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January 23, 2011

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

RECEIVED

9:49 am, Feb 01, 2012

Alameda County
Environmental Health

Dear Mr. Detterman:

Attached for your review is the *Second Semiannual 2011 Groundwater Monitoring Report* for former Chevron Service Station No. 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,

A handwritten signature in blue ink that reads "Rob Speer".

Rob Speer

Chevron Environmental Management Company



ARCADIS U.S., Inc.
950 Glenn Drive
Suite 125
Folsom
California 95630
Tel 916-985-2079
Fax 916-985-2093
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Mr. Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
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1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

ENVIRONMENT

Subject:

Second Semiannual 2011 Groundwater Monitoring Report
Former Chevron Service Station No. 9-9708
5910 MacArthur Boulevard
Oakland, California
Fuel Leak Case No. RO0000124

Date:
January 23, 2012

Contact:
Thomas M. Potter

Dear Mr. Detterman:

Phone:
916.985.2079 ext. 31

ARCADIS has prepared this *Second Semiannual 2011 Groundwater Monitoring Report* on behalf of Chevron Environmental Management Company (Chevron) to document the results of groundwater monitoring and sampling at former Chevron Station No. 9-9708, located at 5910 MacArthur Boulevard in Oakland, California (Figure 1).

Email:
Thomas.Potter@
arcadis-us.com

Our ref:
B0060901.9708

Groundwater Monitoring and Sampling

Groundwater monitoring and sampling was performed by Blaine Tech Services, Inc. (BTS) of San Jose, California on December 2, 2011. 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-4 requires a City of Oakland encroachment permit to set up traffic control and access the well; however, due to an encroachment permit moratorium by the City of Oakland overlapping the monitoring and sampling schedule of the site, an encroachment permit was not able to be procured and the well was not accessible during this event. 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

Imagine the result

phase hydrocarbons (SPH) were not observed during the second semiannual 2011, 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) [C₂₄-C₄₄] and total petroleum hydrocarbons as diesel (TPH-DRO) [C₁₃-C₂₃] by United States Environmental Protection Agency (USEPA) Method 8015B, with silica gel clean-up
- Total petroleum hydrocarbons as gasoline (TPH-GRO) [C₄-C₁₂] 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 second semiannual 2011 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 semiannual groundwater sampling event are included in Attachment 2. The historical waste oil groundwater sampling data is included in Table 2.

Summary and Conclusions

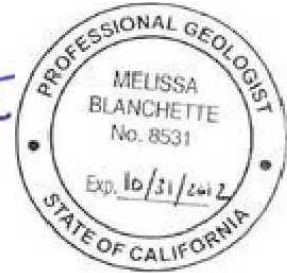
- Groundwater flowed to the west across the site, at an approximate horizontal hydraulic gradient of 0.030 feet per foot (ft/ft)
- Concentrations of petroleum hydrocarbon constituents detected in groundwater samples collected from the well network were consistent with the results of recent sampling events

Sincerely,

ARCADIS U.S., Inc.


Thomas M. Potter
Associate Project Manager


Melissa Blanchette, PG (CA 8531)
Senior Geologist



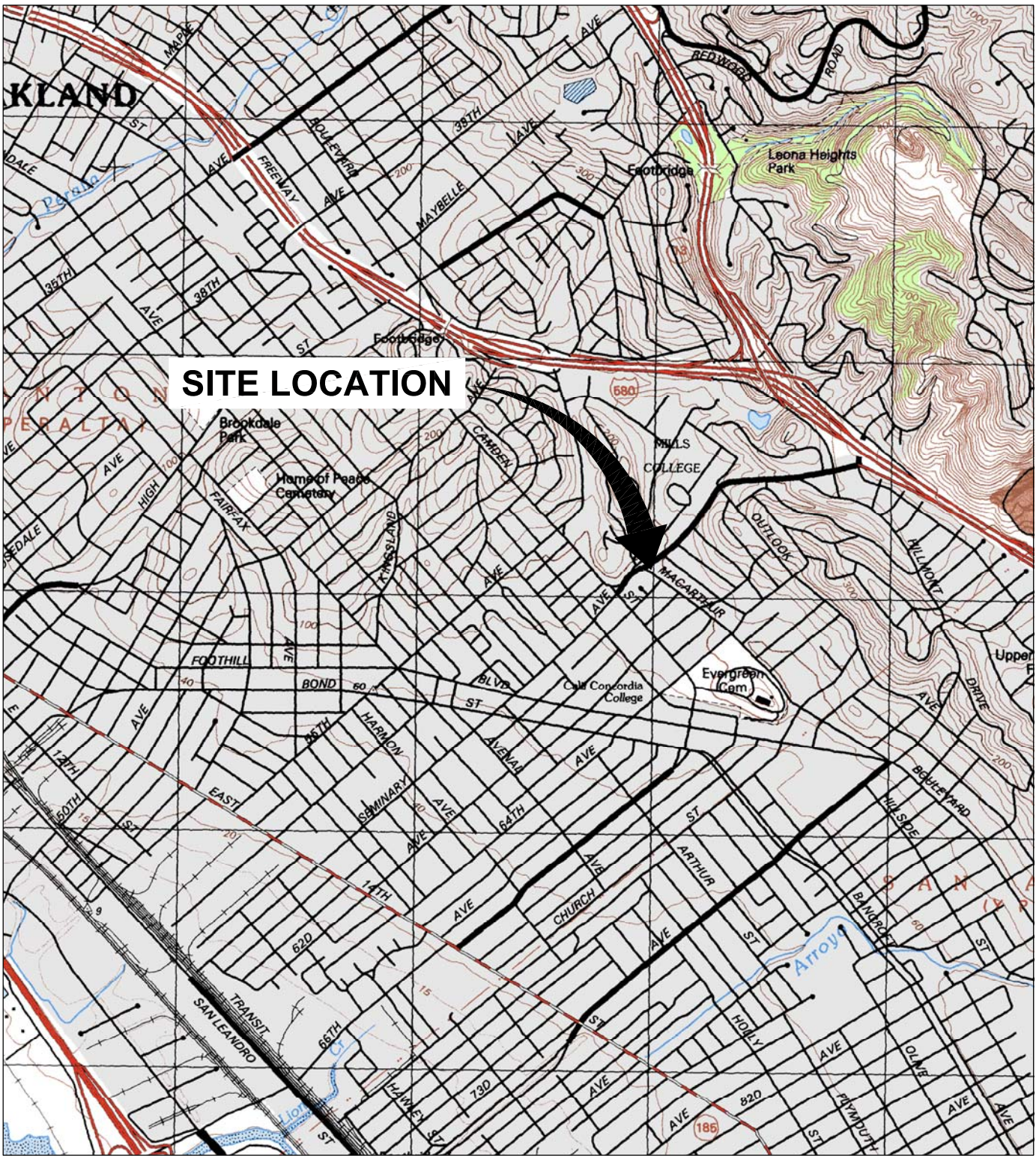
Enclosures:

