in Oakland, California (Figure 1).

Groundwater Monitoring and Sampling

Groundwater monitoring and sampling was performed by Blaine Tech Services, Inc. (BTS) of San Jose, California on June 21, 2012. The groundwater monitoring and sampling program consists of water level elevation monitoring, sample collection, and chemical analysis of samples for six monitoring wells (MW-1 through MW-6). Monitoring well MW-6 is located within a parking spot on MacArthur Boulevard and was also inaccessible during this monitoring and sampling event, due to a parked car. The BTS groundwater monitoring and sample package is presented in Attachment 1. Separate phase hydrocarbons (SPH) were not observed during the first semiannual 2012 monitoring and sampling event, nor have they historically been observed at the site.

Groundwater Flow

Depth-to-water measurements were subtracted from surveyed top of casing elevations to calculate the groundwater elevation at each monitoring well. Depth-to-water measurements and calculated groundwater elevations are presented in Table 1. Calculated groundwater elevation data was used to construct a groundwater elevation contour map of the site, presented as Figure 2.

Laboratory Analysis

Subsequent to collection, samples were packed on ice, cooled to approximately 4 degrees Celsius (°C) and shipped under appropriate chain-of-custody protocols for analysis to Test America Laboratories, Inc. of Irvine, California, a California Department of Public Health certified analytical laboratory. Groundwater samples were screened for the following analytes per the parameters listed:

- Total petroleum hydrocarbons as motor oil (TPH-MO) [C_{24}-C_{44}] and total petroleum hydrocarbons as diesel (TPH-DRO) [C_{13}-C_{23}] by United States Environmental Protection Agency (USEPA) Method 8015B, with silica gel clean-up

- Total petroleum hydrocarbons as gasoline (TPH-GRO) [C_4-C_{12}] by USEPA Method 8015B

- Benzene, toluene, ethylbenzene and total xylenes (BTEX) by USEPA Method 8260B

- Methyl tertiary butyl ether (MTBE) and ethanol by USEPA Method 8260B

A quality assurance/quality control (QA/QC) sample, inclusive of a trip blank, was submitted for laboratory analysis. The trip blank sample was analyzed for TPH-GRO, BTEX, MTBE and ethanol.

The analytical results of the groundwater samples collected during the first semiannual 2012 sampling event are consistent with the results of recent semiannual groundwater sampling events. The analytical sample concentrations are summarized in Table 1. A concentration map of TPH-MO, TPH-DRO, and TPH-GRO is presented as Figure 3. The laboratory analytical report and chain-of-custody record for the quarterly groundwater sampling event are included in Attachment 2.

The historical groundwater monitoring and sampling data and the historical waste oil groundwater sampling data are presented in Attachment 3.

Summary and Conclusions

- Groundwater flowed to the west across the site, at an approximate horizontal hydraulic gradient of 0.030 feet per foot (ft/ft)
- Concentrations of petroleum hydrocarbon constituents detected in groundwater samples collected from the well network were consistent with the results of recent sampling events

Sincerely,

ARCADIS U.S., Inc.

Toni DeMayo
Project Geologist

Melissa Blanchette, PG (CA 8531)
Principal Geologist

Enclosures:

Figure 1	Site Plan
Figure 2	Groundwater Elevation Contour Map - First Semiannual 2012
Figure 3	Concentration Map – First Semiannual 2012
Table 1	Groundwater Monitoring Data and Analytical Results
Attachment 1	Groundwater Monitoring and Sampling Field Data Sheets
Attachment 2	Laboratory Analytical Report and Chain-of-Custody Record
Attachment 3	Historical Monitoring and Sampling Data

Copies:

Ms. Kelly Esters – CEMC, electronic copy
Mr. Nisson Saidon, Property Owner

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Tables

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 9-9708
5910 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Location	Date	*TOC*	*DTW*	*GWE*	*TPH-MO*	*TPH-DRO*	*TPH-GRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*MTBE*	*Ethanol*
	Units	*(ft amsl)*	*(ft)*	*(ft amsl)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*
MW-1	06/13/11	97.52	11.25	86.27	<41	75	<50	<0.5	<0.5	<0.5	<0.5	13	<50
MW-1	12/02/11	97.52	12.82	84.70	<520	<520	140	1.7	<0.50	<0.50	<1.5	14	<150
MW-1	**06/21/12**	97.52	13.27	84.25	<470	<470	130	<0.50	<0.50	<0.50	<1.0	11	<150
MW-2	06/13/11	97.81	14.06	83.75	<41	<50	<50	<0.5	<0.5	<0.5	<0.5	1	<50
MW-2	12/02/11	97.81	13.42	84.39	<520	<520	<50	<0.50	<0.50	<0.50	<1.5	3.8	<150
MW-2	**06/21/12**	97.81	13.90	83.91	<480	<480	<50	<0.50	<0.50	<0.50	<1.0	15	<150
MW-3	06/13/11	98.78	11.69	87.09	38,000	19,000	<50	<0.5	2	<0.5	<0.5	<0.5	<50
MW-3	12/02/11	98.78	11.44	87.34	4,100	2,000	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<150
MW-3	**06/21/12**	98.78	11.80	86.98	1,500	6,800	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<150
MW-4	06/13/11	97.14	13.07	84.07	1,900	2,000	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
MW-4	12/02/11	97.14	INACCESSIBLE		--	--	--	--	--	--	--	--	--
MW-4	**06/21/12**	97.14	14.43	82.71	620	1,900	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<150
MW-5	06/13/11	95.71	11.58	84.13	<42	240	240	<0.5	<0.5	<0.5	<0.5	0.9	<50
MW-5	12/02/11	95.71	11.68	84.03	<500	<500	180	<0.50	<0.50	<0.50	<1.5	1.4	<150
MW-5	**06/21/12**	95.71	12.22	83.49	<510	<510	200	<0.50	<0.50	<0.50	<1.0	0.68	<150
MW-6	06/13/11	95.84	10.59	85.25	<40	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
MW-6	12/02/11	95.84	INACCESSIBLE		--	--	--	--	--	--	--	--	--
MW-6	**06/21/12**	95.84	INACCESSIBLE		--	--	--	--	--	--	--	--	--

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON SERVICE STATION 9-9708
5910 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Location	Date	*TOC*	*DTW*	*GWE*	*TPH-MO*	*TPH-DRO*	*TPH-GRO*	*Benzene*	*Toluene*	*Ethylbenzene*	*Total Xylenes*	*MTBE*	*Ethanol*
	Units	*(ft amsl)*	*(ft)*	*(ft amsl)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*	*(µg/l)*
QA	06/13/11	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
QA	12/02/11	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<0.50	<150
QA	**06/21/12**	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<150

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to Water (measured from top of casing)

GWE = Groundwater elevation

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

TPH-DRO = Total petroleum hydrocarbons as diesel range organics

TPH-GRO = Total petroleum hydrocarbons as gasoline range organics

MTBE = Methyl tertiary butyl ether

Ft amsl = Feet above mean sea level

Ft = Feet

µg/l = micrograms per liter

< = Not detected above detection limit indicated

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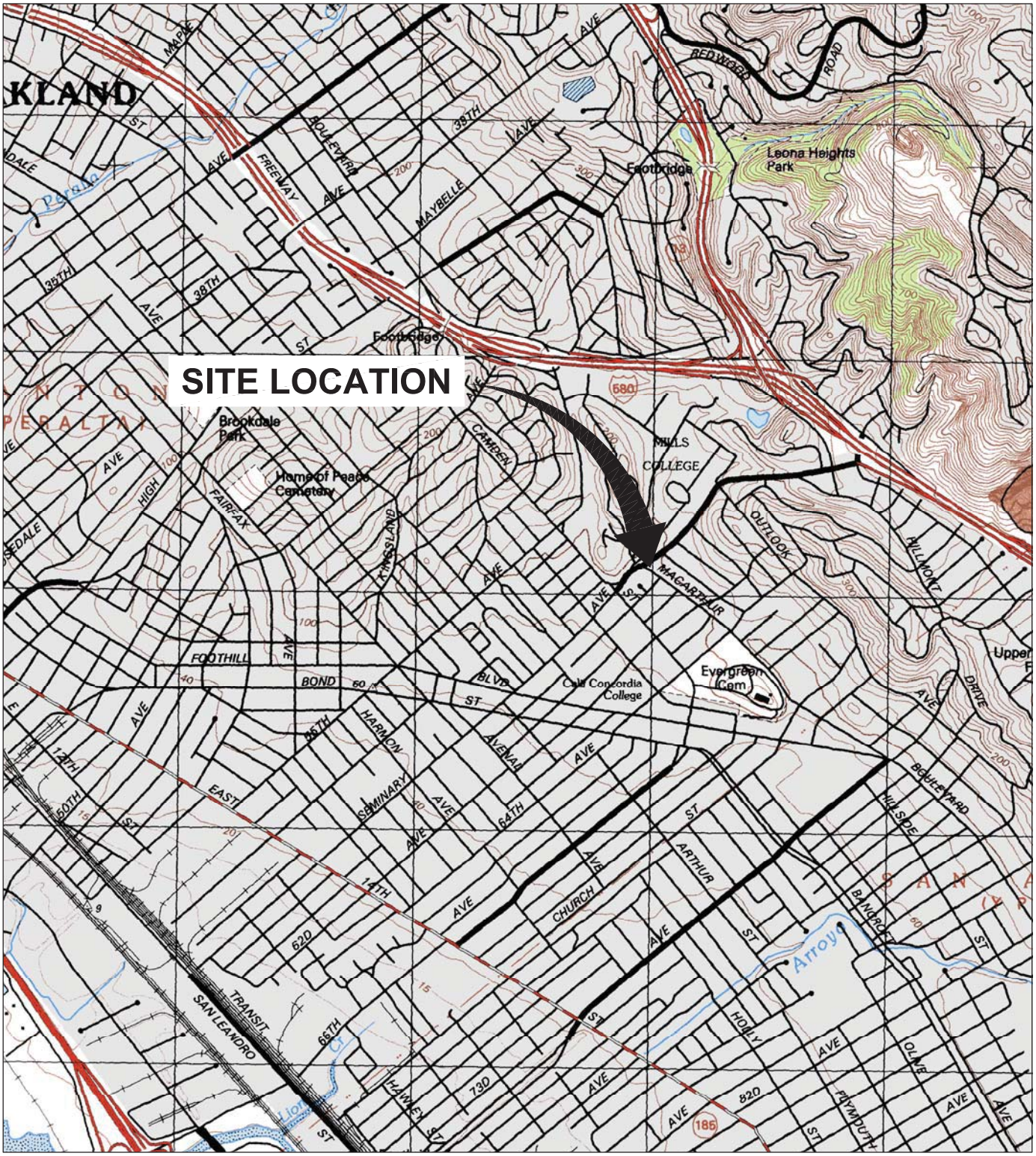
Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND EAST, CA, 1997.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

