Ms. Barbara Jakub, P.G.
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Grimit Auto Repair and Service, 1970 Seminary Boulevard, Oakland, California (Fuel Leak Case No. RO0000413)

Dear Ms. Jakub:

Stratus Environmental, Inc. (Stratus) has recently prepared a report entitled *Quarterly Groundwater Monitoring and Sampling Report, Third Quarter 2012* on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000413, for Grimit Auto Repair and Service, 1970 Seminary Boulevard, Oakland, California.

I have reviewed a copy of this report, sent to me by representatives of Stratus, and "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge".

If you have any questions, please contact me via electronic mail at peggy.h.garcia@sbcglobal.net, or my daughter Angel LaMarca at angelcpt@gmail.com.

Sincerely,

Ms. Peggy Garcia, Trustee, Grimit Family Trust

Cc: Angel LaMarca

STRATUS
ENVIRONMENTAL, INC.

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

October 29, 2012
Project No. 2090-1970-01

Ms. Barbara Jakub, P.G.
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Groundwater Monitoring and Sampling Results Report, Third Quarter 2012
Grimit Auto Repair and Service
1970 Seminary Boulevard, Oakland, California
Fuel Leak Case No. RO0000413

Dear Ms. Jakub:

Stratus Environmental, Inc. (Stratus) is submitting the attached report, on behalf of Ms. Peggy Garcia, for the Grimit Auto Repair and Service underground storage tank fuel leak case, located at 1970 Seminary Boulevard, Oakland, California. This report presents a summary of activities completed during the third quarter 2012 and presents the findings of a groundwater monitoring and sampling event performed in July 2012. This report has been prepared in compliance with California Regional Water Quality Control Board (CRWQCB) requirements for underground storage tank (UST) investigations.

If you have any questions regarding this report, please contact Scott Bittinger at (530) 676-2062 or via email at sbittinger@stratusinc.net.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Scott G. Bittinger, P.G.
Project Manager

PROFESSIONAL GEOLOGIST
Scott G. Bittinger
No. 7477
STATE OF CALIFORNIA

Stephen J. Carter, P.G.
Senior Geologist

Attachment: Groundwater Monitoring and Sampling Results Report, Third Quarter 2012

cc: Ms. Peggy Garcia, Trustee, Grimit Family Trust *(email: peggy.h.garcia@sbcglobal.net)*
Ms. Angel LaMarca *(email: angelcpt@gmail.com)*

October 29, 2012

GRIMIT AUTO REPAIR & SERVICE
GROUNDWATER MONITORING AND SAMPLING RESULTS REPORT

Facility Address:	1970 Seminary Boulevard, Oakland, California
Consulting Co. / Contact Person:	Stratus Environmental, Inc. / Scott Bittinger, P.G.
Consultant Project No:	2090-1970-01
Primary Agency/Regulatory ID No:	Ms. Barbara Jakub, Alameda County Environmental Health Department (ACEHD), Fuel Leak Case No. RO0000413

WORK PERFORMED THIS QUARTER (Third 2012):

1. Stratus conducted groundwater monitoring and sampling activities on July 16, 2012. During this event, wells MW-1 through MW-9 were gauged to determine depth to groundwater, dissolved oxygen (DO), temperature, pH, oxygen reduction potential (ORP), conductivity and evaluated for the presence of free product. Following gauging, these wells were purged and sampled. Groundwater samples were forwarded to a state-certified analytical laboratory for analysis. Field data sheets, sampling procedures and laboratory analytical reports are included as Appendices A, B, and C, respectively. Analytical results of sampled wells and depth to groundwater measurements have been uploaded to the State of California's GeoTracker database. Documentation of these data uploads is attached in Appendix D.

2. On August 8, 2012, Stratus prepared and submitted a *Feasibility Study/Corrective Action Plan* for the site.

WORK PROPOSED FOR NEXT QUARTER (Fourth 2012):

1. In accordance with State Board Resolution No. 2009-0042, the frequency of groundwater monitoring and sampling for all site wells has been reduced to semi-annual (1st and 3rd quarters); therefore, no monitoring/sampling is planned for fourth quarter 2012.

2. After reviewing an ACEHD letter dated October 12, 2012, Stratus will prepare and submit an Addendum to the August 8, 2012 report.

Current Phase of Project:	RS/IRA
Frequency of Groundwater Monitoring:	All wells = Semi-annually (1st & 3rd quarters)
Frequency of Groundwater Sampling:	All wells = Semi-annually (1st & 3rd quarters)
Groundwater Sampling Date:	July 16, 2012
Is Free Product (FP) Present on Site:	No; *Sheen observed at MW-1, -5, and -7 (3Q12)*
Approximate Depth to Groundwater (Shallow Screened Wells):	5.31 to 12.48 feet below top of well casing
Approximate Depth to Groundwater (Deep Screened Wells)	12.18 to 21.53 feet below top of well casing
Groundwater Flow Direction and Gradient (Shallow Screened Wells):	West-Northwest; 0.13 ft/ft
Groundwater Flow Direction and Gradient (Deep Screened Wells):	East-southeast ; 0.14 to 0.26 ft/ft

DISCUSSION:

Stratus conducted groundwater monitoring and sampling activities on July 16, 2012. During this event, wells MW-1 through MW-9 were gauged, purged and sampled according to the requirements of the ACEHD-approved monitoring and sampling plan. Wells MW-1 and MW-9 purged dry prior to evacuation of three well casing volumes. Groundwater samples were forwarded to a state-certified analytical laboratory to be analyzed for gasoline range organics (GRO) by EPA Method 8015, benzene, toluene, ethylbenzene, and xylene (BTEX) compounds, methyl tertiary butyl ether (MTBE), tertiary amyl methyl ether (TAME), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary butyl alcohol (TBA), naphthalene, 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), halogenated volatile organic compounds (HVOCs) by EPA Method 8260B and oil & grease (O&G) with silica gel cleanup by EPA Method 1664A.

Shallow Screened Well Network

Four groundwater monitoring wells (MW-3, MW-6, MW-8 and MW-9) have been screened to monitor groundwater occurrence and quality beneath the site across the water table interface (referred to as "shallow screened"). At the time of the third quarter 2012 sampling event, depth to groundwater ranged from 5.31 to 12.48 feet below the top of the well casing. Groundwater elevations had increased between 0.09 to 1.03 feet in all wells, with the exception of well MW-8 which decreased 0.05 feet since the previous monitoring event (January 17, 2012). Depth-to-water measurements were converted to feet above mean sea level (MSL) and used to construct a groundwater elevation contour map (Figure 2). Groundwater flow was calculated to be towards the west-northwest, at a calculated gradient of approximately 0.13 ft/ft. Variable groundwater flow directions have been observed during historical work.

During the third quarter 2012 sampling event, concentrations of GRO were reported in monitoring wells MW-6 (500 micrograms per liter [µg/L]) and MW-9 (430 µg/L). Monitoring well MW-6 also reported concentrations of benzene, toluene, ethylbenzene and xylenes at 26 µg/L, 0.97 µg/L, 14 µg/L and 10.48 µg/L, respectively, and MW-9 reported very low concentrations of ethylbenzene (0.58 µg/L) and xylenes (0.72 µg/L). No fuel contaminants were detected in the MW-3 or MW-8 well samples; O&G and HVOCs levels were reported below laboratory instrument detection levels in the samples collected from wells MW-3, MW-6, MW-8, and MW-9. Analytical results of GRO, benzene and MTBE for groundwater samples collected during the third quarter 2012 are presented in Figure 4. Analytical results of select halogenated volatile organic compounds for groundwater samples collected during the third quarter 2012 are presented in Figure 5.

Deep Screened Well Network

Five groundwater monitoring wells (MW-1, MW-2, MW-4, MW-5 and MW-7) have been screened below the level of the site's fluctuating water table interface and thus often have submerged well screens; these wells are thus designated as the 'deep screened' wells at the site. Following gauging, all deep-screened wells were purged and sampled. A petroleum sheen was noted in wells MW-1, MW-5, and MW-7 at the time of sampling.

Depth to groundwater ranged from 12.18 to 21.53 feet below the top of the well casing. Depth-to-water measurements were converted to feet above MSL and used to construct a groundwater elevation contour map (Figure 3). At the time of the third quarter 2012 sampling event, groundwater elevations had increased between 0.81 and 1.82 feet in the network of deep screened wells since the previous monitoring event (January 17, 2012). Using groundwater elevation data from the 'deep screened' wells, an east-southeast groundwater flow direction with a calculated gradient between approximately 0.14 and 0.26 ft/ft was observed during the third quarter 2012 monitoring event.

O&G were reported in deep-screened wells MW-1 (73,000 and 41,000 µg/L with and without silica gel treatment, respectively) and MW-4 (42,000 and 26,000 µg/L with and without silica gel treatment, respectively) during the third quarter 2012. GRO and BTEX compounds were reported in all deep-screened wells, with the exception of MW-2 which only reported low concentrations of GRO (60 µg/L) and benzene (1.6 µg/L). Maximum concentrations of GRO and BTEX compounds were reported in well MW-1

(16,000, 270, 240, 590, and 832 µg/L, respectively) during the July 2012 sampling event. Monitoring well MW-4 additionally reported concentrations of MTBE (2.8 µg/L), 1,2-DCB (17 µg/L), cis-1-2-DCE (30 µg/L), trans-1-2-DCE (17 µg/L), and vinyl chloride (250 µg/L), and well MW-7 also reported concentrations of cis-1-2-DCE (180 µg/L) and vinyl chloride (52 µg/L). Analytical results of GRO, benzene, and MTBE; and select halogenated volatile organic compounds, for groundwater samples collected during the third quarter 2012, are included in Figures 4 and 5, respectively.

Free Product Measurement and Removal

No free product was noted during the third quarter 2012 sampling event; however, sheen was observed in deep wells MW-1, MW-5 and MW-7. To date, approximately 6.0 gallons of free product/water mixture has been removed from well MW-1. Table 5 details the free product thickness measurements and summarizes removal efforts.