- Figure 1 Site Plan
- Figure 2 Groundwater Elevation Contour Map - Second Semiannual 2011
- Figure 3 Concentration Map - Second Semiannual 2011
- Table 1 Groundwater Monitoring Data and Analytical Results
- Table 2 Groundwater Analytical Results
- Attachment 1 Groundwater Monitoring and Sampling Field Data Sheets
- Attachment 2 Laboratory Analytical Report and Chain-of-Custody Record

Copies:

- Mr. Robert Speer – Chevron, electronic copy
- Mr. Nisson Saidon, Property Owner

CITY:(SYRACUSE) DIV:(GROUP:ENV/IN4-DV) DB:(HOWES) LD:(Opt) PIC:(NA) PM:(B/WALL) TM:(Opt) LY:(Opt) OFF=REF
 G:\ENVCAD\STRACUSE\ACT180609019708\0000\INDWG\60901\INDWG_LAYOUT:1_SAVED:1/12/2012 8:12 AM *ACADVER: 18.15 (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/12/2012 8:13 AM BY: HOWES, DAVID
 XREFS: IMAGES: PROJECTNAME: CA_Oakland_East.rif CA_Oakland_East.rif



SITE LOCATION

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



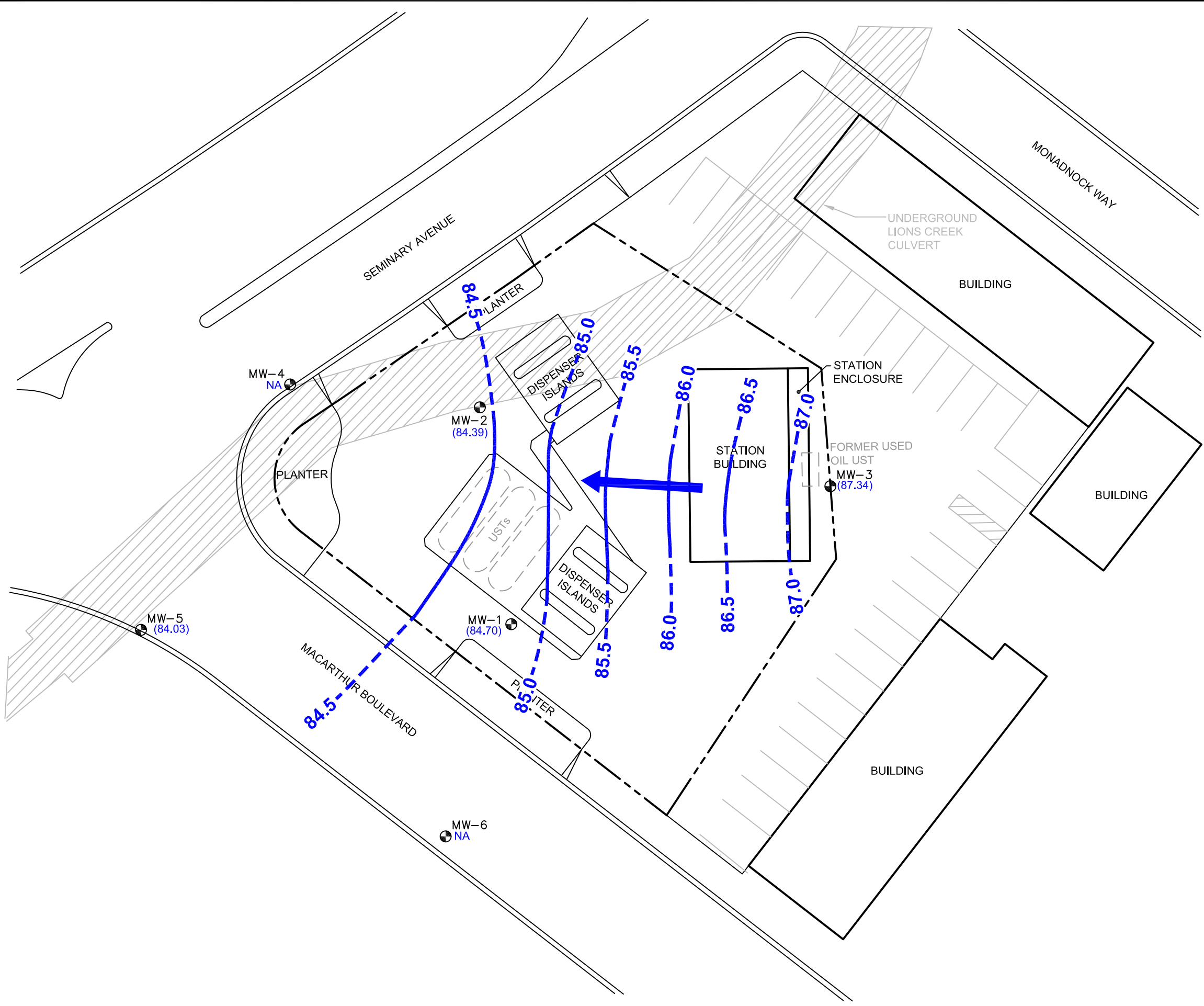
FORMER CHEVRON SERVICE STATION NO. 9-9708
 5910 MACARTHUR BOULEVARD, OAKLAND, CA