FORMER CHEVRON SERVICE STATION NO. 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA

SITE LOCATION MAP

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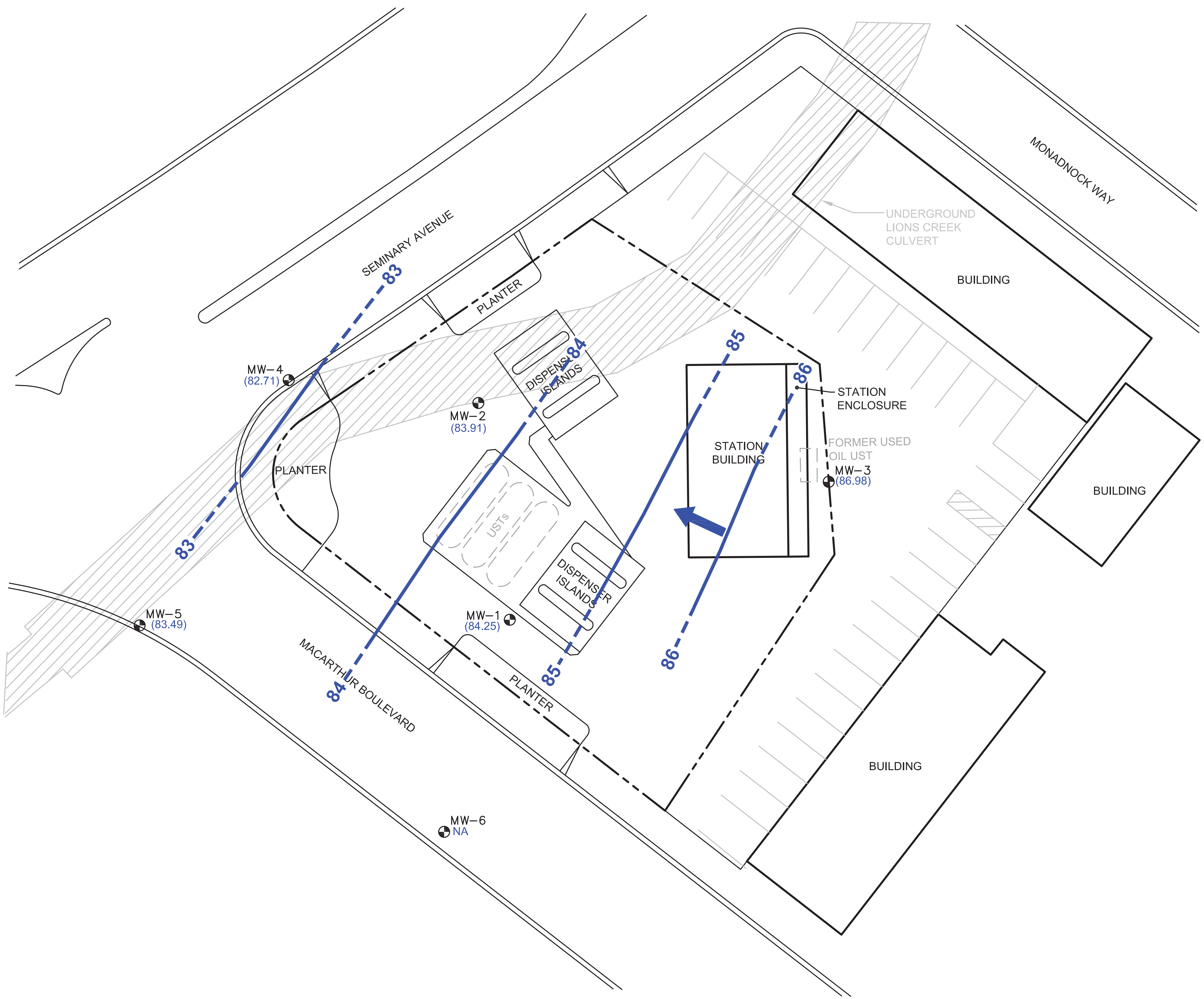
FIGURE 1

CITY:(SYRACUSE) DIV/GROUP:(ENV/IM+DV) DB:(DHOWES) LD:(Opt) PIC:(NA) PM:(BJWALL) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\B006090197081\00001\DWG\60901N01.dwg LAYOUT: 1 SAVED: 1/12/2012 8:12 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/12/2012 8:13 AM BY: HOWES, DAVID
XREFS: IMAGES: PROJECTNAME: --
CA_Oakland_East.tif
CA_Oakland_East.tif



LEGEND:

PROPERTY LINE

MONITORING WELL

UST UNDERGROUND STORAGE TANK

(86.98) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FT AMSL)

86 GROUNDWATER ELEVATION CONTOUR, DASHED WHERE INFERRED (FT AMSL)

APPROXIMATE DIRECTION OF GROUNDWATER FLOW. HYDRAULIC GRADIENT IS APPROXIMATELY 0.030 FEET PER FOOT (FT/FT)

NA NOT ACCESSIBLE

NOTES:

1. BASE MAP DIGITIZED FROM A PHOTOCOPY OF A DRAWING BY CONESTOGA-ROVER ASSOCIATES (CRA) TITLED "GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP", DATED JUNE 13, 2011, @ A SCALE OF 1" = 30'.
2. ALL LOCATIONS ARE APPROXIMATE.

0 30' 60'
GRAPHIC SCALE

FORMER CHEVRON SERVICE STATION 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA

GROUNDWATER ELEVATION CONTOUR MAP - FIRST SEMIANNUAL 2012

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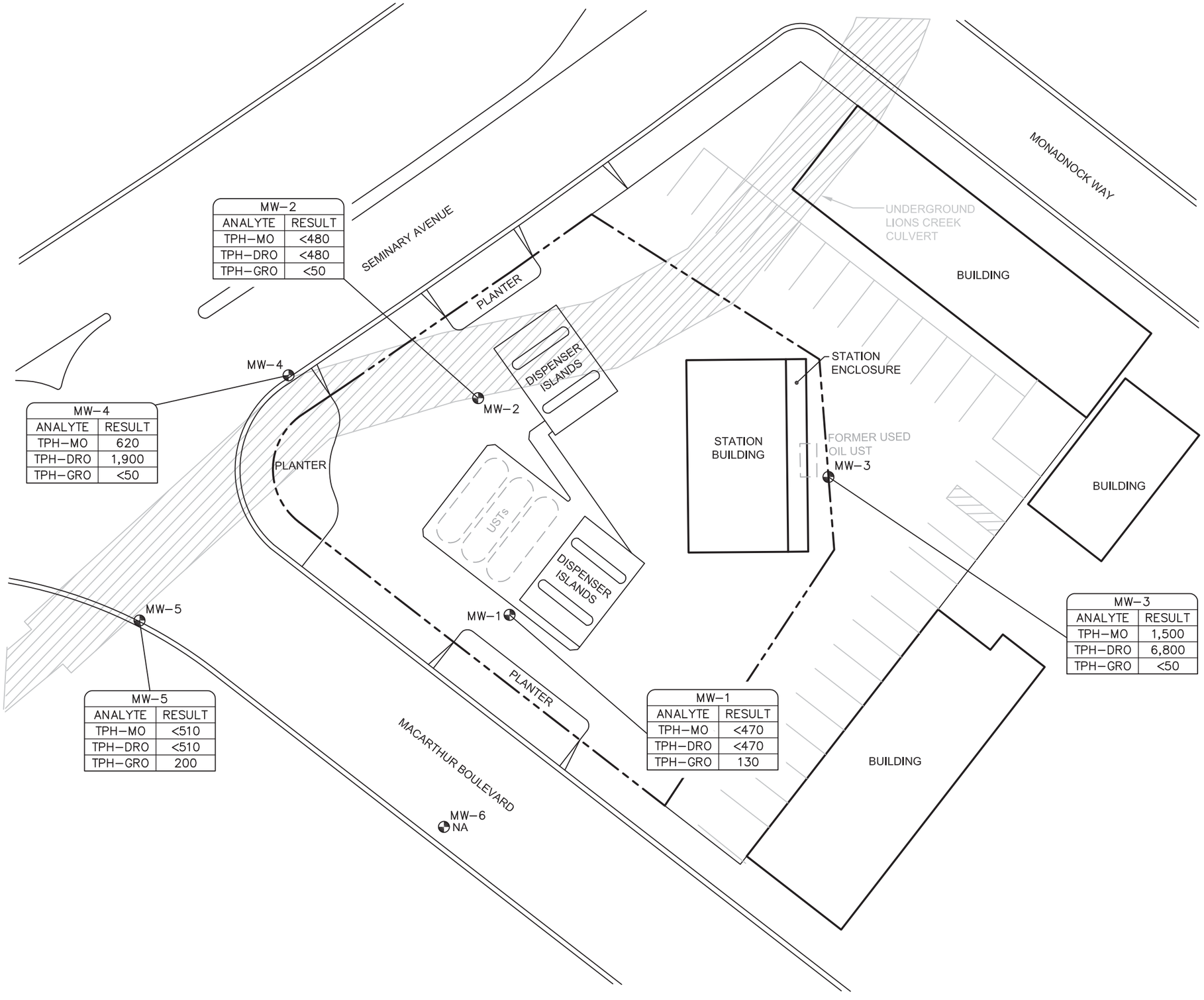
FIGURE
2



LEGEND:

- PROPERTY LINE
- MONITORING WELL
- UST — UNDERGROUND STORAGE TANK
- TPH-MO — TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
- TPH-DRO — TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- TPH-GRO — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- < = — NOT DETECTED ABOVE DETECTION LIMIT INDICATED

NOTES:

1. BASE MAP DIGITIZED FROM A PHOTOCOPY OF A DRAWING BY CONESTOGA-ROVER ASSOCIATES (CRA) TITLED "GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP", DATED JUNE 13, 2011, @ A SCALE OF 1" = 30'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER.