ATTACHMENTS:

- Table 1 Groundwater Elevation Summary
- Table 2 Groundwater Analytical Summary for Petroleum Hydrocarbons
- Table 3 Analytical Results for Fuel Oxygenates and Additives
- Table 4 Analytical Results for Volatile Organic Compounds
- Table 5 Free Product Measurement and Removal Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map, Shallow Screened Wells
- Figure 3 Groundwater Elevation Contour Map, Deep Screened Wells
- Figure 4 Petroleum Hydrocarbon Groundwater Analytical Summary (3rd Quarter 2012)
- Figure 5 Halogenated VOC Groundwater Analytical Summary (3rd Quarter 2012)
- Appendix A Field Data Sheets
- Appendix B Sampling and Analyses Procedures
- Appendix C Laboratory Analytical Reports and Chain-of-Custody Documentation
- Appendix D GeoTracker Electronic Submittal Confirmations

TABLE 1
GROUNDWATER ELEVATION SUMMARY
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date	Depth to Water (ft)	Well Casing Elevation (ft MSL)	LPH Apparent Thickness (ft)	Groundwater Elevation (corrected*) (ft MSL)
MW-1	07/22/00	21.93	36.99	sheen	15.06
(deep)	01/29/01	19.49	36.99	0.01	17.51
	07/28/01	19.84	36.99	sheen	17.15
	02/03/02	16.03	36.99	0.01	20.97
	07/23/02	20.45	36.99	0.01	16.55
	01/20/03	15.08	36.99	0.02	21.92
	07/30/03	19.06	36.99	0.02	17.94
	01/27/04	16.45	36.99	sheen	20.54
	07/22/04	20.22	40.02	0.08	19.86
	01/20/05	13.92	40.02	sheen	26.10
	07/20/05	16.76	40.02	sheen	23.26
	01/26/06	14.40	40.02	0.01	25.63
	07/27/06	17.66	40.02	sheen	22.36
	01/24/07	17.43	40.02	0.02	22.60
	07/18/07	19.31	40.02	0.17	20.84
	02/15/08	14.80	40.02	0.02	25.23
	07/25/08	20.21	40.02	0.42	20.12
	1/23/2009 [1]	19.71	40.02	0.08	20.37
	07/20/09	19.58	40.02	0.125	20.53
	1/25/2010 [1]	13.69	40.02	0.125	26.42
	07/29/10	21.20	40.02	0.40	19.12
	01/31/11	19.12	40.02	0.21	21.06
	07/12/11	20.90	40.02	0.30	19.34
	01/17/12	20.89	42.91	0.06	22.06
	07/16/12	19.75	42.91	sheen	23.16
MW-2	07/22/00	13.73	36.40	--	22.67
(deep)	01/29/01	12.25	36.40	--	24.15
	7/28/2001 [1]	16.73	36.40	--	19.67
	02/03/02	11.40	36.40	--	25.00
	07/23/02	13.42	36.40	--	22.98
	01/20/03	10.49	36.40	--	25.91
	07/30/03	13.47	36.40	--	22.93
	01/27/04	11.72	36.40	--	24.68
	07/22/04	13.86	39.42	--	25.56
	01/20/05	10.24	39.42	--	29.18
	07/20/05	12.34	39.42	--	27.08
	01/26/06	10.60	39.42	--	28.82
	07/27/06	13.02	39.42	--	26.40
	01/24/07	15.76	39.42	--	23.66
	07/18/07	13.91	39.42	--	25.51
	02/15/08	10.94	39.42	--	28.48
	07/25/08	14.29	39.42	--	25.13
	1/23/2009 [1]	20.17	39.42	--	19.25
	07/20/09	15.16	39.42	--	24.26
	1/25/2010 [1]	15.66	39.42	--	23.76
	07/29/10	12.58	39.42	--	26.84
	01/31/11	20.15	39.42	--	19.27
	07/12/11	11.12	39.42	--	28.30
	01/17/12	13.47	42.32	--	28.85
	07/16/12	12.18	42.32	--	30.14

TABLE 1
GROUNDWATER ELEVATION SUMMARY

Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date	Depth to Water (ft)	Well Casing Elevation (ft MSL)	LPH Apparent Thickness (ft)	Groundwater Elevation (corrected*) (ft MSL)
MW-3	07/22/00	9.41	36.94	--	27.53
(shallow)	01/29/01	7.23	36.94	--	29.71
	07/28/01	8.63	36.94	--	28.31
	02/03/02	7.99	36.94	--	28.95
	07/23/02	10.17	36.94	--	26.77
	01/20/03	6.76	36.94	--	30.18
	07/30/03	10.13	36.94	--	26.81
	01/27/04	7.65	36.94	--	29.29
	07/22/04	11.29	39.95	--	28.66
	01/20/05	6.24	39.95	--	33.71
	07/20/05	9.03	39.95	--	30.92
	01/26/06	6.49	39.95	--	33.46
	07/27/06	8.80	39.95	--	31.15
	01/24/07	8.75	39.95	--	31.20
	07/18/07	11.29	39.95	--	28.66
	02/15/08	6.79	39.95	--	33.16
	07/25/08	12.40	39.95	--	27.55
	1/23/2009 [1]	9.72	39.95	--	30.23
	07/20/09	10.81	39.95	--	29.14
	1/25/2010 [1]	7.67	39.95	--	32.28
	07/29/10	10.42	39.95	--	29.53
	01/31/11	9.57	39.95	--	30.38
	07/12/11	9.87	39.95	--	30.08
	01/17/12	11.05	42.85	--	31.80
	07/16/12	10.45	42.85	--	32.40
MW-4	07/22/00	20.67	36.47	--	15.80
(deep)	01/29/01	18.06	36.47	--	18.41
	07/28/01	20.80	36.47	--	15.67
	02/03/02	15.53	36.47	--	20.94
	07/23/02	20.26	36.47	--	16.21
	01/20/03	15.26	36.47	--	21.21
	07/30/03	20.23	36.47	--	16.24
	01/27/04	17.15	36.47	--	19.32
	07/22/04	21.28	36.49	--	15.21
	01/20/05	14.20	36.49	--	22.29
	07/20/05	17.64	36.49	--	18.85
	01/26/06	14.42	36.49	--	22.07
	07/27/06	18.51	36.49	--	17.98
	01/24/07	18.43	36.49	--	18.06
	07/18/07	20.59	36.49	--	15.90
	02/15/08	15.11	36.49	--	21.38
	07/25/08	21.12	36.49	--	15.37
	1/23/2009 [1]	19.99	36.49	--	16.50
	07/20/09	20.58	36.49	--	15.91
	1/25/2010 [1]	15.07	36.49	--	21.42
	07/29/10	21.25	36.49	--	15.24
	01/31/11	18.24	36.49	--	18.25
	07/12/11	19.38	36.49	--	17.11
	01/17/12	22.34	42.39	--	20.05
	07/16/12	21.53	42.39	--	20.86

TABLE 1
GROUNDWATER ELEVATION SUMMARY

Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date	Depth to Water (ft)	Well Casing Elevation (ft MSL)	LPH Apparent Thickness (ft)	Groundwater Elevation (corrected*) (ft MSL)
MW-5	07/22/00	21.42	36.77	--	15.35
(deep)	01/29/01	20.79	36.77	--	15.98
	07/28/01	21.07	36.77	--	15.70
	02/03/02	17.67	36.77	--	19.10
	07/23/02	20.16	36.77	--	16.61
	01/20/03	17.21	36.77	--	19.56
	07/30/03	20.32	36.77	--	16.45
	01/27/04	18.34	36.77	--	18.43
	07/22/04	20.90	39.79	--	18.89
	01/20/05	15.89	39.79	--	23.90
	07/20/05	17.97	39.79	--	21.82
	01/26/06	15.49	39.79	--	24.30
	07/27/06	18.50	39.79	--	21.29
	01/24/07	18.76	39.79	--	21.03
	07/18/07	20.12	39.79	--	19.67
	2/15/2008 [1]	16.35	39.79	--	23.44
	07/25/08	20.57	39.79	--	19.22
	1/23/2009 [1]	19.42	39.79	--	20.37
	07/20/09	20.35	39.79	--	19.44
	1/25/2010 [1]	16.33	39.79	--	23.46
	07/29/10	19.47	39.79	--	20.32
	01/31/11	17.70	39.79	--	22.09
	07/12/11	17.91	39.79	--	21.88
	01/17/11	21.25	42.69	sheen	21.44
	07/16/12	19.74	42.69	sheen	22.95
MW-6	07/22/00	11.50	36.42	--	24.92
(shallow)	01/29/01	9.34	36.42	--	27.08
	07/28/01	NA	36.42	--	NA
	02/03/02	9.32	36.42	--	27.10
	07/23/02	11.33	36.42	--	25.09
	01/20/03	8.49	36.42	--	27.93
	07/30/03	11.35	36.42	--	25.07
	01/27/04	9.20	36.42	--	27.22
	07/22/04	11.13	39.44	--	28.31
	01/20/05	7.65	39.44	--	31.79
	07/20/05	10.02	39.44	--	29.42
	01/26/06	8.13	39.44	--	31.31
	07/27/06	10.59	39.44	--	28.85
	01/24/07	10.09	39.44	--	29.35
	07/18/07	11.06	39.44	--	28.38
	02/15/08	8.17	39.44	--	31.27
	07/25/08	11.30	39.44	--	28.14
	1/23/2009 [1]	9.82	39.44	--	29.62
	07/20/09	11.02	39.44	--	28.42
	1/25/2010 [1]	6.58	39.44	--	32.86
	07/29/10	10.72	39.44	--	28.72
	01/31/11	8.58	39.44	--	30.86
	07/12/11	9.32	39.44	--	30.12
	01/17/12	11.14	42.34	--	31.20
	07/16/12	10.11	42.34	--	32.23

TABLE 1
GROUNDWATER ELEVATION SUMMARY

Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date	Depth to Water (ft)	Well Casing Elevation (ft MSL)	LPH Apparent Thickness (ft)	Groundwater Elevation (corrected*) (ft MSL)
MW-7	07/22/00	19.85	36.83	--	16.98
(deep)	01/29/01	17.59	36.83	--	19.24
	07/28/01	20.05	36.83	--	16.78
	02/03/02	15.89	36.83	--	20.94
	07/23/02	19.57	36.83	--	17.26
	01/20/03	15.36	36.83	--	21.47
	07/30/03	19.21	36.83	--	17.62
	01/27/04	16.84	36.83	--	19.99
	07/22/04	20.17	39.84	--	19.67
	01/20/05	14.44	39.84	--	25.40
	07/20/05	17.26	39.84	--	22.58
	01/26/06	14.55	39.84	--	25.29
	07/27/06	18.13	39.84	--	21.71
	01/24/07	18.03	39.84	--	21.81
	07/18/07	19.76	39.84	--	20.08
	02/15/08	15.44	39.84	--	24.40
	7/25/2008 [1]	20.50	39.84	--	19.34
	01/23/09	19.08	39.84	--	20.76
	07/20/09	20.20	39.84	--	19.64
	1/25/2010 [1]	15.30	39.84	--	24.54
	07/29/10	19.60	39.84	--	20.24
	01/31/11	17.63	39.84	--	22.21
	07/12/11	17.77	39.84	--	22.07
	01/17/12	21.63	42.72	sheen	21.09
	07/16/12	19.81	42.72	sheen	22.91
MW-8	07/22/00	5.47	36.55	--	31.08
(shallow)	01/29/01	3.01	36.55	--	33.54
	07/23/02	5.11	36.55	--	31.44
	01/20/03	3.57	36.55	--	32.98
	07/30/03	5.23	36.55	--	31.32
	01/27/04	4.26	36.55	--	32.29
	07/22/04	5.42	36.55	--	31.13
	01/20/05	3.39	36.55	--	33.16
	07/20/10	5.14	39.49	--	34.35
	01/26/06	3.70	39.49	--	35.79
	07/27/06	5.63	39.49	--	33.86
	01/24/07	4.87	39.49	--	34.62
	07/18/07	5.41	39.49	--	34.08
	02/15/08	3.77	39.49	--	35.72
	07/25/08	5.67	39.49	--	33.82
	1/23/2009 [1]	3.55	39.49	--	35.94
	07/20/09	5.71	39.49	--	33.78
	1/25/2010 [1,2]	1.15	39.49	--	38.34
	07/29/10	5.40	39.49	--	34.09
	01/31/11	3.16	39.49	--	36.33
	07/12/11	4.63	39.49	--	34.86
	01/17/12	5.26	42.42	--	37.16
	07/16/12	5.31	42.42	--	37.11