SITE LOCATION MAP



FIGURE
1

CITY: SYRACUSE, NY; DIV: GROUP: ENV/IM-DV; DB: P. LISTER; PM/TM: R. ANDRESEN; TR: B.L. WALL; LXR: ON=OFF=REF; G:\ENVCAD\SYRACUSE\ACT\B0060901\19708\00001\DWG\60901W01.dwg; LAYOUT: 2; SAVED: 1/12/2012 1:47 PM; ACADVER: 18.1S (LMS TECH); PAGES: 1; PLOT: 1/12/2012 1:47 PM; BY: LISTER, PAUL; XREFS: IMAGES: PROJECTNAME: --

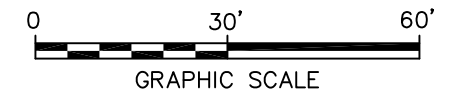


LEGEND:

- PROPERTY LINE
- MONITORING WELL
- (UST) UNDERGROUND STORAGE TANK
- (87.34) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- 84.5 — 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.



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

**GROUNDWATER ELEVATION CONTOUR
MAP - SECOND SEMI ANNUAL 2011**


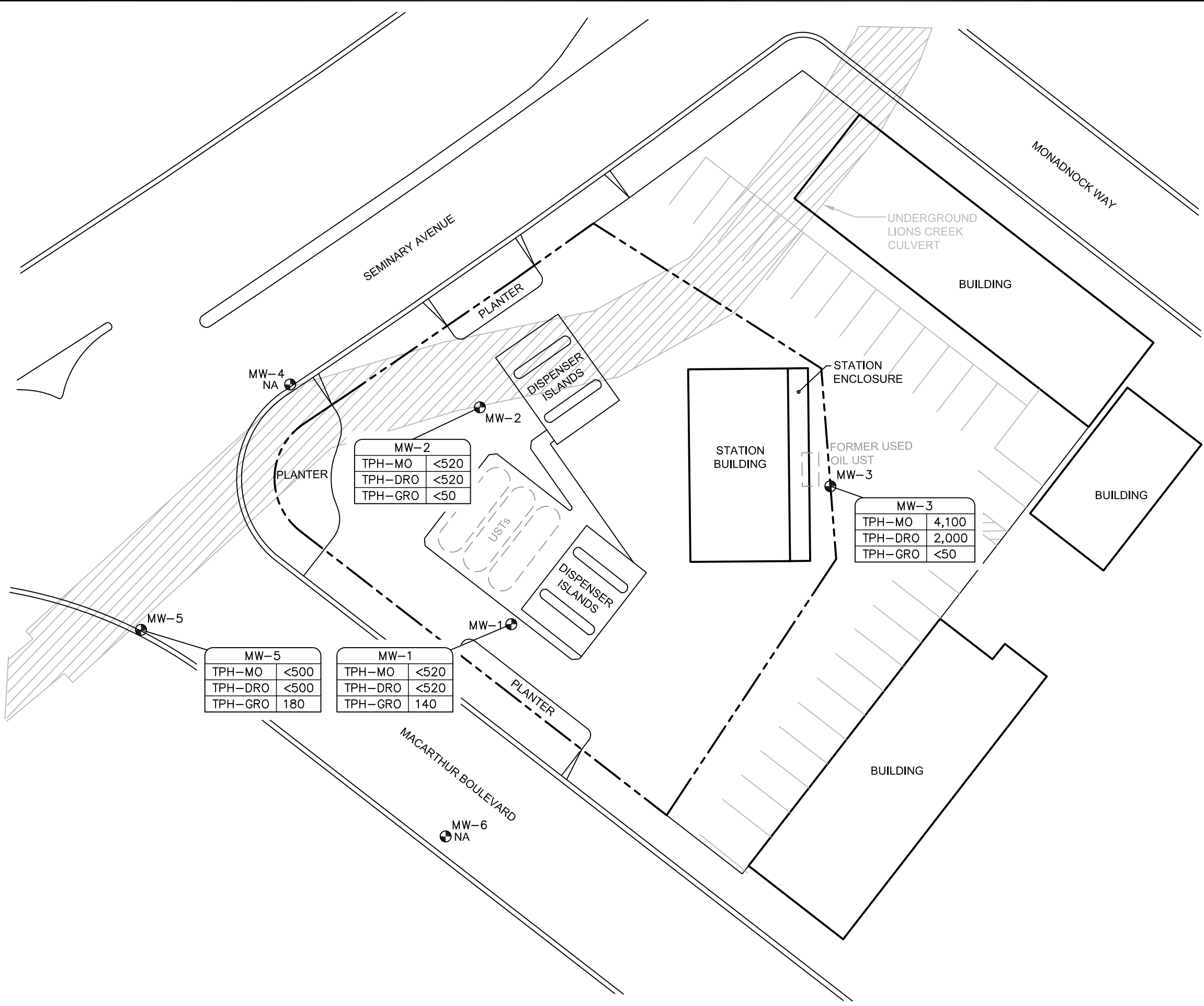


FIGURE
2

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: P. LISTER PM/TM: R. ANDRESEN TR: BL WALL LVR: ON=OFF=REF
 GAENVCAD/SYRACUSE/ACT/B006090/119708/0001/DWG/60901C01.dwg LAYOUT: 3 SAVED: 11/22/2012 1:50 PM ACADVER: 18.1S (LMS TECH) PAGES: 18
 PLOTSTYLE/TABLE: PLT/FULL.CTB PLOTTED: 1/12/2012 1:50 PM BY: LISTER, PAUL
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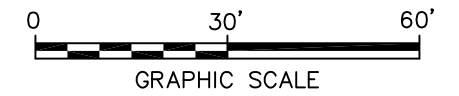


LEGEND:

- 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
- 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.
3. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER.



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

CONCENTRATION MAP - SECOND SEMI-ANNUAL 2011

FIGURE 3

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	--	--	--
12/02/11¹¹	97.52	84.70	12.82	<520¹⁴	<520¹⁴	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	--	--	--

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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	--	--	--
12/02/11¹¹	97.81	84.39	13.42	<520¹⁴	<520¹⁴	<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-<2.0
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

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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	--	--	--
12/02/11¹¹	98.78	87.34	11.44	4,100¹⁴	2,000¹⁴	<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	--	--	--	--

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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	--	--	<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	--	--	--	--	--	--	--	--	--	--	--	--	--

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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	--	--	--

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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		--	--	--	--	--	--	--	--	--	--	--	--

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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	--	--	--	--