0 30' 60'

GRAPHIC SCALE

FORMER CHEVRON SERVICE STATION 9-9708
5910 MACARTHUR BOULEVARD, OAKLAND, CA

CONCENTRATION MAP - FIRST SEMIANNUAL 2012

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FIGURE 3

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Attachment 1

Groundwater Monitoring and Sampling Field Data Sheets

WELL GAUGING DATA

Project # 120621-J01 Date 6-21-12 Client chevron

Site 5910 MacArthur Blvd Oakland ca

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	Notes
MW-1	0839	2					13.27	19.99		
MW-2	0835	2					13.90	20.03		
MW-3	0846	2					11.80	20.00		
MW-4	0950	2					14.43	19.60		
MW-5	1015	2					12.22	18.60		
MW-6		Well parked over								

CHEVRON WELL MONITORING DATA SHEET

Project #: 120621-101	Station #: 9-9708
Sampler: JO	Date: 6-21-12
Weather: cloudy	Ambient Air Temperature: 66°F
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.99	Depth to Water: 13.27
Depth to Free Product: ____	Thickness of Free Product (feet): ____
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.61	

Purge Method:

Bailer / Waterra
(Disposable Bailer) / Peristaltic
Positive Air Displacement / Extraction Pump
Electric Submersible / Other ____

Sampling Method: Bailer
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: ____

1.0 (Gals.) X	3	= 3.0 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0942	67.9	7.01	871	>1000	1.0	
0944	68.0	6.97	877	>1000	2.0	
0946	68.0	6.94	881	>1000	3.0	

Did well dewater? Yes (No) Gallons actually evacuated: 3.0

Sampling Date: 6-21-12 Sampling Time: 1130 Depth to Water: 14.82 (Site Representative)

Sample I.D.: MW-1 Laboratory: Lancaster Other TA

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120621-101	Station #: 9-9708
Sampler: JO	Date: 6-21-12
Weather: cloudy	Ambient Air Temperature: 65° F
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 20.03	Depth to Water: 13.90
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.17	

Purge Method:

- Bailer
- ~~Disposable Bailer~~
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ___

Sampling Method:

- Bailer
- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: ___

1.0 (Gals.) X 3 = 3.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0930	67.6	6.79	794	>1000	1.0	
0933	67.7	6.74	781	>1000	2.0	
0936	67.8	6.72	774	>1000	3.0	

Did well dewater? Yes (No) Gallons actually evacuated: 3.0

Sampling Date: 6-21-12 Sampling Time: 1115 Depth to Water: 15.72 (site Depth)

Sample I.D.: MW-2 Laboratory: Lancaster Other TA

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120621-101	Station #: 9-9708
Sampler: SO	Date: 6-21-12
Weather: cloudy	Ambient Air Temperature: 65°
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 20.00	Depth to Water: 11.90
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.44	

Purge Method:

Bailer	Waterra	
(Disposable Bailer)	Peristaltic	
Positive Air Displacement	Extraction Pump	
Electric Submersible	Other_____	

Sampling Method: Bailer
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

1.3 (Gals.) X 3 = 3.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0905	68.9	7.24	309	138	1.3	
0908	68.9	7.16	312	134	2.6	
0912	68.4	7.11	317	132	3.9	

Did well dewater? Yes (No) Gallons actually evacuated: 3.9

Sampling Date: 6-21-12 Sampling Time: 1100 Depth to Water: 14.12 (site departure)

Sample I.D.: MW-3 Laboratory: Lancaster Other TA

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120621-101	Station #: 9-9708
Sampler: JD	Date: 6-21-12
Weather: cloudy	Ambient Air Temperature: 66°F
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: ~~19.80~~ 19.60	Depth to Water: 18.43
Depth to Free Product: ___	Thickness of Free Product (feet): ___
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.46	

Purge Method:

Bailer / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ___

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: ___

0.8 (Gals.) X 3 = 2.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0955	68.1	7.31	974	428	0.8	
0956	68.1	7.30	977	431	1.6	
0958	68.2	7.31	982	437	2.4	

Did well dewater? Yes (No) Gallons actually evacuated: 2.4

Sampling Date: 6-21-12 Sampling Time: 1005 Depth to Water: 16.07 (Traffic)

Sample I.D.: MW-4 Laboratory: Lancaster Other TA

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120621-101	Station #: 9-9708
Sampler: SO	Date: 6-21-12
Weather: cloudy	Ambient Air Temperature: 66°F
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 18.60	Depth to Water: 12.22
Depth to Free Product: ____	Thickness of Free Product (feet): ____
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.49	

Purge Method:

- Bailer
- (Disposable Bailer)
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ____

Sampling Method: Bailer

- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: ____

1.0 (Gals.) X 3 = 3.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1021	68.0	7.02	871	>1000	1.0	
1023	68.1	6.91	868	>1000	2.0	
1025	68.1	6.90	865	>1000	3.0	

Did well dewater? Yes (No) Gallons actually evacuated: 3.0

Sampling Date: 6-21-12 Sampling Time: 1030 Depth to Water: 14.22 (Trip Blk)

Sample I.D.: MW-5 Laboratory: Lancaster Other TA

Analyzed for: TPH-G BTEX MTBE OXYS Other: See COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 120621-101	Station #: 9-9708
Sampler: SO	Date: 6-21-12
Weather:	Ambient Air Temperature:
Well I.D.: MW-6	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:

- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:

- Bailer
- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: _____

_____(Gals.) X 3 = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
well purged			clear.	no sample taken		

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 6-21-12 Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Lancaster Other TA

Analyzed for: TPH-G BTEX MTBE OXYS Other: see COC

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Toni DeMayo	Site Contact:	Date: 6/21/12	COC No:
Arcadis - U.S., Inc. - Irvine	Tel/Fax: (916) 985-2079	Lab Contact: Sushmitha Reddy	Carrier:	1 of 1 COCs
320 Commerce, Suite 200	Analysis Turnaround Time			Job No. 120621-301
Irvine, CA 92602	Calendar (C) or Work Days (W)			
714-508-2657 Phone	TAT if different from Below			SDG No.
714-730-9345 FAX	■ 2 weeks			
Project Name: 5910 MacArthur Blvd., Oakland, CA	☐ 1 week			
Site: 9-9708	☐ 2 days			
P O / Global ID: T0600102093	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	GRO by EPA 8015 MOD	BTEX & MTBE (8260B)	DRO with Silica Gel Clean Up by 8015	TPH-mo with Silica Gel Clean Up by 8015	Ethanol by 8260B	Sample Specific Notes:
MW-1	6/21/12	1130	GRAB	W	9		X	X	X	X	X	
MW-2		1115					X	X	X	X	X	
MW-3		1100					X	X	X	X	X	
MW-4		1005					X	X	X	X	X	
MW-5		1030					X	X	X	X	X	
MW-6							X	X	X	X	X	MS
TB-20120621		0830	GRAB	T	4		X	X				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							1,2	1,2	1	1	1,2	

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ■ *Disposal By Lab* ☐ *Archive For _____ Months*

Special Instructions/QC Requirements & Comments:
Must meet lowest detection limits possible for 8260 compounds

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BTS	6/21/12 1615		BTS	6/21/12 1615
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BTS	6/22/12 1100		T.A.	6-22-12 11:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

WELLHEAD INSPECTION CHECKLIST

Client Chevron Date 6-26-12

Site Address 5910 MacArthur Blvd Oakland CA

Job Number 120621-101 Technician JD

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X							
MW-2						X		
MW-3						X		
MW-4						X		
MW-5						X		
MW-6		pulled dry						

NOTES: MW-2, 3/3 Bolts missing, MW-3 3/3 Bolts miss, NO cap, cap will not fit inside of well Box MW-4 1/2 Bolts missing, MW-5 1/2 Bolts missing

CHEVRON-NORTHERN CALIFORNIA TYPE **A** BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN SAN JOSE, CALIFORNIA FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 1680 Rogers Ave. San Jose CA (408) 573-0555). BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

9-9708 — CHEVRON #

Rob Speer — Chevron Project Manager

5910 — street number

MacArthur — street name

Blvd — (street name)

Oakland — city

CA — state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	3.0		
MW-2	3.0		
MW-3	3.9		
MW-4	2.4		
MW-5	3.0		

added equip. rinse water /

any other adjustments /

TOTAL GALS. RECOVERED 15.3

loaded onto BTS vehicle #

BTS event # 12062-J01 — time 1200 — date 6/21/12

signature

****

REC'D AT 1315 — time 1550 — date 6/21/12

unloaded by signature

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Chevron 9-9708				PROJECT NUMBER 120621-501			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Myron L Ultrameter	6222814	6-21-12 0730	7, 10, 4 3900 ms	7.01, 10.02, 4.06 3902 ms	yes	16°C	SO

ARCADIS

Attachment 2

Laboratory Analytical Report and
Chain-of-Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-15517-1
Client Project/Site: Chevron - 9-9708

For:
ARCADIS U.S., Inc.
3240 El Camino Real
Suite 200
Irvine, California 92602

Attn: Toni DeMayo

Authorized for release by:
7/7/2012 11:08:03 PM

Sushmitha Reddy
Project Manager I
sushmitha.reddy@testamericainc.com

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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-15517-1	MW-1	Water	06/21/12 11:30	06/23/12 09:50
440-15517-2	MW-2	Water	06/21/12 11:15	06/23/12 09:50
440-15517-3	MW-3	Water	06/21/12 11:00	06/23/12 09:50
440-15517-4	MW-4	Water	06/21/12 10:05	06/23/12 09:50
440-15517-5	MW-5	Water	06/21/12 10:30	06/23/12 09:50
440-15517-6	TB-20120621	Water	06/21/12 08:30	06/23/12 09:50

Job ID: 440-15517-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-15517-1

Comments
No additional comments.

Receipt
The samples were received on 6/23/2012 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 35777. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8015B: Surrogate recovery for the following samples was outside control limits: MW-3 (440-15517-3), MW-4 (440-15517-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client Sample ID: MW-1

Lab Sample ID: 440-15517-1

Date Collected: 06/21/12 11:30

Matrix: Water

Date Received: 06/23/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/29/12 16:06	1
Ethanol	ND		150		ug/L			06/29/12 16:06	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 16:06	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 16:06	1
Methyl-t-Butyl Ether (MTBE)	**11**		0.50		ug/L			06/29/12 16:06	1
o-Xylene	ND		0.50		ug/L			06/29/12 16:06	1
Toluene	ND		0.50		ug/L			06/29/12 16:06	1
Xylenes, Total	ND		1.0		ug/L			06/29/12 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*06/29/12 16:06*	*1*
Dibromofluoromethane (Surr)	*83*		*80 - 120*		*06/29/12 16:06*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/29/12 16:06*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**130**		50		ug/L			06/26/12 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*65 - 140*		*06/26/12 22:50*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.47		mg/L		06/28/12 11:24	06/28/12 22:22	1
C29-C40	ND		0.47		mg/L		06/28/12 11:24	06/28/12 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*45 - 120*	*06/28/12 11:24*	*06/28/12 22:22*	*1*

Client Sample ID: MW-2

Lab Sample ID: 440-15517-2

Date Collected: 06/21/12 11:15

Matrix: Water

Date Received: 06/23/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/29/12 16:33	1
Ethanol	ND		150		ug/L			06/29/12 16:33	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 16:33	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 16:33	1
Methyl-t-Butyl Ether (MTBE)	**15**		0.50		ug/L			06/29/12 16:33	1
o-Xylene	ND		0.50		ug/L			06/29/12 16:33	1
Toluene	ND		0.50		ug/L			06/29/12 16:33	1
Xylenes, Total	ND		1.0		ug/L			06/29/12 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/29/12 16:33*	*1*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*06/29/12 16:33*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/29/12 16:33*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			06/26/12 23:17	1