TABLE 1
GROUNDWATER ELEVATION SUMMARY

Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date	Depth to Water (ft)	Well Casing Elevation (ft MSL)	LPH Apparent Thickness (ft)	Groundwater Elevation (corrected*) (ft MSL)
MW-9	07/22/00	15.78	36.70	--	20.92
(shallow)	01/29/01	14.65	36.70	--	22.05
	07/28/01	15.33	36.70	--	21.37
	02/03/02	12.59	36.70	--	24.11
	07/23/02	15.27	36.70	--	21.43
	01/20/03	12.27	36.70	--	24.43
	07/30/03	14.85	36.70	--	21.85
	01/27/04	11.72	36.70	--	24.98
	07/22/04	15.17	39.71	--	24.54
	01/20/05	10.16	39.71	--	29.55
	07/20/05	12.12	39.71	--	27.59
	01/26/06	10.12	39.71	--	29.59
	07/27/06	12.52	39.71	--	27.19
	01/24/07	12.63	39.71	--	27.08
	07/18/07	13.77	39.71	--	25.94
	02/15/08	10.78	39.71	--	28.93
	07/25/08	13.93	39.71	--	25.78
	1/23/2009 [1]	13.08	39.71	--	26.63
	07/20/09	13.63	39.71	--	26.08
	1/25/2010 [1]	11.35	39.71	--	28.36
	07/29/10	12.49	39.71	--	27.22
	01/31/11	11.98	39.71	--	27.73
	07/12/11	11.98	39.71	--	27.73
	01/17/12	12.57	42.61	--	30.04
	07/16/12	12.48	42.61	--	30.13

Legend/Key:

ft MSL = feet above mean sea level
[1] = Well possibly not calibrated
[2] = Well not stabilized; water level rising

TABLE 2
GROUNDWATER ANALYTICAL SUMMARY FOR PETROLEUM HYDROCARBONS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-1	07/22/00	37,000	320,000[1,2]	2,200	2,600	1,300	5,200	NS
(deep)	01/29/01	36,000	76,000[1,2]	2,100	2,300	1,200	4,500	NS
	07/28/01	99,000	86 000[1,2]	1,500	2,300	1,700	6,600	NS
	02/03/02	42,000	42,000[1,2]	1,200	1,300	1,100	3,900	NS
	07/23/02	53,000	170,000[1,2]	1,700	2,800	1,500	5,100	NS
	01/20/03	33,000	65,000[1,2]	2,100	2,500	1,300	4,400	NS
	07/30/03	24,000	55,000[1]	1,300	1,500	760	2,700	NS
	01/27/04	21,000	220,000[1]	1,600	1,500	1,100	3,200	NS
	07/22/04	31,000	780,000[1,2]	1,500	1,700	1,200	4,100	NS
	01/20/05	25000	72,000[1,2]	1,300	1400	1,000	2,800	NS
	07/20/05	22,000	500,000[1,2]	1,100	1,600	830	2,600	NS
	01/26/06	28000	64,000[1,2]	1,600	1,500	1,200	3,500	NS
	07/27/06	25,000	NA	810	1,000	1,100	3,200	NS
	01/25/07	32,000	170,000[1]	990	960	1,100	3,500	NS
	07/19/07	32,000	1,100,000[1]	600	740	950	2,500	NS
	02/15/08	28,000	3,500,000[1,2]	930	780	940	2,500	NS
	07/25/08	28,000	NA	540	580	750	2,000	NA
	01/23/09	52,000	1,000,000[1,2]	420	350	1,400	3,600	NS
	07/21/09	19,000	46,000[1]	530	500	890	2,300	NS
	01/25/10	23,000	140,000[1,2]	780	540	850	2,200	NS
	07/29/10			Not Sampled - Free Product present				
	01/31/11			Not Sampled - Free Product present				
	07/12/11			Not Sampled - Free Product present				
	01/17/12			Not Sampled - Free Product present				
	07/16/12	16,000	73,000 / 41,000[3]	270	240	590	832	NS

TABLE 2
GROUNDWATER ANALYTICAL SUMMARY FOR PETROLEUM HYDROCARBONS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-2	07/22/00	180	<5,000[1,2]	10	ND	4.5	6.0	NS
(deep)	01/29/01	130	<5,000[1,2]	16	ND	1.9	3.8	NS
	07/28/01	<50	<5,000[1,2]	2.7	ND	0.64	0.69	NS
	02/03/02	140	<5,000[1,2]	5.5	ND	9.0	12	NS
	07/23/02	780	<5,000[1,2]	52	2.0	44	6.2	NS
	01/20/03	1,900	<5,000[1,2]	120	10	120	94	NS
	07/30/03	710	<5,000[1,2]	43	1.8	24	5.9	NS
	01/27/04	180	<5,000[1,2]	10	<0.5	3.2	10	NS
	07/22/04	<50	<5,000[1,2]	0.90	<0.5	<0.5	<0.5	NS
	01/20/05	96	<5,000[1,2]	1.3	<0.5	1.5	1.0	NS
	07/20/05	430	<5,000[1,2]	17	1.5	2.3	1.2	NS
	01/26/06	120	<5,000[1,2]	5.3	<0.5	0.64	3.3	NS
	07/27/06	89	<5,000[1,2]	3.1	<0.5	1.9	3.1	NS
	01/25/07	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/19/07	100	<5,000[1,2]	1.1	<0.5	<0.5	<0.5	NS
	02/15/08	460	<5,000[1,2]	25	0.75	3.7	3.2	NS
	07/25/08	<50	<5,000[1,2]	0.66	<0.5	<0.5	<0.5	<0.5
	01/23/09	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/21/09	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	01/25/10	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/29/10	170	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	01/31/11	<50	<5,000	<0.50	<0.50	<0.50	0.60	NS
	07/12/11	410	<5,000	1.3	<0.50	0.55	<0.50	NS
	01/17/12	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	07/16/12	60	<5,000	1.6	<0.50	<0.50	<0.50	NS

TABLE 2
GROUNDWATER ANALYTICAL SUMMARY FOR PETROLEUM HYDROCARBONS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-3	07/22/00	230	<5,000[1,2]	0.89	2.4	ND	ND	NS
(shallow)	01/29/01	450	<5,000[1]	1.1	1.6	11	3.6	NS
	07/28/01	<50	<5,000[1]	<0.5	ND	ND	ND	NS
	02/03/02	98	<5,000[1]	<0.5	ND	ND	ND	NS
	07/23/02	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	01/20/03	700	<5,000[1]	1.6	0.56	41	21	NS
	07/30/03	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	01/27/04	85	<5,000[1]	<0.5	<0.5	<0.5	0.87	NS
	07/22/04	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	01/20/05	440	<5,000[1]	0.81	0.67	7.1	2.6	NS
	07/20/05	130	<5,000[1]	<0.5	1.2	<0.5	<0.5	NS
	01/26/06	790	<5,000[1]	1.0	1.0	12	3.4	NS
	07/27/06	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	01/25/07	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	07/19/07	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	02/15/08	74	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	07/25/08	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	<0.5
	01/23/09	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	07/21/09	<50	<5,000[1]	<0.5	<0.5	<0.5	<0.5	NS
	01/25/10	150	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/29/10	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	01/31/11	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	07/12/11	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	01/17/12	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	07/16/12	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS

TABLE 2
GROUNDWATER ANALYTICAL SUMMARY FOR PETROLEUM HYDROCARBONS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-4 (deep)	07/22/00	2,700	7,000[1,2]	940	14	31	12	NS
	01/29/01	2500	<5,000[1,2]	980	11	35	5	NS
	07/28/01	1,100	90,000[1,2]	250	6.3	19	4.8	NS
	02/03/02	2,100	7,400[1,2]	890	23	41	20	NS
	07/23/02	1,200	<5,000[1,2]	490	11	22	8.8	NS
	01/20/03	1,900	<5,000[1,2]	740	11	32	12	NS
	07/30/03	1,700	<5,000[1,2]	440	8.9	18	6.1	NS
	01/27/04	1,100	31,000[1,2]	350	10	17	5.0	NS
	07/22/04	910	54,000[1,2]	210	7.9	19	6.5	NS
	01/20/05	1,900	<5,000[1,2]	550	36	63	43	NS
	07/20/05	1,300	<5,000[1,2]	310	11	36	12	NS
	01/26/06	1,900	26,000[1,2]	500	16	40	12	NS
	07/27/06	980	85,000[1,2]	340	13	18	8.8	NS
	01/24/07	910	7,100[1,2]	230	5	15	4	NS
	07/18/07	960	<5,000[1,2]	150	3.9	9.9	3.4	NS
	02/15/08	1,500	12,000[1,2]	310	12	18	11	NS
	07/25/08	1,000	7,800[1,2]	54	3.1	5.5	2.0	4.7
	01/23/09	1,000	<5,000[1,2]	200	5	9.3	2.3	NS
	07/20/09	940	12,000[1,2]	230	8.8	6.5	8.0	NS
	01/25/10	1,000	29,000[1,2]	240	6.9	20	8.9	NS
	07/29/10	1,000	<5,000	190	7.8	15	4.0	NS
	01/31/11	1,300	20,000 / <5,000[3]	280	14	17	4.6	NS
	07/12/11	1,300	<5,000	88	5.8	18	0.84	NS
	01/17/12	950	<5,000	40	2.1	6.6	0.99	NS
	07/16/12	1,100	42,000 / 26,000[3]	130	9.8	12	4.1	NS

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GROUNDWATER ANALYTICAL SUMMARY FOR PETROLEUM HYDROCARBONS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-5	07/22/00	14,000	12,000[1,2]	290	140	770	630	NS
(deep)	01/29/01	8,200	11,000[1,2]	180	42	420	250	NS
	07/28/01	9,100	<5,000[1,2]	190	67	540	430	NS
	02/03/02	11,000	<5,000[1]	250	160	730	540	NS
	07/23/02	6,400	<5,000[1]	160	67	540	390	NS
	01/20/03	7,300	<5,000[1,2]	190	80	480	310	NS
	07/30/03	8,700	<5,000[1,2]	170	35	470	300	NS
	01/27/04	7,600	<5,000[1]	220	50	460	290	NS
	07/22/04	10,000	<5,000[1]	200	38	510	400	NS
	01/20/05	8,500	<5,000[1,2]	130	63	430	280	NS
	07/20/05	7,900	<5,000[1,2]	110	47	350	250	NS
	01/26/06	8,000	<5,000[1]	170	53	410	270	NS
	07/27/06	5,300	<5,000[1]	110	35	380	250	NS
	01/25/07	1,300	<5,000[1,2]	17	6.1	34	46	NS
	07/19/07	10,000	<5,000[1,2]	99	15	250	200	NS
	02/15/08	9,900	<5,000[1,2]	120	26	290	200	NS
	07/25/08	5,600	<5,000[1,2]	120	20	210	190	16
	01/23/09	6,600	<5,000[1,2]	68	18	220	110	NS
	07/21/09	5,600	<5,000[1]	81	21	210	160	NS
	01/25/10	2,800	<5,000[1,2]	32	11	100	64	NS
	07/29/10	2,900	<5,000	23	6.9	130	70.6	NS
	01/31/11	4,400	<5,000	25	12	170	78.1	NS
	07/12/11	5,700	<5,000	30	11	190	89	NS
	01/17/12	4,000	<5,000	25	5.4	150	54.1	NS
	07/16/12	3,700	<5,000	28	6.4	140	52.0	NS