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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	--	--	--	--
12/02/11¹¹	--	--	--	--	--	<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 GRO = Gas
(ft.) = Feet B = Benzene (µg/L) = Micrograms per liter
GWE = Groundwater Elev T = Toluene (ppb) = Parts per billion
(msl) = Mean sea level E = Ethylbenzene
DTW = Depth to Water X = Xylenes ND = Not Detected
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
MTBE = Methyl Tertiary Butyl Ether
-- = 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 ($\mu\text{g/L}$)	Cr ($\mu\text{g/L}$)	Pb ($\mu\text{g/L}$)	Ni ($\mu\text{g/L}$)	Zn ($\mu\text{g/L}$)	PCBs ($\mu\text{g/L}$)
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)

($\mu\text{g/L}$) = Micrograms per liter

ARCADIS

Attachment 1

Groundwater Monitoring and
Sampling Field Data Sheets

WELL GAUGING DATA

Project # 11202-PH2 Date 12/2/11 Client Chevron

Site 5910 MacArthur Blvd, Oakland

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	1147	2					12.52	19.98	↓	
MW-2	1152	2				13.42	20.02			
MW-3	1209	2				11.44	20.00			
MW-4	2	Unable to Access - Traffic Control								Traffic
MW-5	1203	2				11.68	18.61			Traffic
MW-6	2	Parked over								↓

CHEVRON WELL MONITORING DATA SHEET

Project #: <u>11202-PH2</u>	Station #: <u>9-9705</u>
Sampler: <u>PH</u>	Date: <u>12/2/11</u>
Weather: <u>clear</u>	Ambient Air Temperature: <u>70°F</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <input checked="" type="radio"/> 2 3 4 6 8 _____
Total Well Depth: <u>19.98</u>	Depth to Water: <u>12.82</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC _____ Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>14.25</u>	

Purge Method: Sampling Method: Bailer

 Bailer Waterra Disposable Bailer

 Disposable Bailer Peristaltic Extraction Port

 Positive Air Displacement Extraction Pump Dedicated Tubing

 Electric Submersible Other _____ Other: _____

1.1 (Gals.) X 3 = 3.4 Gals.

I 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 <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1242	69.3	7.1	859	352	1.2	
1244	69.2	7.0	858	>1000	2.2	
1247	68.6	6.9	863	>1000	3.5	DTW 16.60

Did well dewater? Yes No Gallons actually evacuated: 3.5

Sampling Date: 12/2/11 Sampling Time: 1245 Depth to Water: 14.60 (Site Reported)

Sample I.D.: MW-1 Laboratory: Lancaster Other Test American

Analyzed for: TPH-G BTEX MTBE OXYS Other: See 50W

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 #: <u>11202-PH2</u>	Station #: <u>9-9708</u>
Sampler: <u>PH</u>	Date: <u>12/2/11</u>
Weather: <u>clear</u>	Ambient Air Temperature: <u>70°F</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth: <u>20.02</u>	Depth to Water: <u>13.42</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>14.74</u>	

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:

<u>1.0</u> (Gals.) X	<u>3</u>	<u>=</u>	<u>3.2</u> 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 <u>μS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1222</u>	<u>68.7</u>	<u>6.6</u>	<u>803</u>	<u>>1000</u>	<u>1</u>	
<u>1224</u>	<u>68.7</u>	<u>6.5</u>	<u>766</u>	<u>>1000</u>	<u>2</u>	
<u>1227</u>	<u>68.6</u>	<u>6.6</u>	<u>794</u>	<u>>1000</u>	<u>3.5</u>	<u>DTW 18.02</u>

Did well dewater? Yes No Gallons actually evacuated: 3.5

Sampling Date: 12/2/11 Sampling Time: 1350 Depth to Water: 16.25 (site dependent)

Sample I.D.: MW-2 Laboratory: Lancaster Other Test America

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

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 #: <u>11202-PH2</u>	Station #: <u>9-9708</u>
Sampler: <u>PH</u>	Date: <u>12/2/11</u>
Weather: <u>Clear</u>	Ambient Air Temperature: <u>70°F</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>20.00</u>	Depth to Water: <u>11.44</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>13.15</u>	

Purge Method: Bailer Waterra Disposable Bailer
 Disposable Bailer Peristaltic Extraction Port
 Positive Air Displacement Extraction Pump Dedicated Tubing
 Electric Submersible Other _____ Other: _____

<u>1.3</u>	(Gals.) X	<u>3</u>	=	<u>4.1</u>	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 <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1333</u>	<u>70.0</u>	<u>7.6</u>	<u>297</u>	<u>154</u>	<u>1.5</u>	
<u>1335</u>	<u>69.8</u>	<u>7.0</u>	<u>293</u>	<u>148</u>	<u>2.7</u>	
<u>1338</u>	<u>70.3</u>	<u>7.0</u>	<u>317</u>	<u>139</u>	<u>4.2</u>	<u>DTW 15.50</u>

Did well dewater? Yes No Gallons actually evacuated: 4.2

Sampling Date: 12/2/11 Sampling Time: 1420 Depth to Water: 14.35 (Site Dependent)

Sample I.D.: MW-3 Laboratory: Lancaster Other Fox America

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

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 #: 11202-PH2	Station #: 9-9708
Sampler: PA	Date: 12/2/11
Weather: clear	Ambient Air Temperature: 70°F
Well I.D.: MW-4	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 Waterra Disposable Bailer Peristaltic Positive Air Displacement Extraction Pump Electric Submersible Other _____

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

	(Gals.) X _____	= _____	Gals.
I 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
						unable to access well due to city restrictions - Holiday monitoring on traffic control

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ Laboratory: Lancaster Other _____

Analyzed for: TPH-G BTEX MTBE OXYS Other: _____

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):	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 11202-PH2	Station #: 9-9708
Sampler: PH	Date: 12/2/11
Weather: clear	Ambient Air Temperature: 70°F
Well I.D.: MW-5	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: 18.61	Depth to Water: 11.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.06	

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: _____

1.1	(Gals.) X	3	=	3.3	Gals.
I 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 μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1302	68.0	7.1	840	>1000	1.2	
1304	67.7	6.8	838	>1000	2.2	
1306	67.7	6.8	837	>1000	3.5	

Did well dewater? Yes No Gallons actually evacuated: 3.5

Sampling Date: 12/2/11 Sampling Time: 1310 Depth to Water: 15.70 (Total)

Sample I.D.: MW-5 Laboratory: Lancaster Other EA America

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

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

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY IWM TO THEIR FACILITY IN SAN JOSE, CALIFORNIA.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Ave. San Jose CA (408)573-0555). Blaine Tech Services, Inc. is authorized by CHEVRON PRODUCTS COMPANY (CHEVRON) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the CHEVRON facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Chevron facility to BTS; from one Chevron facility to BTS via another Chevron facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of CHEVRON.

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 Rob Speer
 CHEVRON # Chevron Engineer

5910 MacArthur Blvd Oakland CA
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
<u>MW-1</u>	<u>1 3.5</u>	<u>/</u>	<u>/</u>
<u>MW-2</u>	<u>1 3.5</u>	<u>/</u>	<u>/</u>
<u>MW-3</u>	<u>1 4.2</u>	<u>/</u>	<u>/</u>
<u>MW-5</u>	<u>1 3.5</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
added equip.		any other	
rinse water <u>1 4</u>		adjustments <u>/</u>	
TOTAL GALS.		loaded onto	
RECOVERED <u>29</u>		BTS vehicle # <u>81</u>	
BTS event # <u>11202-PB2</u>	time <u>1300</u>	date <u>12/2/11</u>	
signature <u>[Signature]</u>			

REC'D AT	time	date	
		<u>/ /</u>	
unloaded by			
signature _____			

ARCADIS

Attachment 2

Laboratory Analytical Report and
Chain-of-Custody Record

LABORATORY REPORT

Prepared For: Arcadis US Inc Irvine (former Costa Mesa)
320 Commerce, Suite 200
Irvine, CA 92602
Attention: Thomas Potter

Project: Chevron - 9-9708
5910 McArthur Blvd., Oakland
CA

Sampled: 12/02/11
Received: 12/06/11
Issued: 01/13/12 13:48

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL
INFORMATION:

The report is reissued with MTBE results and DRO results in ug/L

LABORATORY ID

IUL0768-01
IUL0768-02
IUL0768-03
IUL0768-04
IUL0768-05

CLIENT ID

MW-1
MW-2
MW-3
MW-5
TB-20111202

MATRIX

Water
Water
Water
Water
Water

Reviewed By:



TestAmerica Irvine

Sushmitha Reddy
Project Manager

Arcadis US Inc Irvine (former Costa Mesa)
320 Commerce, Suite 200
Irvine, CA 92602
Attention: Thomas Potter

Project ID: Chevron - 9-9708
5910 McArthur Blvd., Oakland CA
Report Number: IUL0768

Sampled: 12/02/11
Received: 12/06/11

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL0768-01 (MW-1 - Water)								
Reporting Units: ug/l								
DRO (C13-C23)	EPA 8015B	11L1231	520	ND	1.04	12/9/2011	12/15/2011	L
ORO (C24-C44)	EPA 8015B	11L1231	520	ND	1.04	12/9/2011	12/15/2011	L
EFH (C13 - C44)	EPA 8015B	11L1231	520	ND	1.04	12/9/2011	12/15/2011	L
Surrogate: n-Octacosane (45-120%)				78 %				
Sample ID: IUL0768-02 (MW-2 - Water)								
Reporting Units: ug/l								
DRO (C13-C23)	EPA 8015B	11L1231	520	ND	1.04	12/9/2011	12/15/2011	L
ORO (C24-C44)	EPA 8015B	11L1231	520	ND	1.04	12/9/2011	12/15/2011	L
EFH (C13 - C44)	EPA 8015B	11L1231	520	ND	1.04	12/9/2011	12/15/2011	L
Surrogate: n-Octacosane (45-120%)				66 %				
Sample ID: IUL0768-03RE1 (MW-3 - Water)								
Reporting Units: ug/l								
DRO (C13-C23)	EPA 8015B	11L2733	1500	2000	3.03	12/20/2011	12/21/2011	
ORO (C24-C44)	EPA 8015B	11L2733	1500	4100	3.03	12/20/2011	12/21/2011	
EFH (C13 - C44)	EPA 8015B	11L2733	1500	6100	3.03	12/20/2011	12/21/2011	
Surrogate: n-Octacosane (45-120%)				139 %				
Sample ID: IUL0768-04 (MW-5 - Water)								
Reporting Units: ug/l								
DRO (C13-C23)	EPA 8015B	11L1231	500	ND	1	12/9/2011	12/15/2011	L
ORO (C24-C44)	EPA 8015B	11L1231	500	ND	1	12/9/2011	12/15/2011	L
EFH (C13 - C44)	EPA 8015B	11L1231	500	ND	1	12/9/2011	12/15/2011	L
Surrogate: n-Octacosane (45-120%)				79 %				

TestAmerica Irvine

Sushmitha Reddy
Project Manager

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Attention: Thomas Potter

Project ID: Chevron - 9-9708
5910 McArthur Blvd., Oakland CA
Report Number: IUL0768

Sampled: 12/02/11
Received: 12/06/11

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL0768-01 (MW-1 - Water)								
Reporting Units: ug/l								
GRO (C4 - C12)	EPA 8015B	11L1513	50	140	1	12/12/2011	12/12/2011	
Surrogate: 4-BFB (FID) (65-140%)				101 %				
Sample ID: IUL0768-02 (MW-2 - Water)								
Reporting Units: ug/l								
GRO (C4 - C12)	EPA 8015B	11L1513	50	ND	1	12/12/2011	12/12/2011	
Surrogate: 4-BFB (FID) (65-140%)				110 %				
Sample ID: IUL0768-03 (MW-3 - Water)								
Reporting Units: ug/l								
GRO (C4 - C12)	EPA 8015B	11L1513	50	ND	1	12/12/2011	12/12/2011	
Surrogate: 4-BFB (FID) (65-140%)				107 %				
Sample ID: IUL0768-04 (MW-5 - Water)								
Reporting Units: ug/l								
GRO (C4 - C12)	EPA 8015B	11L1513	50	180	1	12/12/2011	12/12/2011	
Surrogate: 4-BFB (FID) (65-140%)				134 %				
Sample ID: IUL0768-05 (TB-20111202 - Water)								
Reporting Units: ug/l								
GRO (C4 - C12)	EPA 8015B	11L1513	50	ND	1	12/12/2011	12/12/2011	
Surrogate: 4-BFB (FID) (65-140%)				104 %				

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Project Manager

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IUL0768 <Page 3 of 12>

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Attention: Thomas Potter

Project ID: Chevron - 9-9708
5910 McArthur Blvd., Oakland CA
Report Number: IUL0768

Sampled: 12/02/11
Received: 12/06/11

VOLATILE ORGANICS with OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL0768-01 (MW-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11L1148	0.50	1.7	1	12/9/2011	12/10/2011	
Ethylbenzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Toluene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
m,p-Xylenes	EPA 8260B	11L1148	1.0	ND	1	12/9/2011	12/10/2011	
o-Xylene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Xylenes, Total	EPA 8260B	11L1148	1.5	ND	1	12/9/2011	12/10/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11L1148	0.50	14	1	12/9/2011	12/10/2011	
Ethanol	EPA 8260B	11L1148	150	ND	1	12/9/2011	12/10/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				106 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				97 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				106 %				
Sample ID: IUL0768-02 (MW-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Ethylbenzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Toluene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
m,p-Xylenes	EPA 8260B	11L1148	1.0	ND	1	12/9/2011	12/10/2011	
o-Xylene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Xylenes, Total	EPA 8260B	11L1148	1.5	ND	1	12/9/2011	12/10/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11L1148	0.50	3.8	1	12/9/2011	12/10/2011	
Ethanol	EPA 8260B	11L1148	150	ND	1	12/9/2011	12/10/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				107 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				99 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				106 %				
Sample ID: IUL0768-03 (MW-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Ethylbenzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Toluene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
m,p-Xylenes	EPA 8260B	11L1148	1.0	ND	1	12/9/2011	12/10/2011	
o-Xylene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Xylenes, Total	EPA 8260B	11L1148	1.5	ND	1	12/9/2011	12/10/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Ethanol	EPA 8260B	11L1148	150	ND	1	12/9/2011	12/10/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				104 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				96 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				104 %				