Client Sample ID: MW-2

Lab Sample ID: 440-15517-2

Date Collected: 06/21/12 11:15

Matrix: Water

Date Received: 06/23/12 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*		*06/26/12 23:17*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.48		mg/L		06/28/12 11:24	06/28/12 22:42	1
C29-C40	ND		0.48		mg/L		06/28/12 11:24	06/28/12 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*72*		*45 - 120*	*06/28/12 11:24*	*06/28/12 22:42*	*1*

Client Sample ID: MW-3

Lab Sample ID: 440-15517-3

Date Collected: 06/21/12 11:00

Matrix: Water

Date Received: 06/23/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/29/12 17:00	1
Ethanol	ND		150		ug/L			06/29/12 17:00	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 17:00	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 17:00	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/29/12 17:00	1
o-Xylene	ND		0.50		ug/L			06/29/12 17:00	1
Toluene	ND		0.50		ug/L			06/29/12 17:00	1
Xylenes, Total	ND		1.0		ug/L			06/29/12 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/29/12 17:00*	*1*
Dibromofluoromethane (Surr)	*80*		*80 - 120*		*06/29/12 17:00*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/29/12 17:00*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			06/28/12 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*65 - 140*		*06/28/12 05:20*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**6.8**		0.49		mg/L		06/28/12 11:24	06/28/12 23:03	1
C29-C40	**1.5**		0.49		mg/L		06/28/12 11:24	06/28/12 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*39*	*X*	*45 - 120*	*06/28/12 11:24*	*06/28/12 23:03*	*1*

Client Sample ID: MW-4

Lab Sample ID: 440-15517-4

Date Collected: 06/21/12 10:05

Matrix: Water

Date Received: 06/23/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/29/12 17:28	1
Ethanol	ND		150		ug/L			06/29/12 17:28	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 17:28	1

Client Sample ID: MW-4

Date Collected: 06/21/12 10:05
Date Received: 06/23/12 09:50

Lab Sample ID: 440-15517-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		1.0		ug/L			06/29/12 17:28	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/29/12 17:28	1
o-Xylene	ND		0.50		ug/L			06/29/12 17:28	1
Toluene	ND		0.50		ug/L			06/29/12 17:28	1
Xylenes, Total	ND		1.0		ug/L			06/29/12 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/29/12 17:28*	*1*
Dibromofluoromethane (Surr)	*86*		*80 - 120*		*06/29/12 17:28*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/29/12 17:28*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			06/27/12 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*65 - 140*		*06/27/12 00:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	**1.9**		0.48		mg/L		06/28/12 11:24	06/28/12 23:43	1
C29-C40	**0.62**		0.48		mg/L		06/28/12 11:24	06/28/12 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*41*	*X*	*45 - 120*	*06/28/12 11:24*	*06/28/12 23:43*	*1*

Client Sample ID: MW-5

Date Collected: 06/21/12 10:30
Date Received: 06/23/12 09:50

Lab Sample ID: 440-15517-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/29/12 17:55	1
Ethanol	ND		150		ug/L			06/29/12 17:55	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 17:55	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 17:55	1
Methyl-t-Butyl Ether (MTBE)	**0.68**		0.50		ug/L			06/29/12 17:55	1
o-Xylene	ND		0.50		ug/L			06/29/12 17:55	1
Toluene	ND		0.50		ug/L			06/29/12 17:55	1
Xylenes, Total	ND		1.0		ug/L			06/29/12 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/29/12 17:55*	*1*
Dibromofluoromethane (Surr)	*88*		*80 - 120*		*06/29/12 17:55*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/29/12 17:55*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**200**		50		ug/L			06/27/12 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*65 - 140*		*06/27/12 00:37*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15517-1

Client Sample ID: MW-5

Lab Sample ID: 440-15517-5

Date Collected: 06/21/12 10:30

Matrix: Water

Date Received: 06/23/12 09:50

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.51		mg/L		06/28/12 11:24	06/29/12 00:24	1
C29-C40	ND		0.51		mg/L		06/28/12 11:24	06/29/12 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*45 - 120*	*06/28/12 11:24*	*06/29/12 00:24*	*1*

Client Sample ID: TB-20120621

Lab Sample ID: 440-15517-6

Date Collected: 06/21/12 08:30

Matrix: Water

Date Received: 06/23/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/29/12 18:22	1
Ethanol	ND		150		ug/L			06/29/12 18:22	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 18:22	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 18:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/29/12 18:22	1
o-Xylene	ND		0.50		ug/L			06/29/12 18:22	1
Toluene	ND		0.50		ug/L			06/29/12 18:22	1
Xylenes, Total	ND		1.0		ug/L			06/29/12 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/29/12 18:22*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*06/29/12 18:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/29/12 18:22*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			06/27/12 01:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*65 - 140*		*06/27/12 01:04*	*1*

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15517-1

Client Sample ID: MW-1

Lab Sample ID: 440-15517-1

Date Collected: 06/21/12 11:30

Matrix: Water

Date Received: 06/23/12 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 16:06	LB	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	35228	06/26/12 22:50	RG	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1060 mL	1 mL	35777	06/28/12 11:24	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			35936	06/28/12 22:22		TAL IRV

Client Sample ID: MW-2

Lab Sample ID: 440-15517-2

Date Collected: 06/21/12 11:15

Matrix: Water

Date Received: 06/23/12 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 16:33	LB	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	35228	06/26/12 23:17	RG	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1050 mL	1 mL	35777	06/28/12 11:24	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			35936	06/28/12 22:42		TAL IRV

Client Sample ID: MW-3

Lab Sample ID: 440-15517-3

Date Collected: 06/21/12 11:00

Matrix: Water

Date Received: 06/23/12 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 17:00	LB	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	35410	06/28/12 05:20	RG	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1030 mL	1 mL	35777	06/28/12 11:24	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			35936	06/28/12 23:03		TAL IRV

Client Sample ID: MW-4

Lab Sample ID: 440-15517-4

Date Collected: 06/21/12 10:05

Matrix: Water

Date Received: 06/23/12 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 17:28	LB	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	35228	06/27/12 00:11	RG	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			1050 mL	1 mL	35777	06/28/12 11:24	KW	TAL IRV
Silica Gel Cleanup	Analysis	8015B		1			35936	06/28/12 23:43		TAL IRV

Client Sample ID: MW-5

Lab Sample ID: 440-15517-5

Date Collected: 06/21/12 10:30

Matrix: Water

Date Received: 06/23/12 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 17:55	LB	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	35228	06/27/12 00:37	RG	TAL IRV
Silica Gel Cleanup	Prep	3510C SGC			990 mL	1 mL	35777	06/28/12 11:24	KW	TAL IRV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15517-1

Client Sample ID: MW-5

Lab Sample ID: 440-15517-5

Date Collected: 06/21/12 10:30

Matrix: Water

Date Received: 06/23/12 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Analysis	8015B		1			35936	06/29/12 00:24		TAL IRV

Client Sample ID: TB-20120621

Lab Sample ID: 440-15517-6

Date Collected: 06/21/12 08:30

Matrix: Water

Date Received: 06/23/12 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	35961	06/29/12 18:22	LB	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	35228	06/27/12 01:04	RG	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-35961/3
Matrix: Water
Analysis Batch: 35961

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/29/12 10:05	1
Ethanol	ND		150		ug/L			06/29/12 10:05	1
Ethylbenzene	ND		0.50		ug/L			06/29/12 10:05	1
m,p-Xylene	ND		1.0		ug/L			06/29/12 10:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			06/29/12 10:05	1
o-Xylene	ND		0.50		ug/L			06/29/12 10:05	1
Toluene	ND		0.50		ug/L			06/29/12 10:05	1
Xylenes, Total	ND		1.0		ug/L			06/29/12 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/29/12 10:05*	*1*
Dibromofluoromethane (Surr)	*84*		*80 - 120*		*06/29/12 10:05*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/29/12 10:05*	*1*

Lab Sample ID: LCS 440-35961/4
Matrix: Water
Analysis Batch: 35961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.7		ug/L		95	70 - 120
Ethanol	250	330		ug/L		132	40 - 155
Ethylbenzene	25.0	25.6		ug/L		102	75 - 125
m,p-Xylene	50.0	52.8		ug/L		106	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	21.2		ug/L		85	60 - 135
o-Xylene	25.0	26.6		ug/L		106	75 - 125
Toluene	25.0	25.3		ug/L		101	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*88*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 440-15189-B-1 MS
Matrix: Water
Analysis Batch: 35961

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.90		25.0	21.7		ug/L		83	65 - 125
Ethanol	ND		250	309		ug/L		124	40 - 155
Ethylbenzene	3.6		25.0	25.5		ug/L		87	65 - 130
m,p-Xylene	ND		50.0	45.9		ug/L		92	65 - 130
Methyl-t-Butyl Ether (MTBE)	2.3		25.0	20.4		ug/L		72	55 - 145
o-Xylene	ND		25.0	22.2		ug/L		89	65 - 125
Toluene	ND		25.0	23.4		ug/L		94	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*84*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-15189-B-1 MS
Matrix: Water
Analysis Batch: 35961

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 440-15189-B-1 MSD
Matrix: Water
Analysis Batch: 35961

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.90		25.0	22.5		ug/L		86	65 - 125	3	20
Ethanol	ND		250	336		ug/L		134	40 - 155	8	30
Ethylbenzene	3.6		25.0	25.8		ug/L		89	65 - 130	1	20
m,p-Xylene	ND		50.0	48.0		ug/L		96	65 - 130	5	25
Methyl-t-Butyl Ether (MTBE)	2.3		25.0	21.4		ug/L		76	55 - 145	5	25
o-Xylene	ND		25.0	24.0		ug/L		96	65 - 125	8	20
Toluene	ND		25.0	23.5		ug/L		94	70 - 125	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	84		80 - 120
Toluene-d8 (Surr)	102		80 - 120

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-35228/5
Matrix: Water
Analysis Batch: 35228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			06/26/12 15:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		65 - 140		06/26/12 15:39	1

Lab Sample ID: LCS 440-35228/2
Matrix: Water
Analysis Batch: 35228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	800	688		ug/L		86	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		65 - 140

Lab Sample ID: 440-15296-C-4 MS
Matrix: Water
Analysis Batch: 35228

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		800	694		ug/L		87	65 - 140

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-15296-C-4 MS
Matrix: Water
Analysis Batch: 35228

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*65 - 140*

Lab Sample ID: 440-15296-C-4 MSD
Matrix: Water
Analysis Batch: 35228

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	685		ug/L		86	65 - 140	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*65 - 140*

Lab Sample ID: MB 440-35410/28
Matrix: Water
Analysis Batch: 35410

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50		ug/L			06/27/12 20:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*65 - 140*		*06/27/12 20:27*	*1*

Lab Sample ID: LCS 440-35410/27
Matrix: Water
Analysis Batch: 35410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			800	717		ug/L		90	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*

Lab Sample ID: 440-15684-A-3 MS
Matrix: Water
Analysis Batch: 35410

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		800	732		ug/L		91	65 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*65 - 140*

Lab Sample ID: 440-15684-A-3 MSD
Matrix: Water
Analysis Batch: 35410

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	743		ug/L		93	65 - 140	2	20