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Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-6	07/22/00	2,200	<5,000[1,2]	290	9.6	80	43	NS
(shallow)	01/29/01	2,500	<5,000[1,2]	220	11	150	230	NS
	07/28/01	NA	<5,000[1,2]	NA	NA	NA	NA	NA
	02/03/02	2,500	<5,000[1,2]	290	18	88	330	NS
	07/23/02	1,100	<5,000[1,2]	160	6.5	54	35	NS
	01/20/03	3,800	<5,000[1,2]	370	33	220	300	NS
	07/30/03	2,000	<5,000[1,2]	250	4.8	50	24	NS
	01/27/04	2,600	<5,000[1,2]	420	20	170	180	NS
	07/22/04	1,200	<5,000[1,2]	110	3.2	36	17	NS
	01/20/05	3,100	<5,000[1,2]	280	21	180	250	NS
	07/20/05	730	<5,000[1,2]	66	4.4	25	26	NS
	01/26/06	1,900	<5,000[1,2]	180	12	120	140	NS
	07/27/06	670	<5,000[1,2]	120	5	17	15	NS
	01/25/07	650	<5,000[1,2]	99	2.7	20	16	NS
	07/19/07	4,200	<5,000[1,2]	360	18	47	55	NS
	02/15/08	2,100	<5,000[1,2]	200	10	100	97	NS
	07/25/08	370	<5,000[1,2]	27	3.1	2.2	2.7	<0.5
	01/23/09	330	<5,000[1,2]	69	3.6	11	8.1	NS
	07/21/09	290	<5,000[1,2]	40	1.9	9.3	7.8	NS
	01/25/10	740	<5,000[1,2]	80	4.9	54	62	NS
	07/29/10	220	<5,000	25	0.68	7.3	4.9	NS
	01/31/11	1,100	<5,000	85	5.3	75	69.4	NS
	07/12/11	610	<5,000	47	2.5	34	27	NS
	01/17/12	81	<5,000	13	0.62	4.6	5.8	NS
	07/16/12	500	<5,000	26	0.97	14	10.48	NS

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Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-7	07/22/00	7,400	10,000[1,2]	620	180	240	180	NS
(deep)	01/29/01	4,000	7,000[1,2]	410	21	22	21	NS
	07/28/01	4,200	<5,000[1,2]	540	120	110	110	NS
	02/03/02	6,300	<5,000[1,2]	560	110	190	140	NS
	07/23/02	3,400	<5,000[1,2]	440	6.3	87	61	NS
	01/20/03	4,500	<5,000[1,2]	380	32	30	36	NS
	07/30/03	5,300	<5,000[1,2]	460	34	43	52	NS
	01/27/04	3,000	<5,000[1,2]	350	15	13	18	NS
	07/22/04	3,600	<5,000[1,2]	440	10	10	25	NS
	01/20/05	3,200	19,000[1,2]	320	31	29	34	NS
	07/20/05	8,400	<5,000[1,2]	550	230	300	410	NS
	01/26/06	3,300	32,000[1,2]	450	31	45	37	NS
	07/27/06	3,800	<5,000[1,2]	530	85	38	94	NS
	01/25/07	2,500	<5,000[1,2]	320	6.9	3.3	10	NS
	07/19/07	2,700	<5,000[1,2]	280	10	5.9	18	NS
	02/15/08	2,900	27,000[1,2]	230	15	12	18	NS
	07/25/08	3,700	<5,000[1,2]	400	25	26	87	10
	01/23/09	2,500	<5,000[1,2]	230	5.4	2.9	5.6	NS
	07/21/09	3,400	<5,000[1,2]	230	75	33	140	NS
	01/25/10	3,900	5,200[1,2]	260	15	5.2	24	NS
	07/29/10	3,600	<5,000	190	38	13	67.6	NS
	01/31/11	5,400	14,000 / <5,000[3]	210	29	13	28.7	NS
	07/12/11	5,500	<5,000	150	45	7.9	51.9	NS
	01/17/12	3,300	<5,000	150	8.5	2.1	12.3	NS
	07/16/12	4,200	<5,000	160	41	31	31.4	NS

TABLE 2
GROUNDWATER ANALYTICAL SUMMARY FOR PETROLEUM HYDROCARBONS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-8	07/22/00	ND	<5,000[1,2]	ND	ND	ND	ND	NS
(shallow)	01/29/01	ND	<5,000[1,2]	0.87	ND	ND	ND	NS
	07/28/01	ND	<5,000[1,2]	ND	ND	ND	ND	NS
	02/03/02	ND	<5,000[1,2]	ND	ND	ND	ND	NS
	07/23/02	<50	<5,000[1,2]	0.87	<0.5	<0.5	<0.5	NS
	01/20/03	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/30/03	<50	<5,000[1,2]	2.0	<0.5	<0.5	<0.5	NS
	01/27/04	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/22/04	<50	<5,000[1,2]	1.2	<0.5	<0.5	<0.5	NS
	01/20/05	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/20/05	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	01/26/06	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/27/06	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	01/25/07	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/19/07	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	02/15/08	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/25/08	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	<0.5
	01/23/09	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/21/09	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	01/25/10	<50	<5,000[1,2]	<0.5	<0.5	<0.5	<0.5	NS
	07/29/10	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	01/31/11	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	07/12/11	61	<5,000	1.1	<0.50	<0.50	<0.50	NS
	01/17/12	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS
	07/16/12	<50	<5,000	<0.50	<0.50	<0.50	<0.50	NS

TABLE 2
GROUNDWATER ANALYTICAL SUMMARY FOR PETROLEUM HYDROCARBONS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)
MW-9	07/22/00	4,900	71,000[1.2]	93	15	240	250	NS
(shallow)	01/29/01	3,800	5,000	160	35	260	310	NS
	07/28/01	5,700	<5,000[1,2]	43	27	210	420	NS
	02/03/02	7,800	<5,000[1,2]	98	51	450	640	NS
	07/23/02	2,300	<5,000[1,2]	29	14	120	96	NS
	01/20/03	5,000	<5,000[1]	76	25	350	340	NS
	07/30/03	570	<5,000[1,2]	7.2	1.2	14	4.8	NS
	01/27/04	820	<5,000[1,2]	14	2.6	35	35	NS
	07/22/04	460	<5,000[1,2]	5.3	1.2	4.0	7.2	NS
	01/20/05	330	<5,000[1,2]	6.2	1.5	8.9	12	NS
	07/20/05	260	<5,000[1,2]	1.7	2.0	<0.5	1.2	NS
	01/26/06	260	<5,000[1]	1.0	2.9	<0.5	0.64	NS
	07/27/06	410	<5,000[1]	1.1	1.4	0.52	<0.5	NS
	01/24/07	440	<5,000[1]	1.4	1.5	2.9	7.5	NS
	07/18/07	300	<5,000[1]	1.4	2.4	0.51	<0.5	NS
	02/15/08	490	<5,000[1]	2.8	5.2	7.1	22	NS
	07/25/08	520	<5,000[1]	1.0	4.1	0.63	<0.5	<0.5
	01/23/09	250	<5,000[1]	<0.5	3.7	<0.5	1.5	NS
	07/20/09	910	<5,000[1,2]	2.5	4.8	2.6	2.4	NS
	01/25/10	550	<5,000[1,2]	2.2	6.5	11	33	NS
	07/29/10	670	<5,000	<0.50	<0.50	<0.50	1.1	NS
	01/31/11	560	<5,000	<0.50	<0.50	<0.50	0.80	NS
	07/12/11	930	<5,000	<0.50	<0.50	2.6	5.1	NS
	01/17/12	1,400	<5,000	<0.50	<0.50	2.8	4.8	NS
	07/16/12	430	<5,000	<0.50	<0.50	0.58	0.72	NS

TABLE 2
GROUNDWATER ANALYTICAL SUMMARY FOR PETROLEUM HYDROCARBONS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	GRO (µg/L)	Oil & Grease (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Napthalene (µg/L)

Legend/Key:
GRO = Gasoline range organics
ND= "not-detected" or below the
Oil and Grease = analyzed by EPA Method 1664A.
GRO = analyzed by EPA Method 8015B; all other analytes sampled by EPA Method 8260B
NA= Not available
NS= Not sampled
ft msl = feet above mean sea leve
µg/L = micrograms per liter
[1]=Gravimetric Method
[2]= HVOC detected
[3]= Reported as HEM / SGT HEM

TABLE 3
ANALYTICAL RESULTS FOR FUEL OXYGENATES AND ADDITIVES
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	1,2-EDB (µg/L)
MW-1	07/25/08	NA	NA	NA	NA	NA	NA	NA	NA	NA
(deep)	01/23/09	<5.0	61	<5.0	<5.0	<5.0	<5,000	<500	<5.0	<5.0
	07/21/09	<10.0	80	<10.0	<10.0	<10.0	<10,000	<1,000	<10.0	<10.0
	01/25/10	<5.0	<20	<5.0	<5.0	<5.0	<5,000	<500	<5.0	<5.0
	07/29/10				Not Sampled - Free Product present					
	01/31/11				Not Sampled - Free Product present					
	07/12/11				Not Sampled - Free Product present					
	01/17/12				Not Sampled - Free Product present					
	07/16/12	<10	<200	<20	<20	<20	NS	NS	<20	<40
MW-2	07/25/08	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	1.3	<0.5
(deep)	01/23/09	<0.5	2.4	<0.5	<0.5	<0.5	<500	<50	7.8	<0.5
	07/21/09	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	9.7	<0.5
	01/25/10	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	3.8	<0.5
	07/29/10	<0.50	<10	<1.0	<1.0	<1.0	<5,000	<5,000	1.2	<2.0
	01/31/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	9.5	<2.0
	07/12/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	01/17/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/16/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
MW-3	07/25/08	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
(shallow)	01/23/09	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/21/09	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	01/25/10	<0.5	2.4	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/29/10	<0.50	<10	<1.0	<1.0	<1.0	<5,000	<5,000	<1.0	<2.0
	01/31/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/12/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	01/17/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/16/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
MW-4	07/25/08	12	34	<2.5	<2.5	<2.5	<2,500	<250	<2.5	<2.5
(deep)	01/23/09	<5.0	<20	<5.0	<5.0	<5.0	<5,000	<500	<5.0	<0.5
	07/21/09	6.9	19	<2.5	<2.5	<2.5	<2,500	<250	<2.5	<2.5
	01/25/10	<5.0	<20	<5.0	<5.0	<5.0	<5,000	<500	<5.0	<0.5
	07/29/10	3.9	21	<2.0	<2.0	<2.0	<5,000	<5,000	<2.0	<4.0
	01/31/11	3.9	<30	<3.0	<3.0	<3.0	NS	NS	<3.0	<6.0
	07/12/11	3.1	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	01/17/12	3.1	16	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/16/12	2.8	<30	<3.0	<3.0	<3.0	NS	NS	<3.0	<6.0
MW-5	07/25/08	<5.0	<20	<5.0	<5.0	<5.0	<5,000	<500	<5.0	<0.5
(deep)	01/23/09	<1.0	16	<1.0	<1.0	<1.0	<1,000	<100	2.6	<1.0
	07/21/09	<2.5	<10	<2.5	<2.5	<2.5	<2500	<250	<2.5	<2.5
	01/25/10	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/29/10	<1.0	<20	<2.0	<2.0	<2.0	<5,000	<5,000	<2.0	<4.0
	01/31/11	<1.0	<20	<2.0	<2.0	<2.0	NS	NS	<2.0	<4.0
	07/12/11	<2.5	<50	<5.0	<5.0	<5.0	NS	NS	<5.0	<10
	01/17/12	<1.0	<20	<2.0	<2.0	<2.0	NS	NS	<2.0	<4.0
	07/16/12	<1.0	<20	<2.0	<2.0	<2.0	NS	NS	<2.0	<4.0