TestAmerica Irvine

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Project ID: Chevron - 9-9708
5910 McArthur Blvd., Oakland CA
Report Number: IUL0768

Sampled: 12/02/11
Received: 12/06/11

VOLATILE ORGANICS with OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUL0768-04 (MW-5 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Ethylbenzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Toluene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
m,p-Xylenes	EPA 8260B	11L1148	1.0	ND	1	12/9/2011	12/10/2011	
o-Xylene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/10/2011	
Xylenes, Total	EPA 8260B	11L1148	1.5	ND	1	12/9/2011	12/10/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11L1148	0.50	1.4	1	12/9/2011	12/10/2011	
Ethanol	EPA 8260B	11L1148	150	ND	1	12/9/2011	12/10/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				109 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				101 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				106 %				
Sample ID: IUL0768-05 (TB-20111202 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/9/2011	
Ethylbenzene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/9/2011	
Toluene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/9/2011	
m,p-Xylenes	EPA 8260B	11L1148	1.0	ND	1	12/9/2011	12/9/2011	
o-Xylene	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/9/2011	
Xylenes, Total	EPA 8260B	11L1148	1.5	ND	1	12/9/2011	12/9/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11L1148	0.50	ND	1	12/9/2011	12/9/2011	
Ethanol	EPA 8260B	11L1148	150	ND	1	12/9/2011	12/9/2011	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>				107 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>				102 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>				105 %				

TestAmerica Irvine

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5910 McArthur Blvd., Oakland CA
Report Number: IUL0768

Sampled: 12/02/11
Received: 12/06/11

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11L1231 Extracted: 12/09/11										
Blank Analyzed: 12/15/2011 (11L1231-BLK1)										
DRO (C13-C23)	ND	500	ug/l							
ORO (C24-C44)	ND	500	ug/l							
EFH (C13 - C44)	ND	500	ug/l							
EFH (C10 - C28)	ND	500	ug/l							
Surrogate: n-Octacosane	288		ug/l	200		144	45-120			Z2
LCS Analyzed: 12/15/2011 (11L1231-BS1)										
EFH (C10 - C28)	1230	500	ug/l	1000		123	40-115			MNR1 L
Surrogate: n-Octacosane	244		ug/l	200		122	45-120			Z1
LCS Dup Analyzed: 12/15/2011 (11L1231-BSD1)										
EFH (C10 - C28)	1230	500	ug/l	1000		123	40-115	0.3	25	L
Surrogate: n-Octacosane	254		ug/l	200		127	45-120			Z1
Batch: 11L2733 Extracted: 12/20/11										
Blank Analyzed: 12/20/2011 (11L2733-BLK1)										
DRO (C13-C23)	ND	500	ug/l							
ORO (C24-C44)	ND	500	ug/l							
EFH (C13 - C44)	ND	500	ug/l							
EFH (C10 - C28)	ND	500	ug/l							
Surrogate: n-Octacosane	168		ug/l	200		84	45-120			
LCS Analyzed: 12/20/2011 (11L2733-BS1)										
EFH (C10 - C28)	827	500	ug/l	1000		83	40-115			MNR1
Surrogate: n-Octacosane	172		ug/l	200		86	45-120			

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 5910 McArthur Blvd., Oakland CA
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 Received: 12/06/11

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11L2733 Extracted: 12/20/11										
LCS Dup Analyzed: 12/20/2011 (11L2733-BSD1)										
EFH (C10 - C28)	763	500	ug/l	1000		76	40-115	8	25	
Surrogate: n-Octacosane	164		ug/l	200		82	45-120			

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 5910 McArthur Blvd., Oakland CA
 Report Number: IUL0768

Sampled: 12/02/11
 Received: 12/06/11

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/8015)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11L1513 Extracted: 12/12/11										
Blank Analyzed: 12/12/2011 (11L1513-BLK1)										
GRO (C4 - C12)	ND	50	ug/l							
Surrogate: 4-BFB (FID)	9.86		ug/l	10.0		99	65-140			
LCS Analyzed: 12/12/2011 (11L1513-BS1)										
GRO (C4 - C12)	703	50	ug/l	800		88	80-120			
Surrogate: 4-BFB (FID)	11.7		ug/l	10.0		117	65-140			
Matrix Spike Analyzed: 12/12/2011 (11L1513-MS1) Source: IUL0416-01										
GRO (C4 - C12)	257	50	ug/l	220	ND	117	65-140			
Surrogate: 4-BFB (FID)	12.6		ug/l	10.0		126	65-140			
Matrix Spike Dup Analyzed: 12/12/2011 (11L1513-MSD1) Source: IUL0416-01										
GRO (C4 - C12)	257	50	ug/l	220	ND	117	65-140	0.2	20	
Surrogate: 4-BFB (FID)	13.1		ug/l	10.0		131	65-140			