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-15684-A-3 MSD
Matrix: Water
Analysis Batch: 35410

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-35777/1-A
Matrix: Water
Analysis Batch: 35936

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 35777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C28	ND		0.50		mg/L		06/28/12 11:24	06/28/12 20:17	1
C29-C40	ND		0.50		mg/L		06/28/12 11:24	06/28/12 20:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*45 - 120*	*06/28/12 11:24*	*06/28/12 20:17*	*1*

Lab Sample ID: LCS 440-35777/2-A
Matrix: Water
Analysis Batch: 35936

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 35777

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			1.00	0.774		mg/L		77	40 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*78*		*45 - 120*

Lab Sample ID: LCSD 440-35777/3-A
Matrix: Water
Analysis Batch: 35936

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 35777

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.826		mg/L		83	40 - 115	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*80*		*45 - 120*

GC/MS VOA

Analysis Batch: 35961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15189-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-15189-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-15517-1	MW-1	Total/NA	Water	8260B	
440-15517-2	MW-2	Total/NA	Water	8260B	
440-15517-3	MW-3	Total/NA	Water	8260B	
440-15517-4	MW-4	Total/NA	Water	8260B	
440-15517-5	MW-5	Total/NA	Water	8260B	
440-15517-6	TB-20120621	Total/NA	Water	8260B	
LCS 440-35961/4	Lab Control Sample	Total/NA	Water	8260B	
MB 440-35961/3	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 35228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15296-C-4 MS	Matrix Spike	Total/NA	Water	8015B	
440-15296-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	
440-15517-1	MW-1	Total/NA	Water	8015B	
440-15517-2	MW-2	Total/NA	Water	8015B	
440-15517-4	MW-4	Total/NA	Water	8015B	
440-15517-5	MW-5	Total/NA	Water	8015B	
440-15517-6	TB-20120621	Total/NA	Water	8015B	
LCS 440-35228/2	Lab Control Sample	Total/NA	Water	8015B	
MB 440-35228/5	Method Blank	Total/NA	Water	8015B	

Analysis Batch: 35410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15517-3	MW-3	Total/NA	Water	8015B	
440-15684-A-3 MS	Matrix Spike	Total/NA	Water	8015B	
440-15684-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	
LCS 440-35410/27	Lab Control Sample	Total/NA	Water	8015B	
MB 440-35410/28	Method Blank	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 35777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15517-1	MW-1	Silica Gel Cleanup	Water	3510C SGC	
440-15517-2	MW-2	Silica Gel Cleanup	Water	3510C SGC	
440-15517-3	MW-3	Silica Gel Cleanup	Water	3510C SGC	
440-15517-4	MW-4	Silica Gel Cleanup	Water	3510C SGC	
440-15517-5	MW-5	Silica Gel Cleanup	Water	3510C SGC	
LCS 440-35777/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 440-35777/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 440-35777/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 35936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15517-1	MW-1	Silica Gel Cleanup	Water	8015B	35777
440-15517-2	MW-2	Silica Gel Cleanup	Water	8015B	35777
440-15517-3	MW-3	Silica Gel Cleanup	Water	8015B	35777
440-15517-4	MW-4	Silica Gel Cleanup	Water	8015B	35777

GC Semi VOA (Continued)

Analysis Batch: 35936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-15517-5	MW-5	Silica Gel Cleanup	Water	8015B	35777
LCS 440-35777/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	35777
LCSD 440-35777/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	35777
MB 440-35777/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	35777

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15517-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Chevron - 9-9708

TestAmerica Job ID: 440-15517-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Irvine	Arizona	State Program	9	AZ0671
TestAmerica Irvine	California	LA Cty Sanitation Districts	9	10256
TestAmerica Irvine	California	NELAC	9	1108CA
TestAmerica Irvine	Guam	State Program	9	Cert. No. 12.002r
TestAmerica Irvine	Hawaii	State Program	9	N/A
TestAmerica Irvine	Nevada	State Program	9	CA015312007A
TestAmerica Irvine	New Mexico	State Program	6	N/A
TestAmerica Irvine	Northern Mariana Islands	State Program	9	MP0002
TestAmerica Irvine	Oregon	NELAC	10	4005
TestAmerica Irvine	USDA	Federal		P330-09-00080

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Toni DeMayo	Site Contact:	Date: 6/21/12	COC No:
Arcadis - U.S., Inc. - Irvine	Tel/Fax: (916) 985-2079	Lab Contact: Sushmitha Reddy	Carrier:	1 of 1 COCs
320 Commerce, Suite 200	Analysis Turnaround Time			Job No. 120621-301
Irvine, CA 92602	Calendar (C) or Work Days (W) _____			SDG No. 440-15517
714-508-2657 Phone	TAT if different from Below _____			
714-730-9345 FAX	■ 2 weeks			
Project Name: 5910 MacArthur Blvd., Oakland, CA	☐ 1 week			
Site: 9-9708	☐ 2 days			
P O / Global ID: T0600102093	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	GRO by EPA 8015 MOD	BTEX & MTBE (8260B)	DRO with Silica Gel Clean Up by 8015	TPH-mo with Silica Gel Clean Up by 8015	Ethanol by 8260B	Sample Specific Notes:
MW-1	6/21/12	1130	GRAB	W	9		X	X	X	X	X	
MW-2		1115					X	X	X	X	X	
MW-3		1100					X	X	X	X	X	
MW-4		1005					X	X	X	X	X	
MW-5		1030					X	X	X	X	X	
~~MW-6~~							X	X	X	X	X	BB
TB-20120621		0830	GRAB	T	4		X	X				
							1,2	1,2	1	1	1,2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ■ *Disposal By Lab* ☐ *Archive For _____ Months*

Special Instructions/QC Requirements & Comments:
Must meet lowest detection limits possible for 8260 compounds

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BTS	6/21/12 1615		BTS	6/21/12 1615
	BTS	6/22/12 1100		T-A	6-22-12 11:00
	T.A.	6-22-12 16:30		TA / 3.3°C	6/23/12 0950