TABLE 3
ANALYTICAL RESULTS FOR FUEL OXYGENATES AND ADDITIVES
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	Methanol (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	1,2-EDB (µg/L)
MW-6	07/25/08	<0.5	9.1	<0.5	<0.5	<0.5	<500	<50	0.75	<0.5
(shallow)	01/23/09	<0.5	8.6	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/21/09	<0.5	8.2	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	01/25/10	<0.5	7.4	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/29/10	<0.50	<10	<1.0	<1.0	<1.0	<5,000	<5,000	<1.0	<2.0
	01/31/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/12/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	01/17/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/16/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
MW-7	07/25/08	<5.0	<20	<5.0	<5.0	<5.0	<5,000	<500	<5.0	<5.0
(deep)	01/23/09	<5.0	<20	<5.0	<5.0	<5.0	<5,000	<500	<5.0	<5.0
	07/21/09	<2.5	<10	<2.5	<2.5	<2.5	<2500	<250	<2.5	<2.5
	01/25/10	<5.0	<20	<5.0	<5.0	<5.0	<5,000	<500	<5.0	<0.5
	07/29/10	<5.0	<100	<10	<10	<10	<5,000	<5,000	<10	<20
	01/31/11	<1.5	<30	<3.0	<3.0	<3.0	NS	NS	<3.0	<6.0
	07/12/11	<2.0	<40	<4.0	<4.0	<4.0	NS	NS	<4.0	<8.0
	01/17/12	<1.0	<20	<2.0	<2.0	<2.0	NS	NS	<2.0	<4.0
	07/16/12	<1.0	22	<2.0	2.0	<2.0	NS	NS	<2.0	<4.0
MW-8	07/25/08	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
(shallow)	01/23/09	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/21/09	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	01/25/10	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/29/10	<0.50	<10	<1.0	<1.0	<1.0	<5,000	<5,000	<1.0	<2.0
	01/31/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/12/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	01/17/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/16/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
MW-9	07/25/08	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	0.75	<0.5
(shallow)	01/23/09	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/21/09	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	01/25/10	<0.5	<2.0	<0.5	<0.5	<0.5	<500	<50	<0.5	<0.5
	07/29/10	<0.50	<10	<1.0	<1.0	<1.0	<5,000	<5,000	<1.0	<2.0
	01/31/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/12/11	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	01/17/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0
	07/16/12	<0.50	<10	<1.0	<1.0	<1.0	NS	NS	<1.0	<2.0

Legend/Key:

MTBE = Methyl tertiary butyl ether

TBA = Tertiary butyl alcohol

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

1,2-DCA = 1,2-Dichloroethane

1,2-EDB = Ethylene Dibromide (1,2-Dibromoethane)

NA= Not Available

µg/L = micrograms per liter

TABLE 4
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	CA (µg/L)	1,2-DCB (µg/L)	1,2-DCA (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,2-DCP (µg/L)	PCE (µg/L)	TCE (µg/L)	VC (µg/L)
MW-1	7/22/2000[1]	<2.5	16.0	<2.5	15	<2.5	<2.5	<5.0	<2.5	8.2
(deep)	1/29/2001[1]	<10.0	23.0	<10	23	<10.0	<10.0	<10.0	<10.0	<10.0
	7/28/2001[1]	7.4	9.0	0.97	14	6.4	0.95	<0.5	<0.5	15
	2/3/2002[1]	5.5	10.0	1.4	23	5.5	0.59	<0.5	<0.5	7.4
	7/23/2002[1]	<10.0	2.5	<10.0	15	<10.0	<10.0	<10.0	<10.0	<10.0
	01/20/03	<10.0	11	<10.0	36	<10.0	<10.0	<10.0	<10.0	11
	07/30/03	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
	01/27/04	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
	07/22/04	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
	1/20/2005[1]	81	<5.0	<5.0	27	<5.0	<5.0	<5.0	<5.0	32
	7/20/2005[1]	<5.0	9.8	<5.0	14	<5.0	<5.0	<5.0	<5.0	15
	01/26/06	<25	<25	<25	<25	<25	<25	<25	<25	<25
	7/27/2006[1]	26	<10	<10	12	<10	<10	<10	<10	20
	01/25/07	<10	<10	<10	<10	<10	<10	<10	<10	<10
	07/19/07	<500	<500	<500	<500	<500	<500	<500	<500	<500
	02/15/08	<5	<5	<5	14	<5	<5	<5	<5	16
	7/25/2008[1]	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000
	01/23/09	<5	<5	<5	6.4	<5	<5	<5	<5	<5
	07/21/09	<10	<10	<10	<10	<10	<10	<10	<10	<10
	01/25/10	<5	<5	<5	11	<5	<5	<5	<5	<5
	07/29/10				Not Sampled - Free Product present					
	01/31/11				Not Sampled - Free Product present					
	07/12/11				Not Sampled - Free Product present					
	01/17/12				Not Sampled - Free Product present					
	07/16/12	<20	<20	<20	<20	<20	<20	<20	<20	<20
MW-2	07/22/00	<0.5	<0.5	17	10	<0.5	1.2	<0.5	12.0	<0.5
(deep)	01/29/01	<0.5	<0.5	12	9.1	<0.5	0.9	<0.5	12.0	<0.5
	07/28/01	<0.5	<0.5	9.7	7.8	<0.5	0.95	<0.5	12.0	<0.5
	02/03/02	<0.5	<0.5	7.1	6.7	<0.5	0.72	<0.5	9.0	<0.5
	07/23/02	<0.5	<0.5	1.7	2.1	<0.5	<0.5	<0.5	0.97	<0.5
	01/20/03	<0.5	<0.5	1.6	2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	07/30/03	<0.5	<0.5	1.7	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
	01/27/04	<0.5	<0.5	14	8.9	<0.5	<0.5	<0.5	9.4	<0.5
	07/22/04	<0.5	<0.5	6.6	6.5	<0.5	<0.5	<0.5	8.0	<0.5
	01/20/05	<0.5	<0.5	8.7	7.8	<0.5	0.69	<0.5	12.0	<0.5
	07/20/05	<0.5	<0.5	2.0	2.1	<0.5	<0.5	<0.5	1.2	<0.5
	01/26/06	<0.5	<0.5	10	7.7	<0.5	0.69	<0.5	13.0	<0.5
	07/27/06	<0.5	<0.5	13	10	<0.5	0.88	<0.5	13.0	<0.5
	01/25/07	<0.5	<0.5	5.5	9.1	<0.5	0.64	<0.5	16.0	<0.5
	07/19/07	<0.5	<0.5	5.3	4.6	<0.5	<0.5	<0.5	7.5	<0.5
	02/15/08	<0.5	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	2.1	<0.5
	07/25/08	<0.5	<0.5	1.3	1.5	<0.5	<0.5	<0.5	4.8	<0.5
	01/23/09	<0.5	<0.5	7.8	9.4	<0.5	0.88	<0.5	16	<0.5
	07/21/09	<0.5	<0.5	9.7	8.3	<0.5	0.89	<0.5	15	<0.5
	01/25/10	<0.5	<0.5	3.8	4.8	<0.5	<0.5	<0.5	9.0	<0.5
	07/29/10	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/31/11	<1.0	<1.0	9.5	6.5	<1.0	<1.0	<1.0	12	<1.0
	07/12/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/17/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

TABLE 4
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	CA (µg/L)	1,2-DCB (µg/L)	1,2-DCA (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,2-DCP (µg/L)	PCE (µg/L)	TCE (µg/L)	VC (µg/L)
MW-3	07/22/00	<0.5	<0.5	0.52	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
(shallow)	01/29/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/28/01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/03/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/23/02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/20/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/30/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/27/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/20/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/20/05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/26/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	7/27/2006[1]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/25/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/19/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/15/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/25/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/23/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/21/09	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	1/25/2010[1]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/29/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/31/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/12/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/17/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-4	07/22/00	<10	38	<10	620	<10	<10	<10	19	97
(deep)	01/29/01	<5.0	35	<5.0	380	15	<5.0	<5.0	19	97
	07/28/01	<7.5	29	<5.0	310	18	<5.0	<5.0	8.4	150
	2/3/2002[1]	<7.0	22	<7.0	310	16	<7.0	<7.0	20	120
	07/23/02	<0.5	30	<0.5	240	17	<0.5	<0.5	<0.5	230
	01/20/03	<10.0	28	<10.0	200	16	<10.0	<10.0	69	84
	07/30/03	<10.0	32	<10.0	230	13	<10.0	<10.0	13	290
	1/27/2004[1]	<5.0	41	<5.0	370	25	<5.0	<5.0	32	310
	7/22/2004[1]	<5.0	23	<5.0	120	13	<5.0	<5.0	9.6	280
	1/20/2005[1]	<5.0	28	<5.0	320	23	<5.0	<5.0	81	130
	7/20/2005[1]	<5.0	32	<5.0	230	18	<5.0	<5.0	<5.0	170
	1/26/2006[1]	<5.0	31	<5.0	320	22	<5.0	<5.0	39	330
	7/27/2006[1]	<5.0	24	<5.0	180	24	<5.0	<5.0	19	390
	01/25/07	<5.0	25	<5.0	170	15	<5.0	<5.0	<10	380
	7/19/2007[1]	<5.0	28	<5.0	180	27	<5.0	<5.0	21	460
	2/15/2008[1]	<5.0	31	<5.0	200	25	<5.0	<5.0	22	130
	7/25/2008[1]	5.5	18	<2.5	110	17	<2.5	<2.5	21	87
	1/23/2009[1]	<5.0	27	<5.0	150	23	<5.0	<5.0	<5.0	190
	7/21/2009[1]	<2.5	22	<2.5	84	14	<2.5	<2.5	15	150
	1/25/2010[1]	<5.0	25	<5.0	210	28	<5.0	<5.0	<5.0	240
	07/29/10	<2.0	23	<2.0	51	17	<2.0	<2.0	<2.0	190
	01/31/11	<3.0	22	<3.0	93	18	<3.0	<3.0	<3.0	160
	07/12/11	<1.0	18	<1.0	52	17	<1.0	<1.0	<1.0	100
	01/17/12	<1.0	20	<1.0	54	16	<1.0	<1.0	2.5	130
	07/16/12	<3.0	17	<3.0	30	17	<3.0	<3.0	<3.0	250