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Sampled: 12/02/11
Received: 12/06/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS with OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11L1148 Extracted: 12/09/11										
Blank Analyzed: 12/09/2011 (11L1148-BLK1)										
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.5	ug/l							
Ethanol	ND	150	ug/l							
Surrogate: 4-Bromofluorobenzene	26.0		ug/l	25.0		104	80-120			
Surrogate: Dibromofluoromethane	25.3		ug/l	25.0		101	80-120			
Surrogate: Toluene-d8	26.7		ug/l	25.0		107	80-120			
LCS Analyzed: 12/09/2011 (11L1148-BS1)										
Benzene	28.4	0.50	ug/l	25.0		114	70-120			
Ethylbenzene	28.4	0.50	ug/l	25.0		114	75-125			
Toluene	28.0	0.50	ug/l	25.0		112	70-120			
m,p-Xylenes	55.9	1.0	ug/l	50.0		112	75-125			
o-Xylene	28.1	0.50	ug/l	25.0		113	75-125			
Xylenes, Total	84.0	1.5	ug/l	75.0		112	70-125			
Ethanol	296	150	ug/l	250		119	40-155			
Surrogate: 4-Bromofluorobenzene	27.0		ug/l	25.0		108	80-120			
Surrogate: Dibromofluoromethane	25.8		ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	26.7		ug/l	25.0		107	80-120			
Matrix Spike Analyzed: 12/09/2011 (11L1148-MS1)										
Source: IUL0771-16										
Benzene	27.4	0.50	ug/l	25.0	ND	109	65-125			
Ethylbenzene	28.0	0.50	ug/l	25.0	ND	112	65-130			
Toluene	27.4	0.50	ug/l	25.0	ND	110	70-125			
m,p-Xylenes	56.3	1.0	ug/l	50.0	ND	113	65-130			
o-Xylene	27.5	0.50	ug/l	25.0	ND	110	65-125			
Xylenes, Total	83.8	1.5	ug/l	75.0	ND	112	60-130			
Ethanol	284	150	ug/l	250	ND	113	40-155			
Surrogate: 4-Bromofluorobenzene	27.2		ug/l	25.0		109	80-120			
Surrogate: Dibromofluoromethane	25.3		ug/l	25.0		101	80-120			
Surrogate: Toluene-d8	26.8		ug/l	25.0		107	80-120			

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Sampled: 12/02/11
 Received: 12/06/11

METHOD BLANK/QC DATA

VOLATILE ORGANICS with OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11L1148 Extracted: 12/09/11										
Matrix Spike Dup Analyzed: 12/09/2011 (11L1148-MSD1)					Source: IUL0771-16					
Benzene	27.2	0.50	ug/l	25.0	ND	109	65-125	0.6	20	
Ethylbenzene	27.2	0.50	ug/l	25.0	ND	109	65-130	3	20	
Toluene	26.9	0.50	ug/l	25.0	ND	107	70-125	2	20	
m,p-Xylenes	54.4	1.0	ug/l	50.0	ND	109	65-130	3	25	
o-Xylene	26.7	0.50	ug/l	25.0	ND	107	65-125	3	20	
Xylenes, Total	81.1	1.5	ug/l	75.0	ND	108	60-130	3	20	
Ethanol	296	150	ug/l	250	ND	118	40-155	4	30	
Surrogate: 4-Bromofluorobenzene	26.7		ug/l	25.0		107	80-120			
Surrogate: Dibromofluoromethane	24.9		ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	26.9		ug/l	25.0		108	80-120			

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5910 McArthur Blvd., Oakland CA
Report Number: IUL0768

Sampled: 12/02/11
Received: 12/06/11

DATA QUALIFIERS AND DEFINITIONS

- H-1** Sample analysis performed past the method-specified holding time per client's approval.
- L** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- Z1** Surrogate recovery was above acceptance limits.
- Z2** Surrogate recovery was above the acceptance limits. Data not impacted.
- ZX** Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For GRO (C4-C12):

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica Irvine

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5910 McArthur Blvd., Oakland CA
Report Number: IUL0768

Sampled: 12/02/11
Received: 12/06/11

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 8015B	Water	X	X
EPA 8260B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

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Project Manager

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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING
 135216
 TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Thomas Potter			Site Contact:		Date: 12/2/11		COC No:		
Arcadis - U.S., Inc. - Folsom		Tel/Fax: (916) 985-2079			Lab Contact: Sushmitha Reddy		Carrier:		1 of 1 COCs		
950 Glenn Drive, Suite 125		Analysis Turnaround Time			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				Job No.		
Folsom, CA 95630		Calendar (C) or Work Days (W) _____							SDG No.		
916-985-2079 Phone		TAT if different from Below _____							10L0768		
916-985-2096 FAX		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									
Project Name: 5910 MacArthur Blvd., Oakland, CA											
Site: 9-9708											
P O		Global ID: T0600102093					Sample Specific Notes:				
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
MW-1	12/2/11	1405		W	9		X	X	X	X	X
MW-2	↓	1350		↓	↓		X	X	X	X	X
MW-3	↓	1420		↓	↓		X	X	X	X	X
MW-4	↓	—		↓	↓		X	X	X	X	X
MW-5	↓	1310		↓	↓		X	X	X	X	X
MW-6	↓	—		↓	↓		X	X	X	X	X
TB- 20111202	↓	1140		↓	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						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments:											
Must meet lowest detection limits possible for 8260 compounds 2.5 ^{ug} 4.2											
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
		Daire Tech		12/2/11 1534				TASP		12-2-11 1534	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
		TASP		12-2-11 1745				TASP		12-2-11 1745	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
John Muller		TASP		12-5-11 1600				TA-I		12/6/11 10:15	