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 440-15517-1

Login Number: 15517

List Number: 1

Creator: Kim, Will

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ARCADIS

Attachment 3

Historical Monitoring and Sampling Data

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
MW-1															
05/29/97	96.61	84.41	12.20	--	--	--	--	--	--	--	--	--	--	--	--
06/04/97	96.61	84.40	12.21	--	--	380	58	1.2	5.4	40	85	--	--	--	--
09/16/97	96.61	83.84	12.77	--	--	420	120	<0.5	19	2.7	28	--	--	--	--
12/17/97	96.61	85.43	11.18	--	--	210[1]	43	0.61	11	0.61	69	--	--	--	--
03/18/98	96.61	84.59	12.02	--	--	210[1]	47	<0.5	8.2	<0.5	92	--	--	--	--
06/28/98	96.61	83.99	12.62	--	--	<50	<0.5	<0.5	<0.5	<0.5	66	--	--	--	--
09/07/98	96.61	82.32	14.29	--	--	<50	6.7	<0.5	<0.5	<0.5	92	--	--	--	--
12/29/98	96.61	83.18	13.43	--	--	<100	<1.0	<1.0	2.24	1.14	278	--	--	--	--
03/11/99	96.61	83.80	12.81	--	--	110	<1.0	<1.0	7.95	<1.0	418	--	--	--	--
05/04/99	96.61	83.85	12.76	--	--	--	--	--	--	--	--	--	--	--	--
06/29/99	96.61	84.06	12.55	--	--	352	34.6	<2.5	51	<2.5	780	--	--	--	--
09/29/99	96.61	83.21	13.40	--	--	647	167	<2.5	58.6	14.8	1,570	--	--	--	--
12/08/99	96.61	85.70	10.91	--	--	481	121	1.16	17.9	11	3,910	--	--	--	--
03/01/00	96.61	85.46	11.15	--	--	2,580	481	6.84	86.6	41.9	5,460	--	--	--	--
06/23/00	96.61	83.68	12.93	--	--	900[4]	120	<5.0	22	6.7	5,400	--	--	--	--
09/30/00	96.61	83.07	13.54	--	--	1,300[4]	450	5.5	170	11	2,000	--	--	--	--
12/08/00	96.61	83.63	12.98	--	--	<1,000	41.7	<10.0	11.5	<10.0	6,030	--	--	--	--
03/01/01	96.61	84.94	11.67	--	--	340[7]	36.6	<0.500	10.1	<0.500	3,360	--	--	--	--
06/19/01	96.61	83.94	12.67	--	--	610[4]	110	<5.0	9.2	<5.0	110	--	--	--	--
09/18/01	96.61	83.48	13.13	--	--	200	32	0.55	3.0	<1.5	1,600	--	--	--	--
12/26/01	96.61	85.14	11.47	--	--	140	9.1	<0.50	1.2	<1.5	1,900	--	--	--	--
03/06/02	97.52	86.38	11.14	--	--	93	7.0	<0.50	0.72	<1.5	1,000	--	--	--	--
06/21/02	97.52	84.92	12.60	--	--	93	8.2	<0.50	1.2	<1.5	1,300	--	--	--	--
09/27/02	97.52	84.38	13.14	--	--	78	1.5	<0.50	<0.50	<1.5	1,200	--	--	--	--
12/26/02	97.52	87.74	9.78	--	--	86	1.7	<0.50	<0.50	<1.5	600	--	--	--	--
03/28/03	97.52	85.96	11.56	--	--	190	24	<0.50	2.4	<1.5	1,200	--	--	--	--
06/16/03[11]	97.52	85.96	11.56	--	--	<50	3	<0.5	<0.5	<0.5	220	--	--	--	--
09/15/03[11]	97.52	85.21	12.31	--	--	53	3	<0.5	<0.5	<0.5	580	<50	--	--	--
12/15/03[11]	97.52	86.35	11.17	--	--	<50	<0.5	0.7	<0.5	0.8	410	<50	--	--	--
03/05/04[11]	97.52	86.09	11.43	--	--	760	110	2	12	2	460	<50	--	--	--
06/18/04[11]	97.52	85.40	12.12	--	--	1,400	200	3	7	2	740	<50	--	--	--
09/17/04[11]	97.52	85.12	12.40	--	--	920	48	<0.5	<0.5	<0.5	340	<50	--	--	--
12/17/04[11]	97.52	86.78	10.74	--	--	190	9	<0.5	<0.5	<0.5	110	<50	--	--	--
03/14/05[11]	97.52	87.67	9.85	--	--	120	5	<0.5	<0.5	<0.5	130	<50	--	--	--
06/13/05[11]	97.52	85.61	11.91	--	--	110	6	<0.5	<0.5	<0.5	130	<50	--	--	--
09/12/05[11]	97.52	85.31	12.21	--	--	290	10	<0.5	<0.5	<0.5	90	<50	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
MW-1 (cont)															
12/12/05[11]	97.52	86.50	11.02	--	--	150	1	<0.5	<0.5	0.8	53	<50	--	--	--
03/13/06[11]	97.52	87.97	9.55	--	--	82	0.8	<0.5	<0.5	<0.5	66	<50	--	--	--
06/12/06[11]	97.52	86.52	11.00	--	--	140	4	<0.5	<0.5	<0.5	65	<50	--	--	--
09/11/06[11]	97.52	85.99	11.53	--	--	210	3	<0.5	<0.5	<0.5	32	<50	--	--	--
12/15/06[11]	97.52	88.13	9.39	--	--	190	1	<0.5	<0.5	<0.5	31	<50	--	--	--
03/16/07[11]	97.52	86.02	11.50	--	--	99	0.8	<0.5	<0.5	<0.5	41	<50	--	--	--
06/15/07[11]	97.52	86.46	11.06	--	--	210	10	<0.5	<0.5	<0.5	49	<50	--	--	--
09/14/07[11]	97.52	85.14	12.38	--	--	270	6	<0.5	<0.5	<0.5	35	<50	--	--	--
12/07/07[11]	97.52	84.88	12.64	--	--	90	0.7	<0.5	<0.5	<0.5	43	<50	--	--	--
03/07/08[11]	97.52	85.54	11.98	--	--	110	<0.5	<0.5	<0.5	<0.5	32	<50	--	--	--
06/06/08[11]	97.52	86.18	11.34	--	--	180	0.7	<0.5	<0.5	<0.5	29	<50	--	--	--
09/05/08[11]	97.52	85.39	12.13	--	--	200	1	<0.5	<0.5	<0.5	20	<50	--	--	--
12/15/08[11]	97.52	85.31	12.21	--	--	150	<0.5	<0.5	<0.5	<0.5	19	<50	--	--	--
03/16/09[11]	97.52	87.60	9.92	--	--	68	<0.5	<0.5	<0.5	<0.5	19	<50	--	--	--
06/15/09[11]	97.52	85.97	11.55	--	--	210	3	<0.5	<0.5	<0.5	21	<50	--	--	--
11/30/09[11]	97.52	85.41	12.11	--	--	61	<0.5	<0.5	<0.5	<0.5	21	<50	--	--	--
06/07/10[11]	97.52	85.62	11.90	--	--	140	1	<0.5	<0.5	<0.5	17	<50	--	--	--
12/08/10[11]	97.52	87.11	10.41	<39	--	60	<0.5	<0.5	<0.5	<0.5	14	<50	--	--	--
06/13/11[11]	97.52	86.27	11.25	<41[14]	75[14]	<50	<0.5	<0.5	<0.5	<0.5	13	<50	--	--	--
12/02/11[11]	**97.52**	**84.70**	**12.82**	**<520[14]**	**<520[14]**	**140**	**1.7**	**<0.50**	**<0.50**	**<1.5**	**14**	**<150**	**--**	**--**	**--**
MW-2															
05/29/97	96.91	83.85	13.06	--	--	--	--	--	--	--	--	--	--	--	--
06/04/97	96.91	83.96	12.95	--	--	1,600	120	5.9	32	15	2,100	--	--	--	--
09/16/97	96.91	83.92	12.99	--	--	1,100	23	3.2	7.0	2.5	1,200	--	--	--	--
12/17/97	96.91	84.73	12.18	--	--	7,100[1]	650	69	610	69	4,700/2,600[2]	--	--	--	--
03/18/98	96.91	84.21	12.70	--	--	5,900[1]	250	<50	98	<50	12,000/7,100[2]	--	--	--	--
06/28/98	96.91	83.98	12.93	--	--	4,300	400	<10	<10	<10	3,000/4,000[2]	--	--	--	--
09/07/98	96.91	83.94	12.97	--	--	3,700	220	5.1	38	7.6	1,300/1,400[2]	--	--	--	--
12/29/98	96.91	83.99	12.92	--	--	6,500	573	26.8	131	33.9	2,660	--	--	--	--
03/11/99	96.91	84.04	12.87	--	--	4,970	651	30.8	60.3	<5.0	2,600	--	--	--	--
05/04/99	96.91	84.05	12.86	--	--	--	--	--	--	--	--	--	--	--	--
06/29/99	96.91	83.98	12.93	--	--	2,030	238	11.6	8.98	<5.0	540	--	--	--	--
09/29/99	96.91	84.02	12.89	--	--	2,000	320	10.4	16.5	20.3	642	--	--	--	--
12/08/99	96.91	86.18	10.73	--	--	96.8	2.74	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/01/00	96.91	84.31	12.60	--	--	<50	6.92	<0.5	<0.5	<0.5	254	--	--	--	--
06/23/00	96.91	83.98	12.93	--	--	1,700[4]	490	7.5	<5.0	7.7	770	--	--	--	--
09/30/00	96.91	83.95	12.96	--	--	2,000[4]	420	14	<10	<10	380	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
MW-2 (cont)															
12/08/00	96.91	83.98	12.93	--	--	984	54.9	<2.50	4.15	<2.50	306	--	--	--	--
03/01/01	96.91	84.15	12.76	--	--	<50.0	4.16	<0.500	<0.500	<0.500	245	--	--	--	--
06/19/01	96.91	83.23	13.68	--	--	1,700[4]	250	9.2	<5.0	6.9	410	--	--	--	--
09/18/01	96.91	83.96	12.95	--	--	1,700	42	1.9	2.0	2.9	280	--	--	--	--
12/26/01	96.91	83.88	13.03	--	--	<50	0.50	<0.50	<0.50	<1.5	120	--	--	--	--
03/06/02	97.81	84.82	12.99	--	--	670	170	2.5	<0.50	<1.5	410	--	--	--	--
06/21/02	97.81	84.10	13.71	--	--	1,800	120	7.3	2.0	3.1	440	--	--	--	--
09/27/02	97.81	82.51	15.30	--	--	180	11	1.0	<0.50	<1.5	4,700	--	--	--	--
12/26/02	97.81	84.81	13.00	--	--	<50	<0.50	<0.50	<0.50	<1.5	160	--	--	--	--
03/28/03	97.81	84.46	13.35	--	--	580	88	2.2	22	12	280	--	--	--	--
06/16/03[11]	97.81	83.10	14.71	--	--	200	1	29	<0.5	<0.5	1,400	--	--	--	--
09/15/03[11]	97.81	82.78	15.03	--	--	130	<1	<1	<1	<1	2,400	<130	--	--	--
12/15/03[11]	97.81	84.84	12.97	--	--	<50	<0.5	<0.5	<0.5	<0.5	63	<50	--	--	--
03/05/04[11]	97.81	84.79	13.02	--	--	<50	0.8	<0.5	<0.5	<0.5	49	<50	--	--	--
06/18/04[11]	97.81	82.72	15.09	--	--	60	<0.5	<0.5	<0.5	<0.5	1,900	<50	--	--	--
09/17/04[11]	97.81	82.46	15.35	--	--	66	<1	<1	<1	<1	2,100	<130	--	--	--
12/17/04[11]	97.81	84.61	13.20	--	--	120	7	<0.5	<0.5	0.7	91	<50	--	--	--
03/14/05[11]	97.81	84.79	13.02	--	--	390	69	0.8	10	2	74	<50	--	--	--
06/13/05[11]	97.81	82.87	14.94	--	--	<50	6	<0.5	<0.5	<0.5	10	<50	--	--	--
09/12/05[11]	97.81	82.62	15.19	--	--	77	<1	<1	<1	<1	1,400	<100	--	--	--
12/12/05[11]	97.81	84.32	13.49	--	--	14,000	1,500	1,100	660	3,500	82	<250	--	--	--
03/13/06[11]	97.81	84.97	12.84	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
06/12/06[11]	97.81	83.19	14.62	--	--	<50	<0.5	<0.5	<0.5	<0.5	81	<50	--	--	--
09/11/06[11]	97.81	82.59	15.22	--	--	73	<0.5	<0.5	<0.5	<0.5	170	<50	--	--	--
12/15/06[11]	97.81	84.86	12.95	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.8	<50	--	--	--
03/16/07[11]	97.81	84.41	13.40	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
06/17/07[11]	97.81	83.14	14.67	--	--	<50	0.9	<0.5	<0.5	<0.5	46	<50	--	--	--
09/14/07[11]	97.81	82.70	15.11	--	--	<50	0.7	<0.5	<0.5	<0.5	170	<50	--	--	--
12/07/07[11]	97.81	82.46	15.35	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.7	<50	--	--	--
03/07/08[11]	97.81	83.90	13.91	--	--	<50	<0.5	<0.5	<0.5	<0.5	3	<50	--	--	--
06/06/08[11]	97.81	83.01	14.80	--	--	<50	3	<0.5	<0.5	<0.5	78	<50	--	--	--
09/05/08[11]	97.81	82.78	15.03	--	--	<50	<0.5	<0.5	<0.5	<0.5	130	<50	--	--	--
12/15/08[11]	97.81	82.63	15.18	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
03/16/09[11]	97.81	84.36	13.45	--	--	<50	<0.5	<0.5	<0.5	<0.5	6	<50	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
MW-2 (cont)															
06/15/09[11]	97.81	82.53	15.28	--	--	1,500	29	1	5	4	12	<50	--	--	--
11/30/09[11]	97.81	84.53	13.28	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
06/07/10[11]	97.81	84.62	13.19	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	<50	--	--	--
12/08/10[11]	97.81	83.93	13.88	190	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
06/13/11[11]	97.81	83.75	14.06	<41[14]	<50[14]	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
12/02/11[11]	**97.81**	**84.39**	**13.42**	**<520[14]**	**<520[14]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**3.8**	**<150**	**--**	**--**	**--**
MW-3															
05/29/97	97.86	86.41	11.45	--	--	--	--	--	--	--	--	--	--	--	--
06/04/97[3]	97.86	86.58	11.28	--	1200	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	ND	1.0	--
09/16/97	97.86	85.67	12.19	--	2,700[1]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/17/97	97.86	87.06	10.80	--	1,200[1]	<50	0.9	0.53	<0.5	<0.5	<2.5	--	--	--	--
03/18/98	97.86	86.98	10.88	--	820[1]	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
06/28/98	97.86	86.26	11.60	--	1,100[1]	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	0.99	ND	<0.5-<5.0
09/07/98	97.86	85.64	12.22	--	1,100[1]	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	0.79	0.54	--
12/29/98	97.86	86.06	11.80	--	1,760[1]	185	<0.5	<0.5	<0.5	0.669	<2.0	--	1.04	0.578	<0.5-<5.0
03/11/99	97.86	86.83	11.03	--	1440	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	<1.0	<1.0	<1.0-<20
05/04/99	97.86	86.43	11.43	--	--	--	--	--	--	--	--	--	--	--	--
06/29/99	97.86	85.71	12.15	--	690[1]	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	0.754	<0.5	<0.5-<5.0
09/29/99	97.86	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--
12/08/99	97.86	88.43	9.43	--	1,000[1]	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	<0.5	0.66	<0.5-<5.0
03/01/00	97.86	87.16	10.70	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	0.821	0.984	<0.5-<5.0
06/23/00	97.86	85.96	11.90	--	2,600[5]	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<2.0	<2.0	<0.5-<2.0
09/30/00	97.86	85.45	12.41	--	1,100[5]	<50	<0.50	0.61	<0.50	0.82	2.7	--	<2.0	<2.0	<0.50-<2.0
12/08/00	97.86	85.78	12.08	--	870[5]	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	<2.0	<2.0	<0.50-<10
03/01/01	97.86	87.09	10.77	--	1,060[6]	60.9[7]	<0.500	<0.500	<0.500	<0.500	<2.50	--	0.545	0.528	<0.500-<5.00
06/19/01	97.86	85.87	11.99	--	120[5]	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	<1.2	<1.6	<0.50-<2.0
09/18/01	97.86	85.19	12.67	--	4,800	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1[8]	<2[8]	<1-<2[8]
12/26/01	97.86	86.92	10.94	--	5,000	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1[8]	<2[8]	<1-<2.0[8]
03/06/02	98.78	87.20	11.58	--	30,000	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1[8]	<2[8]	<1-<2.0[8]
06/21/02	98.78	86.23	12.55	--	3,800[10]	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1[8]	<2[8]	<1-<2.0[8]
09/27/02	98.78	85.93	12.85	--	2,000	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1[8]	<2[8]	<1-<2.0[8]
12/26/02	98.78	87.87	10.91	--	3,600	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1[8]	<2[8]	<1-<2.0[8]
03/28/03	98.78	86.77	12.01	--	2,100	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	<1[8]	<1[8]	<0.8-<2[8]
06/16/03[11]	98.78	86.79	11.99	--	2,400	<50	<0.5	<0.5	<0.5	<1	<0.5	--	<1[8]	0.8[8]	<0.5-<2[8]
09/15/03[11]	98.78	86.07	12.71	--	4,300	<50	<0.5	<0.5	<0.5	<1	<0.5	<50	<1[8]	0.8[8]	<0.8-<2[8]
12/15/03[11]	98.78	87.23	11.55	--	3,200	<50	<0.5	0.7	<0.5	0.7	<0.5	<50	<1[8]	0.8[8]	<0.8-<2[8]
03/05/04[11]	98.78	87.66	11.12	--	8,000	<50	<0.5	0.6	<0.5	0.7	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
MW-3 (cont)															
06/18/04[11]	98.78	86.21	12.57	--	3,100	<50	<0.5	<0.5	<0.5	<1	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
09/17/04[11]	98.78	85.92	12.86	--	3,200	<50	<0.5	<0.7	<0.8	<1.6	<0.5	<50	<1[8]	<1[8]	<0.8-<2[8]
12/17/04[11]	98.78	87.63	11.15	--	2,800	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
03/14/05[11]	98.78	88.21	10.57	--	1,300	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
06/13/05[11]	98.78	86.45	12.33	--	2,700	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
09/12/05[11]	98.78	85.89	12.89	--	2,000[12]	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
12/12/05[11]	98.78	87.40	11.38	--	3,900[12]	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
03/13/06[11]	98.78	88.43	10.35	--	2,800	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
06/12/06[11]	98.78	87.05	11.73	--	3,600	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
09/11/06[11]	98.78	86.42	12.36	--	4,000	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
12/15/06[11]	98.78	86.91	11.87	--	3,100	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
03/16/07[11]	98.78	87.55	11.23	--	1,800	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
06/15/07[11]	98.78	86.97	11.81	--	2,000	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<2[8]	<0.5[8]	<0.8-<2[8]
09/14/07[11]	98.78	86.31	12.47	--	1,600	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
12/07/07[11]	98.78	86.02	12.76	--	2,200	<50	<0.5	<0.5	<0.5	<1.0	<0.5	330	<1[8]	<0.5[8]	<0.8-<2[8,13]
03/07/08[11]	98.78	86.95	11.83	--	6,500	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
06/06/08[11]	98.78	86.51	12.27	--	2,800	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
09/05/08[11]	98.78	86.13	12.65	--	2,400	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