TABLE 4
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	CA (µg/L)	1,2-DCB (µg/L)	1,2-DCA (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,2-DCP (µg/L)	PCE (µg/L)	TCE (µg/L)	VC (µg/L)
MW-5	07/22/00	1.8	2.4	1.4	2.6	<1.0	<1.0	<1.0	<1.0	5.0
(deep)	01/29/01	<1.0	2.2	2.6	2.2	<1.0	<1.0	<1.0	<1.0	2.2
	07/28/01	1.4	1.3	1.7	1.4	<1.0	<1.0	<1.0	<1.0	2.6
	2/3/2002[1]	1.8	2.0	2.1	3.9	0.95	<0.5	<0.5	<0.5	4.6
	07/23/02	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	01/20/03	<1.0	1.4	1.4	1.6	<1.0	<1.0	<1.0	<1.0	1.3
	07/30/03	<1.0	1.2	1.1	1.0	<1.0	<1.0	<1.0	<1.0	2.0
	1/27/2004[1]	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	07/22/04	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	01/20/05	1.1	0.84	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	07/20/05	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/26/06	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	07/27/06	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	01/25/07	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/19/07	<0.5	0.51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/15/08	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	07/25/08	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	01/23/09	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/21/09	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	01/25/10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	07/29/10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	01/31/11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	07/12/11	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	01/17/12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	07/16/12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-6	07/22/00	<0.5	<0.5	1.2	9.3	<0.5	<0.5	<0.5	<0.5	0.97
(shallow)	01/29/01	<0.5	<0.5	1.1	11	<0.5	<0.5	<0.5	<0.5	0.77
	07/28/01	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/03/02	<0.5	<0.5	1.5	13	<0.5	<0.5	<0.5	<0.5	<0.5
	07/23/02	<1.0	<1.0	<1.0	9.3	<1.0	<1.0	<1.0	<1.0	<1.0
	01/20/03	<1.0	<1.0	1.8	14	<1.0	<1.0	<1.0	<1.0	<1.0
	07/30/03	<1.0	<0.5	1.3	7.6	<0.5	<0.5	<0.5	<0.5	2.7
	1/27/2004[1]	<2.5	<2.5	<2.5	8.4	<2.5	<2.5	<2.5	<2.5	3.2
	07/22/04	<0.5	<0.5	1.3	3.3	<0.5	<0.5	<0.5	<0.5	<0.5
	01/20/05	<0.5	<0.5	0.99	8.7	<0.5	<0.5	<0.5	<0.5	<0.5
	07/20/05	<0.5	<0.5	0.79	4.5	<0.5	<0.5	<0.5	<0.5	0.65
	01/26/06	<0.5	<0.5	0.81	6.2	<0.5	<0.5	<0.5	<0.5	1.90
	07/27/06	<0.5	<0.5	0.82	4.4	<0.5	<0.5	<0.5	<0.5	1.10
	01/25/07	<0.5	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	<0.5	1.30
	07/19/07	<0.5	<0.5	0.73	2.2	<0.5	<0.5	<0.5	<0.5	1.30
	02/15/08	<0.5	<0.5	<0.5	4.9	<0.5	<0.5	<0.5	<0.5	0.79
	07/25/08	<0.5	<0.5	0.75	0.81	<0.5	<0.5	<0.5	<0.5	<0.5
	01/23/09	<0.5	<0.5	<0.5	0.53	<0.5	<0.5	<0.5	<0.5	<0.5
	07/21/09	<0.5	<0.5	<0.5	0.66	<0.5	<0.5	<0.5	<0.5	<0.5
	01/25/10	<0.5	<0.5	<0.5	0.94	<0.5	<0.5	<0.5	<0.5	<0.5
	08/02/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/31/11	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
	07/12/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/17/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

TABLE 4
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	CA (µg/L)	1,2-DCB (µg/L)	1,2-DCA (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,2-DCP (µg/L)	PCE (µg/L)	TCE (µg/L)	VC (µg/L)
MW-7	7/22/2000[1]	<5	18	<5	170	<5	<5	<5	8	<5
(deep)	1/29/2001[1]	<5	18	<5	170	<5	<5	<5	8	<5
	7/28/2001[1]	<5	11	<5	170	<5	<5	<5	6.9	6.1
	02/03/02	<5.0	<5.0	<5.0	94	<5.0	<5.0	<5.0	30	<5.0
	07/23/02	<10.0	12.0	<10.0	180	<10.0	<10.0	<10.0	<10.0	<10.0
	01/20/03	<2.5	<2.5	<2.5	50	<2.5	<2.5	11	<2.5	<2.5
	07/30/03	<2.5	<2.5	<2.5	130	<2.5	<2.5	<2.5	<2.5	9.5
	01/27/04	<5.0	<5.0	<5.0	130	<5.0	<5.0	<5.0	20	24
	07/22/04	<5.0	<5.0	<5.0	120	<5.0	<5.0	<5.0	<5.0	<5.0
	01/20/05	<2.5	2.7	<2.5	110	<2.5	<2.5	<2.5	20	28
	07/20/05	<5.0	<5.0	<5.0	250	<5.0	<5.0	<5.0	<5.0	29
	01/26/06	<5.0	<5.0	<5.0	110	<5.0	<5.0	<5.0	19	37
	07/27/06	<5.0	<5.0	<5.0	350	<5.0	<5.0	<5.0	<5.0	55
	01/25/07	<0.5	<0.5	<0.5	29	<0.5	<0.5	<0.5	<0.5	5.9
	7/19/2007[1]	<0.5	<0.5	<0.5	210	<0.5	<0.5	<0.5	<0.5	31
	2/15/2008[1]	<0.5	5.5	<0.5	220	<0.5	<0.5	<0.5	28	20
	07/25/08	<5.0	<5.0	<5.0	99	<5.0	<5.0	<5.0	<5.0	<5.0
	01/23/09	<5.0	<5.0	<5.0	190	<5.0	<5.0	<5.0	<5.0	26
	07/21/09	<2.5	<2.5	<2.5	82	<2.5	<2.5	<2.5	<2.5	<2.5
	01/25/10	<5.0	<5.0	<5.0	98	<5.0	<5.0	<5.0	<5.0	19
	07/29/10	<10	<10	<10	810	<10	<10	<10	<10	70
	01/31/11	<3.0	<3.0	<3.0	100	<3.0	<3.0	<3.0	5.1	24
	07/12/11	<4.0	<4.0	<4.0	190	<4.0	<4.0	<4.0	<4.0	43
	01/17/12	<2.0	<2.0	<2.0	65	<2.0	<2.0	<2.0	<2.0	30
	07/16/12	<2.0	<2.0	<2.0	180	<2.0	<2.0	<2.0	<2.0	52
MW-8	07/22/00	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	2.4	1.6	<0.5
(shallow)	01/29/01	<0.5	<0.5	<0.5	10	<0.5	<0.5	<5.0	8.8	<0.5
	07/28/01	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<1.5	2.1	<0.5
	02/03/02	<0.5	<0.5	<0.5	6.6	<0.5	<0.5	3.3	4.6	<0.5
	07/23/02	<0.5	<0.5	<0.5	8.4	<0.5	<0.5	3.5	5.2	<0.5
	01/20/03	<0.5	<0.5	<0.5	7.3	<0.5	<0.5	6	6.7	<0.5
	07/30/03	<0.5	<0.5	<0.5	25	<0.5	<0.5	15	20	<0.5
	01/27/04	<0.5	<0.5	<0.5	4	<0.5	<0.5	3.1	3.1	<0.5
	07/22/04	<0.5	<0.5	<0.5	20	<0.5	<0.5	8.3	13	<0.5
	01/20/05	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	5.2	5.1	<0.5
	07/20/05	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	1.4	1.2	<0.5
	01/26/06	<0.5	<0.5	<0.5	7.3	<0.5	<0.5	6.6	6.2	<0.5
	07/27/06	<0.5	<0.5	<0.5	10	<0.5	<0.5	6.8	7.3	<0.5
	01/25/07	<0.5	<0.5	<0.5	11	<0.5	<0.5	6.3	6.9	<0.5
	07/19/07	<0.5	<0.5	<0.5	0.52	<0.5	<0.5	0.94	0.73	<0.5
	02/15/08	<0.5	<0.5	<0.5	7.5	<0.5	<0.5	5.6	5.4	<0.5
	07/25/08	<0.5	<0.5	<0.5	0.58	<0.5	<0.5	<0.5	0.50	<0.5
	01/23/09	<0.5	<0.5	<0.5	4.9	<0.5	<0.5	2.7	3.3	<0.5
	07/21/09	<0.5	<0.5	<0.5	2.3	<0.5	<0.5	1.8	2.3	<0.5
	01/25/10	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	1.2	1.2	<0.5
	07/29/10	<1.0	<1.0	<1.0	7.3	<1.0	<1.0	5.1	5.3	1.1
	01/31/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/12/11	<1.0	<1.0	<1.0	31	<1.0	<1.0	12	15	2.4
	01/17/12	<1.0	<1.0	<1.0	21	<1.0	<1.0	12	13	<1.0
	07/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

TABLE 4
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS
Grimit Auto Repair & Automotive Service, 1970 Seminary Avenue, Oakland, California

Well Number	Date Collected	CA (µg/L)	1,2-DCB (µg/L)	1,2-DCA (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,2-DCP (µg/L)	PCE (µg/L)	TCE (µg/L)	VC (µg/L)
MW-9	07/22/00	<1	1.4	<1	1.6	<1	<1	<1	<1	<1
(shallow)	01/29/01	<0.5	1.2	0.71	<0.5	8.2	<0.5	<5.0	<0.5	0.53
	07/28/01	<0.5	0.87	<0.5	0.92	<0.5	<0.5	<5.0	2.5	<0.5
	02/03/02	<0.5	1.2	<0.5	2.4	<0.5	<0.5	<0.5	<0.5	<0.5
	07/23/02	<2.5	3.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
	01/20/03	<1	<1	<1	<1	<1	<1	<1	<1	<1
	07/30/03	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/27/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/22/04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	1/20/2005[1]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/20/05	<0.5	0.59	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/26/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/27/06	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/25/07	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	7/19/2007[1]	<0.5	0.68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	02/15/08	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/25/08	<0.5	0.52	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/23/09	<0.5	0.69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/20/09	<0.5	0.68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	01/25/10	<0.5	0.68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	07/29/10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/31/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/12/11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	01/17/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	07/16/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Legend/Key:

CA= Chlorethane
1,2-DCB= 1,2-Dichlorobenzene
1,2-DCA= 1,2-dichloroethane
cis-1,2-DCE= cis-1,2-dichloroethene
trans-1,2-DCE= -1,2-dichloroethene
1,2-DCP =1,2-dichloropropane
PCE= Tetrachloroethylene (perchloroethene)
TCE= trichloroethene
VC= vinyl chloride
ND= "not-detected" or below the Method Detection Limits
NA= Not Available
ft msl = feet above mean sea level
µg/L = micrograms per liter
[1] = Aadditional detections of VOCs noted, refer to GRIMIT/SEMINARY1-10GWSMPLREPORT, dated February 3, 2010.
Note: The table presents the analytical results of select chemical parameters based on historical presence at the site.