12/15/08[11]	98.78	86.12	12.66	--	8,700	<50	<0.5	<0.5	<0.5	<1.0	<0.5	230	<1[8]	<0.5[8]	<0.8-<2[8]
03/16/09[11]	98.78	86.42	12.36	--	4,900	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
06/15/09[11]	98.78	86.33	12.45	--	5,900	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
11/30/09[11]	98.78	86.92	11.86	--	4,400	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
06/07/10[11]	98.78	87.13	11.65	--	1,800[14]	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<50	<1[8]	<0.5[8]	<0.8-<2[8]
12/08/10[11]	98.78	85.82	12.96	4,000	7,300[14]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
06/13/11[11]	98.78	87.09	11.69	38,000[14]	19,000[14]	<50	<0.5	2	<0.5	<0.5	<0.5	<50	--	--	--
12/02/11[11]	**98.78**	**87.34**	**11.44**	**4,100[14]**	**2,000[14]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<0.50**	**<150**	**--**	**--**	**--**
MW-4															
05/04/99	96.25	83.66	12.59	--	--	140	<0.5	0.62	0.67	2.6	<2.5	--	--	--	--
06/29/99	96.25	83.64	12.61	--	--	183	<0.5	<0.5	1.1	<0.5	<5.0	--	--	--	--
09/29/99	96.25	83.70	12.55	--	--	64.3	<0.5	<0.5	<0.5	1.18	<2.5	--	--	--	--
12/08/99	96.25	83.81	12.44	--	--	91.2	0.589	<0.5	0.52	<0.5	86	--	--	--	--
03/01/00	96.25	84.55	11.70	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
06/23/00	96.25	84.12	12.13	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
09/30/00	96.25	84.30	11.95	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
12/08/00	96.25	83.85	12.40	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--
03/01/01	96.25	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--
06/19/01	96.25	82.83	13.42	--	--	210[7]	7.6	1.4	<0.50	<0.50	10	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
MW-4 (cont)															
09/18/01	96.25	83.17	13.08	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
12/26/01	96.25	83.36	12.89	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
03/06/02	97.14	84.06	13.08	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
06/21/02	97.14	83.63	13.51	--	--	<50	<0.50	12	<0.50	<1.5	<2.5	--	--	--	--
09/27/02	97.14	83.47	13.67	--	--	110	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
12/26/02	97.14	84.12	13.02	--	--	<50	<0.50	2.6	<0.50	<1.5	<2.5	--	--	--	--
03/28/03	97.14	83.71	13.43	--	--	<50	<0.50	<0.50	<0.50	<1.5	18	--	--	--	--
06/16/03[11]	97.14	83.10	14.04	--	--	250	<0.5	31	<0.5	<0.5	<0.5	--	--	--	--
09/15/03[11]	97.14	82.93	14.21	--	--	220	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/15/03[11]	97.14	84.30	12.84	--	--	310	<0.5	21	<0.5	1	<0.5	<50	--	--	--
03/05/04[11]	97.14	84.00	13.14	--	--	<50	<0.5	0.7	<0.5	0.6	5	<50	--	--	--
06/18/04[11]	97.14	83.14	14.00	--	--	220	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
09/17/04[11]	97.14	83.06	14.08	--	--	97	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/17/04[11]	97.14	83.77	13.37	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.9	<50	--	--	--
03/14/05[11]	97.14	83.69	13.45	--	--	<50	<0.5	0.8	<0.5	<0.5	1	<50	--	--	--
06/13/05[11]	97.14	83.53	13.61	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	<50	--	--	--
09/12/05[11]	97.14	83.34	13.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/12/05[11]	97.14	83.54	13.60	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
03/13/06[11]	97.14	83.95	13.19	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
06/12/06[11]	97.14	83.27	13.87	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.7	<50	--	--	--
09/11/06[11]	97.14	82.98	14.16	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.7	<50	--	--	--
12/15/06[11]	97.14	83.96	13.18	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.9	<50	--	--	--
03/16/07[11]	97.14	83.44	13.70	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.6	<50	--	--	--
06/15/07[11]	97.14	83.23	13.91	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.6	<50	--	--	--
09/14/07[11]	97.14	83.12	14.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/07/07[11]	97.14	82.91	14.23	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
03/07/08[11]	97.14	83.22	13.92	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
06/06/08[11]	97.14	83.23	13.91	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.5	<50	--	--	--
09/05/08[11]	97.14	83.12	14.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/15/08[11]	97.14	83.05	14.09	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.8	<50	--	--	--
03/16/09[11]	97.14	83.58	13.56	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
06/15/09[11]	97.14	83.05	14.09	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
11/30/09[11]	97.14	83.56	13.58	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
06/07/10[11]	97.14	83.88	13.26	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/08/10[11]	97.14	83.01	14.13	190	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
06/13/11[11]	97.14	84.07	13.07	1,900[14]	2,000[14]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/02/11[11]	97.14	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
MW-5															
03/06/02[9]	95.71	84.31	11.40	--	--	4,900	18	2.7	29	9.8	290	--	--	--	--
06/21/02	95.71	83.29	12.42	--	--	1,400	3.6	1.4	<0.50	1.6	190	--	--	--	--
09/27/02	95.71	83.00	12.71	--	--	540	1.3	<0.50	<0.50	<1.5	190	--	--	--	--
12/26/02	95.71	85.55	10.16	--	--	2,600	5.0	0.86	3.6	3.7	170	--	--	--	--
03/28/03	95.71	84.25	11.46	--	--	920	3.8	<0.50	2.1	1.7	160	--	--	--	--
06/16/03[11]	95.71	83.92	11.79	--	--	600	3	0.9	0.7	0.9	150	--	--	--	--
09/15/03[11]	95.71	83.28	12.43	--	--	760	<0.5	<0.5	<0.5	<0.5	180	<50	--	--	--
12/15/03[11]	95.71	85.01	10.70	--	--	1,200	0.7	0.5	0.6	0.8	120	<50	--	--	--
03/05/04[11]	95.71	84.65	11.06	--	--	1,800	2	0.7	0.7	2	60	<50	--	--	--
06/18/04[11]	95.71	83.54	12.17	--	--	1,700	<0.5	<0.5	<0.5	<0.5	77	<50	--	--	--
09/17/04[11]	95.71	83.35	12.36	--	--	1,900	<0.5	<0.5	<0.5	0.6	73	<50	--	--	--
12/17/04[11]	95.71	84.91	10.80	--	--	1,200	1	<0.5	<0.5	0.6	41	<50	--	--	--
03/14/05[11]	95.71	85.26	10.45	--	--	1,400	9	<0.5	<0.5	<0.5	19	<50	--	--	--
06/13/05[11]	95.71	83.82	11.89	--	--	760	<0.5	<0.5	<0.5	<0.5	16	<50	--	--	--
09/12/05[11]	95.71	83.43	12.28	--	--	610	<0.5	<0.5	<0.5	<0.5	22	<50	--	--	--
12/12/05[11]	95.71	84.63	11.08	--	--	630	<0.5	<0.5	<0.5	<0.5	13	63	--	--	--
03/13/06[11]	95.71	85.45	10.26	--	--	1,100	1	<0.5	<0.5	0.5	9	<50	--	--	--
06/12/06[11]	95.71	83.91	11.80	--	--	460	<0.5	<0.5	<0.5	<0.5	10	<50	--	--	--
09/11/06[11]	95.71	83.30	12.41	--	--	510	<0.5	<0.5	<0.5	<0.5	10	<50	--	--	--
12/15/06[11]	95.71	85.21	10.50	--	--	1,000	0.7	<0.5	<0.5	<0.5	6	<50	--	--	--
03/16/07[11]	95.71	84.71	11.00	--	--	430	<0.5	<0.5	<0.5	<0.5	8	<50	--	--	--
06/15/07[11]	95.71	83.83	11.88	--	--	420	<0.5	<0.5	<0.5	<0.5	5	<50	--	--	--
09/14/07[11]	95.71	83.39	12.32	--	--	380	<0.5	<0.5	<0.5	<0.5	6	<50	--	--	--
12/07/07[11]	95.71	83.14	12.57	--	--	420	<0.5	<0.5	<0.5	<0.5	3	<50	--	--	--
03/07/08[11]	95.71	84.20	11.51	--	--	400	<0.5	<0.5	<0.5	<0.5	4	<50	--	--	--
06/06/08[11]	95.71	83.51	12.20	--	--	400	<0.5	<0.5	<0.5	<0.5	4	<50	--	--	--
09/05/08[11]	95.71	83.33	12.38	--	--	470	<0.5	<0.5	<0.5	<0.5	6	<50	--	--	--
12/15/08[11]	95.71	83.25	12.46	--	--	<50	<0.5	<0.5	<0.5	<0.5	3	<50	--	--	--
03/16/09[11]	95.71	85.11	10.60	--	--	720	<0.5	<0.5	<0.5	<0.5	4	<50	--	--	--
06/15/09[11]	95.71	83.25	12.46	--	--	490	<0.5	<0.5	<0.5	<0.5	2	<50	--	--	--
11/30/09[11]	95.71	83.81	11.90	--	--	330	<0.5	<0.5	<0.5	<0.5	3	<50	--	--	--
06/07/10[11]	95.71	83.88	11.83	--	--	310	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
12/08/10[11]	95.71	84.18	11.53	14,000	--	320	<0.5	<0.5	<0.5	<0.5	2	<50	--	--	--
06/13/11[11]	95.71	84.13	11.58	<42[14]	240[14]	240	<0.5	<0.5	<0.5	<0.5	0.9	<50	--	--	--
12/02/11[11]	**95.71**	**84.03**	**11.68**	**<500[14]**	**<500[14]**	**180**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**1.4**	**<150**	**--**	**--**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
MW-6															
03/06/02[9]	95.84	85.67	10.17	--	--	220	<0.50	<0.50	<0.50	<1.5	53	--	--	--	--
06/21/02	95.84	84.86	10.98	--	--	<50	<0.50	<0.50	<0.50	<1.5	15	--	--	--	--
09/27/02	95.84	84.61	11.23	--	--	<50	<0.50	<0.50	<0.50	<1.5	11	--	--	--	--
12/26/02	95.84	87.47	8.37	--	--	57	<0.50	<0.50	<0.50	<1.5	19	--	--	--	--
03/28/03	95.84	85.53	10.31	--	--	<50	<0.50	<0.50	<0.50	<1.5	11	--	--	--	--
06/16/03[11]	95.84	85.50	10.34	--	--	<50	<0.5	0.6	<0.5	<0.5	5	--	--	--	--
09/15/03[11]	95.84	84.84	11.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	6	<50	--	--	--
12/15/03[11]	95.84	86.49	9.35	--	--	<50	<0.5	<0.5	<0.5	<0.5	4	<50	--	--	--
03/05/04[11]	95.84	87.04	8.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
06/18/04[11]	95.84	85.04	10.80	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	<50	--	--	--
09/17/04[11]	95.84	84.84	11.00	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	<50	--	--	--
12/17/04[11]	95.84	86.32	9.52	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	<50	--	--	--
03/14/05[11]	95.84	86.94	8.90	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.8	<50	--	--	--
06/13/05[11]	95.84	85.37	10.47	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
09/12/05[11]	95.84	85.16	10.68	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
12/12/05[11]	95.84	86.15	9.69	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
03/13/06[11]	95.84	87.16	8.68	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
06/12/06[11]	95.84	85.03	10.81	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.7	<50	--	--	--
09/11/06[11]	95.84	84.80	11.04	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.6	<50	--	--	--
12/15/06[11]	95.84	86.82	9.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.7	<50	--	--	--
03/16/07[11]	95.84	86.06	9.78	--	--	<50	<0.5	<0.5	<0.5	<0.5	1	<50	--	--	--
06/15/07[11]	95.84	84.99	10.85	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.7	<50	--	--	--
09/14/07[11]	95.84	85.71	10.13	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.9	<50	--	--	--
12/07/07[11]	95.84	85.39	10.45	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
03/07/08[11]	95.84	85.75	10.09	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.9	<50	--	--	--
06/06/08[11]	95.84	84.79	11.05	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.7	<50	--	--	--
09/05/08[11]	95.84	84.66	11.18	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.8	<50	--	--	--
12/15/08[11]	95.84	84.58	11.26	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.9	<50	--	--	--
03/16/09[11]	95.84	86.33	9.51	--	--	<50	<0.5	<0.5	<0.5	<0.5	2	<50	--	--	--
06/15/09[11]	95.84	84.82	11.02	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.5	<50	--	--	--
11/30/09[11]	95.84	84.98	10.86	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.8	<50	--	--	--
06/07/10[11]	95.84	85.34	10.50	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/08/10[11]	95.84	85.88	9.96	520	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
06/13/11[11]	95.84	85.25	10.59	<40[14]	<50[14]	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
12/02/11[11]	95.84	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
TRIP BLANK															
06/04/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
09/16/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/17/97	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/18/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
06/28/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
09/07/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
09/07/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
12/29/98	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--
03/11/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--
05/04/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
06/29/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
09/29/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
12/08/99	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/01/00	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
06/23/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
09/30/00	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
12/08/00	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--
03/01/01	--	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--
06/19/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
09/18/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
QA															
12/26/01	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
03/06/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
06/21/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
09/27/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
12/26/02	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
03/28/03	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
06/16/03[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/15/03[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/15/03[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/05/04[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
06/18/04[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/17/04[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/17/04[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/14/05[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
06/13/05[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/12/05[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/12/05[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/13/06[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
06/12/06[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/11/06[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/15/06[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/16/07[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
06/15/07[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/14/07[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/07/07[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
03/07/08[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
06/06/08[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
09/05/08[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/15/08[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-9708