TABLE 5

FREE PRODUCT MEASUREMENT AND REMOVAL SUMMARY

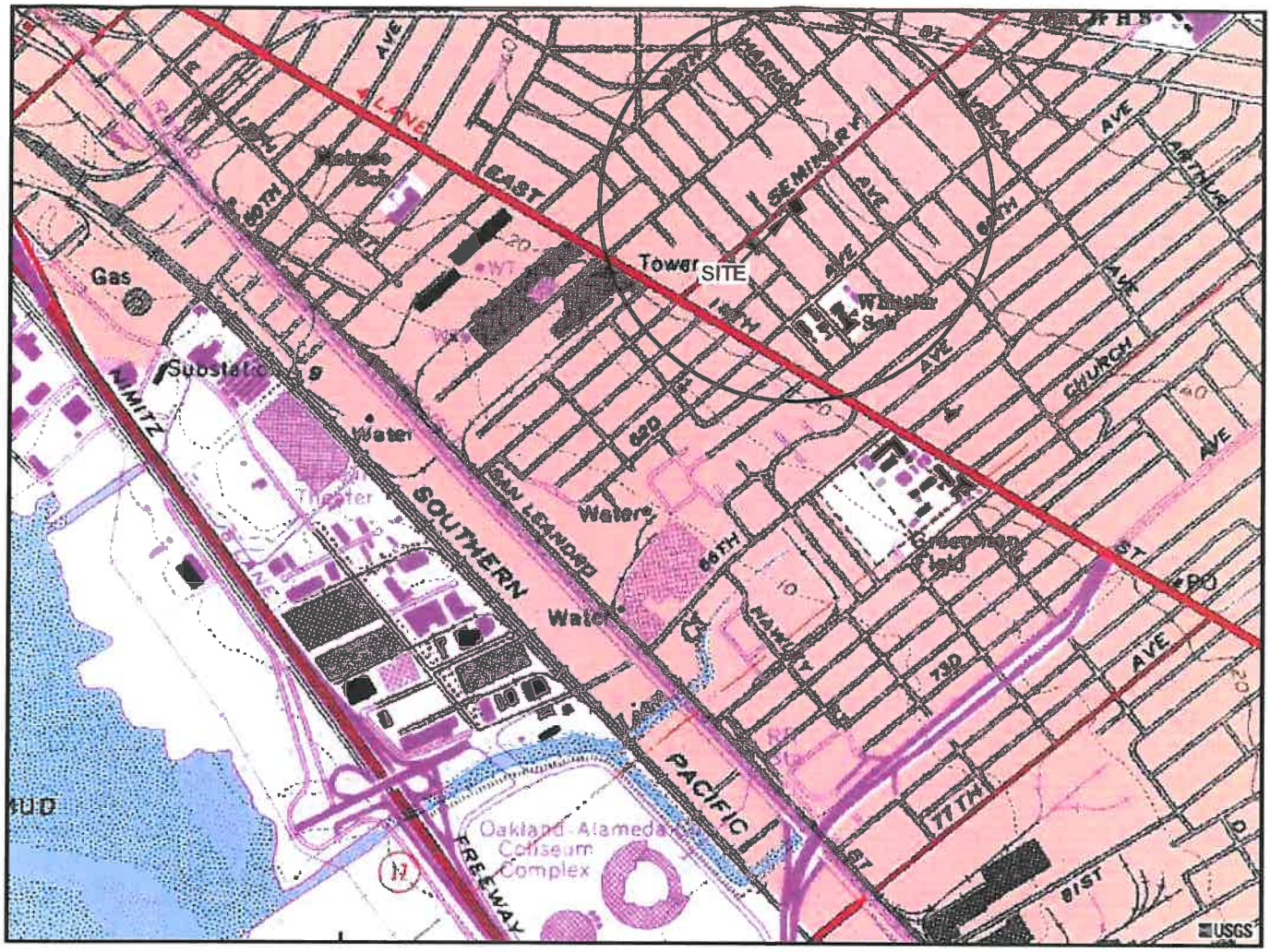
Grimit Auto Repair & Service

1970 Seminary Avenue, Oakland, California

Well Number	Date	Product Thickness (feet)	Amount Recovered* (gallons)
MW-1	07/12/11	0.30	0.0
	08/02/11	0.25	3.0
	08/18/11	0.09	1.0
	08/23/11	0.10	1.0
	09/06/11	0.13	1.0
			6.0
	09/29/11	0.13	0.0
	Installed product absorbent sock in well on 9/29/11		

Note:

* = Free product / water mixture through 9/6/11



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1996

N

QUADRANGLE LOCATION

0 1800 FT

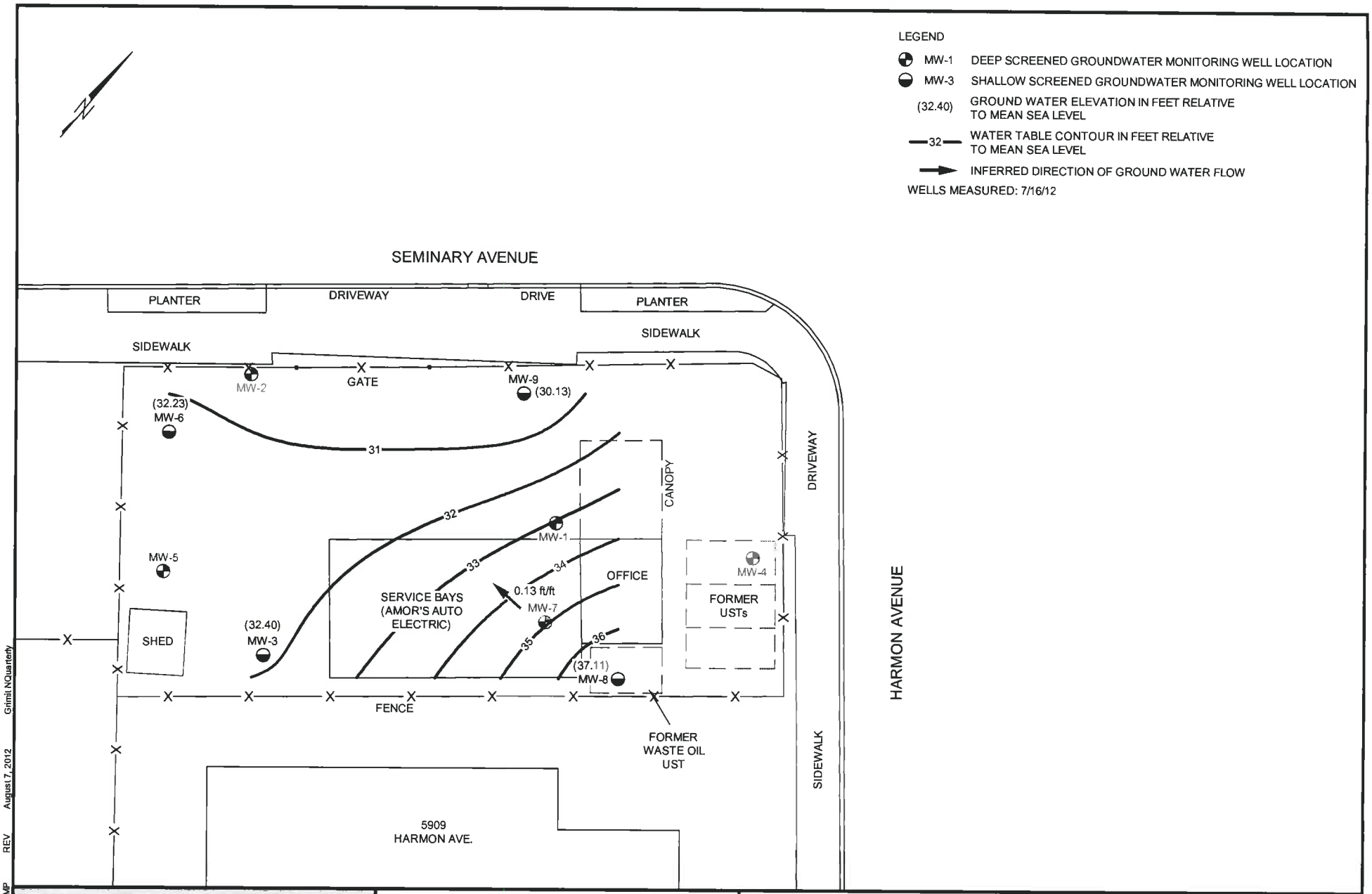
APPROXIMATE SCALE

STRATUS
ENVIRONMENTAL, INC.

FORMER GRIMIT AUTO
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE
1
PROJECT NO.
2090-1970-01



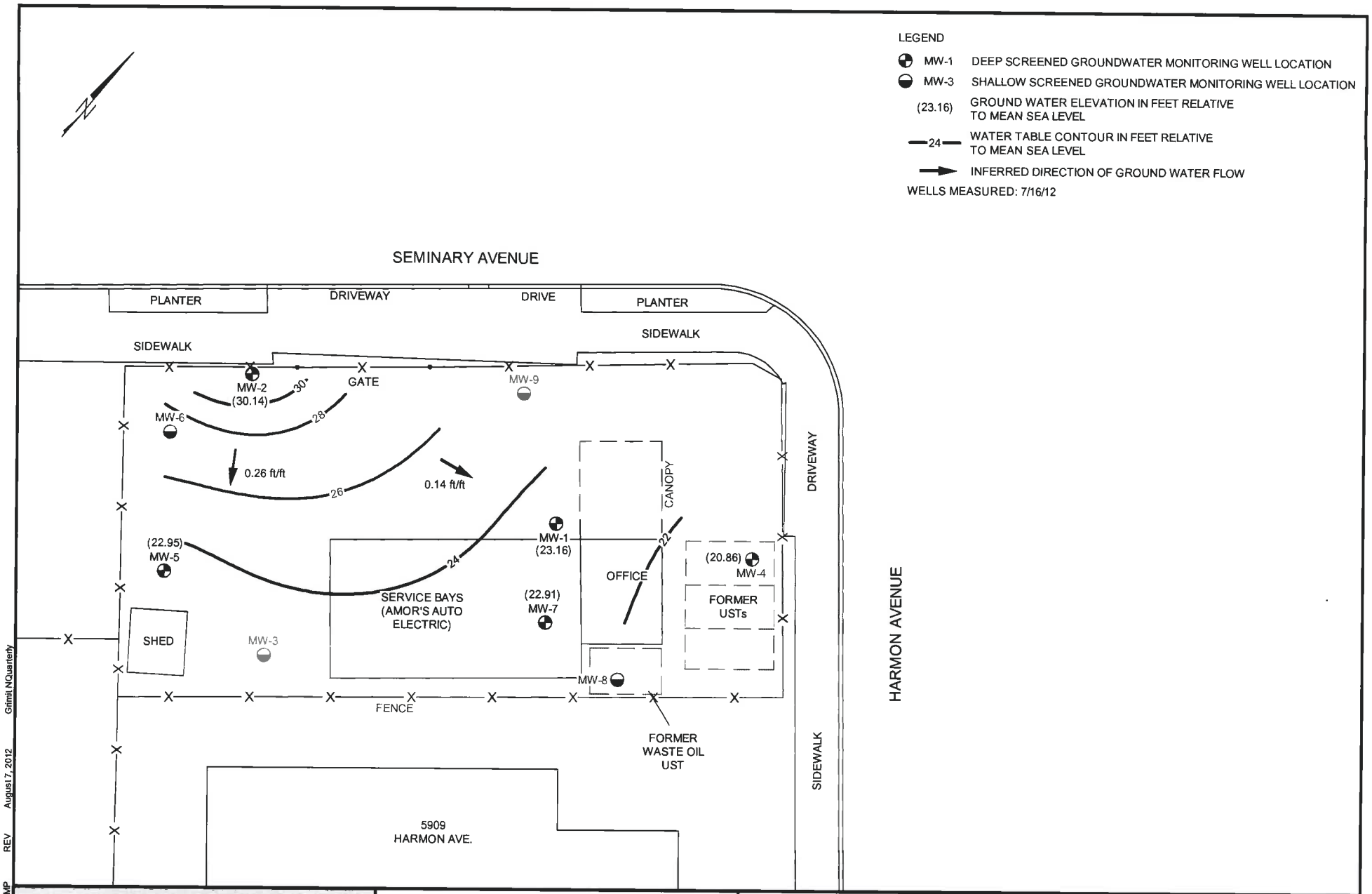
STRATUS ENVIRONMENTAL, INC.