5910 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-MO (µg/L)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL (µg/L)	1,2-DCB♦ (µg/L)	1,2-DCA♦ (µg/L)	HVOCs♦ (µg/L)
QA (cont)															
03/16/09[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
06/15/09[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/30/09[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
06/07/10[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/08/10[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
06/13/11[11]	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--
12/02/11[11]	**--**	**--**	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**<0.50**	**<150**	**--**	**--**	**--**

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 23, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elev
(msl) = Mean sea level
DTW = Depth to Water
TPH = Total Petroleum H
DRO = Diesel Range Orga
GRO = Gas
B = Benzen
T = Toluene
E = Ethylbe
X = Xylenes
MTBE = M
1,2-DCB =
1,2-DCA = 1,2-Dichloroethane
(µg/L) = Micrograms per liter
(ppb) = Parts per billion
HVOC = Halogenated Volatile Organic Compounds
ND = Not Detected
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed in February 2002, by Morrow Surveying. Elevations are based on City of Oakland Benchmark; a standard city of Oakland disc stamped "SEC 50 STA F" set under a standard casting on the monument line of Camden Street and 72 feet westerly of the monument at Seminary and Camden, (Elevation = 90.63 feet).

♦ Analysis by EPA Method 8010.

NOTE: All other VOC concentrations were below detection limits.

1 Chromatogram pattern indicates an unidentified hydrocarbon.
2 Confirmation run.
3 Sample also analyzed for the following: Total Oil & Grease by EPA Method 5520F was ND; Semivolatile Organics by EPA Method 8270B were ND; Volatile Organics by EPA Method 8010B were ND.
4 Laboratory report indicates gasoline C6-C12.
5 Laboratory report indicates unidentified hydrocarbons >C16.
6 Laboratory report indicates unidentified hydrocarbons C9-C24.
7 Laboratory report indicates unidentified hydrocarbons C6-C12.
8 Volatile Organic Compounds (VOCs) by EPA Method 8260.
9 Well development performed.
10 Laboratory report indicates the observed sample pattern is not typical of diesel/#2 fuel oil.
11 BTEX and MTBE analyzed by EPA Method 8260.
12 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
13 Laboratory report indicates Chloroform at 7 ppb.
14 Analyzed with Silica Gel cleanup.

Table 2

Groundwater Analytical Results

Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard
Oakland, California

WELL ID/ DATE	Cd (µg/L)	Cr (µg/L)	Pb (µg/L)	Ni (µg/L)	Zn (µg/L)	PCBs (µg/L)
MW-3						
12/08/10	<2.0	<3.4	<6.9	<8.1	19,000	<1.16

EXPLANATIONS:

Cd = Cadmium (Dissolved)
Cr = Total Chromium (Dissolved)
Pb = Lead (Dissolved)
Ni = Nickel (Dissolved)
Zn = Zinc (Dissolved)
PCBs = Pesticides/Polychlorinated Biphenyls (inclusive of PCB-1016, PCB-1221, PCB-1232, PCB-1242, PC-1248, PCB-1254, PCB-1260, PCB-1262 and PCB-1268)
(µg/L) = Micrograms per liter

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

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Facility Global ID:	**T0600102093**
Facility Name:	**CHEVRON #9-9708**
File Name:	**440-15517-1_02 Jul 12 1517_EDF.zip**
Organization Name:	**ARCADIS US**
Username:	**RKANDRESEN**
IP Address:	**216.207.98.101**
Submittal Date/Time:	**7/17/2012 12:17:03 PM**
Confirmation Number:	**8529250383**

VIEW QC REPORT

VIEW DETECTIONS REPORT

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	**GEO_WELL**
Report Title:	**1SA2012 GEO WELL**
Facility Global ID:	**T0600102093**
Facility Name:	**CHEVRON #9-9708**
File Name:	**GEO_WELL.zip**
Organization Name:	**ARCADIS US**
Username:	**RKANDRESEN**
IP Address:	**216.207.98.101**
Submittal Date/Time:	**8/8/2012 12:17:09 PM**
Confirmation Number:	**7215589165**