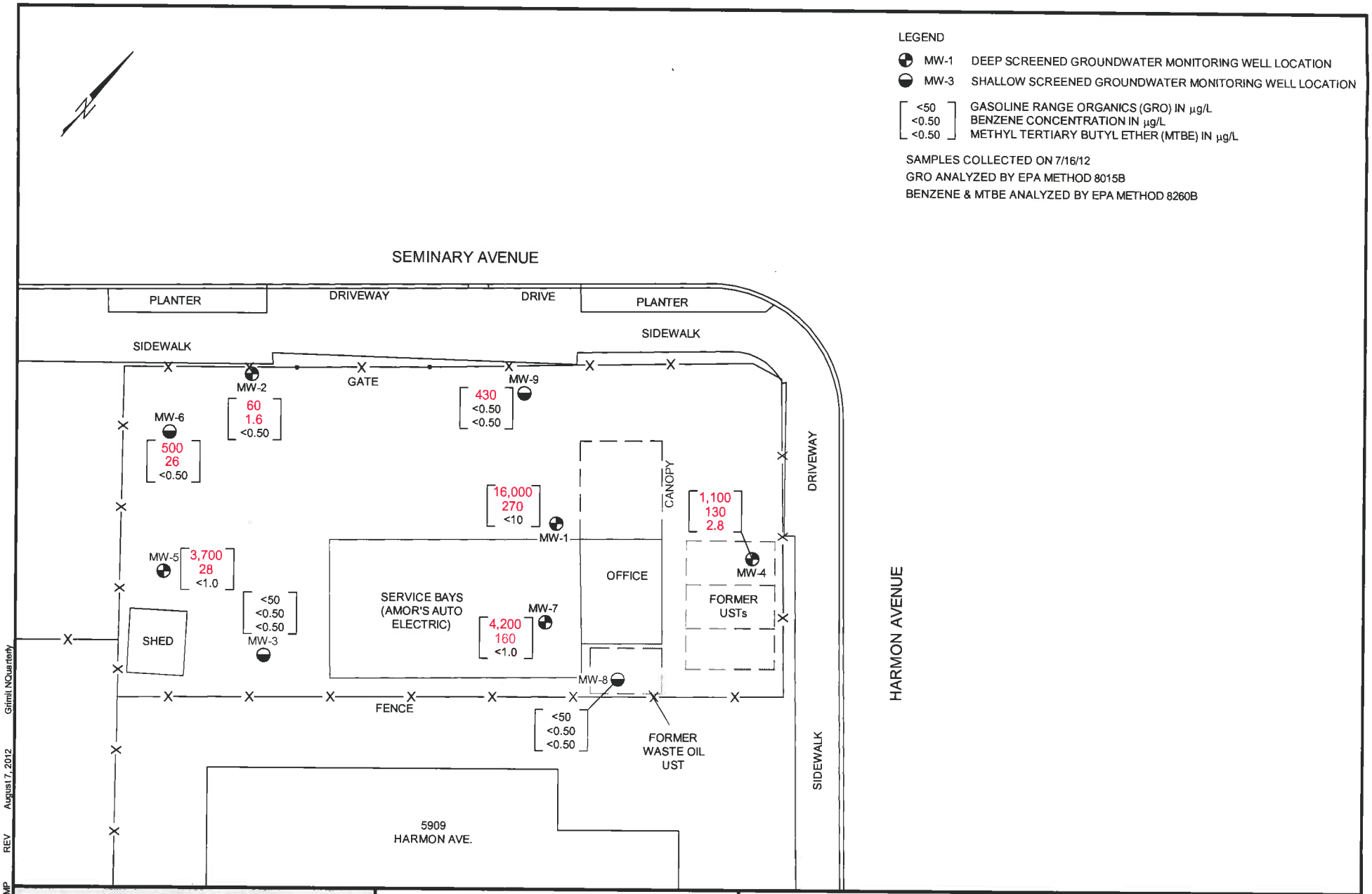
0 20 FT
SCALE

FORMER GRIMIT AUTO
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION CONTOUR MAP
SHALLOW SCREENED WELLS
3rd QUARTER 2012

FIGURE
2
PROJECT NO.
2090-1970-1

GrimitQuarterly JMP REV August 7, 2012 Grimit NQuarterly


LEGEND
MW-1 DEEP SCREENED GROUNDWATER MONITORING WELL LOCATION
MW-3 SHALLOW SCREENED GROUNDWATER MONITORING WELL LOCATION
(23.16) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
24 WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
INFERRED DIRECTION OF GROUND WATER FLOW
WELLS MEASURED: 7/16/12
SEMINARY AVENUE
PLANTER
DRIVEWAY
DRIVE
PLANTER
SIDEWALK
SIDEWALK
MW-2
(30.14)
GATE
MW-9
MW-6
30
28
26
0.26 ft/ft
0.14 ft/ft
CANOPY
DRIVEWAY
(22.95)
MW-5
MW-1
(23.16)
24
22
(20.86)
MW-4
OFFICE
SERVICE BAYS
(AMOR'S AUTO
ELECTRIC)
(22.91)
MW-7
FORMER
USTs
SHED
MW-3
MW-8
FENCE
FORMER
WASTE OIL
UST
HARMON AVENUE
SIDEWALK
5909
HARMON AVE.
JMP
REV
August 7, 2012
Grimit NQuarterly
GrimitQuarterly
STRATUS
ENVIRONMENTAL, INC.
0
20 FT
SCALE
FORMER GRIMIT AUTO
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION CONTOUR MAP
DEEP SCREENED WELLS
3rd QUARTER 2012
FIGURE
3
PROJECT NO.
2090-1970-1



STRATUS ENVIRONMENTAL, INC.

0 20 FT

SCALE

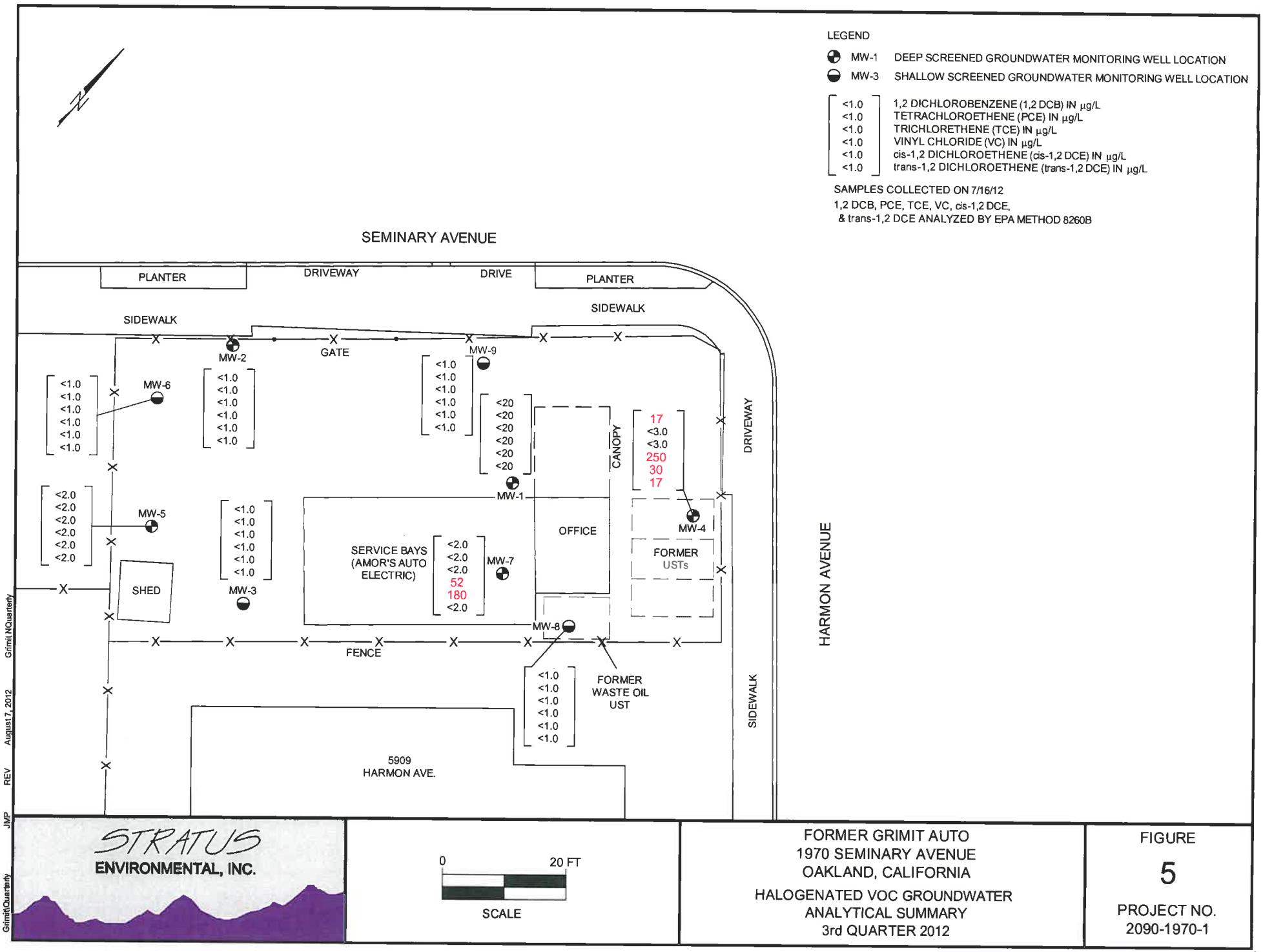
FORMER GRIMIT AUTO
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA

PETROLEUM HYDROCARBON
GROUNDWATER ANALYTICAL SUMMARY
3rd QUARTER 2012

FIGURE

4

PROJECT NO.
2090-1970-1



STRATUS ENVIRONMENTAL, INC.

FORMER GRIMIT AUTO
1970 SEMINARY AVENUE
OAKLAND, CALIFORNIA
HALOGENATED VOC GROUNDWATER
ANALYTICAL SUMMARY
3rd QUARTER 2012

FIGURE
5
PROJECT NO.
2090-1970-1

JMP REV August 7, 2012 Grimit NQuarterly

GrimitNQuarterly

APPENDIX A

FIELD DATA SHEETS

STRATUS ENVIRONMENTAL, INC.

Site Address: 1970 Seminary Avenue
City: Oakland
Sampled by: Shane Edmunds
Signature: Shane Edmunds

Site Number: Grimit Auto
Project Number: 2090-1970-01
Project PM: Scott Bittinger
DATE: 7-16-12

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data	
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)	
MW-1	0912	Sheen	19.75	34.34	14.59	2	0.5	7.30	5.5		X		DRY	21.79	MW-1	1521	0.88	✓
2	0826		12.18	34.87	22.69			11.35	11.5				Low	21.24	2	1321	1.65	✓
3	0841		10.45	20.16	9.71			4.86	5				Low	14.94	3	1407	1.55	✓
4	0900		21.53	24.62	3.09			1.55	2				Low	22.16	4	1443	1.05	✓
5	0835	Sheen	19.74	34.67	14.93			7.47	7.5				Low	25.12	5	1354	1.17	✓
6	0830		10.11	18.35	8.24			4.12	4.5				Low	10.83	6	1338	1.81	✓
7	0854	Sheen	19.81	31.64	11.83			5.92	6				Low	22.16	7	1426	0.77	✓
8	0905		5.31	18.95	13.64			6.82	7					5.36	8	1305	2.07	✓
9	0847		12.48	19.78	7.30			3.65	2.5				DRY	18.44	9	1502	1.31	✓

Multiplier
2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures
pH/Conductivity/temperature Meter - Oakton Model PC-10
DO Meter - Oakton 300 Series (DO is always measured before purge)

SC

CALIBRATION DATE

pH	7/16 SE
Conductivity	↓ ↓
DO	

T:\Forms

STRATUS ENVIRONMENTAL, INC.

Site Address 1970 Seminary Ave
City Oakland
Sampled By: Shane Edmunds
Signature

Site Number Grimit Auto
Project Number 2090-1970-01
Project PM Scott Bittinger
DATE 7-16-12

Well ID MW-2

Purge start time | Odor Y (N)

	Temp C	pH	cond	gallons
time 0942	17.7	7.12	747	0
time 0948	16.8	6.77	867	5.5
time 0955	16.8	6.75	868	11.5
time				

purge stop time DO = 1.65 | ORP 60

Well ID MW-6

Purge start time | Odor Y (N)

	Temp C	pH	cond	gallons
time 1009	16.6	7.02	615	0
time 1013	16.6	6.80	630	2
time 1017	16.2	6.76	636	4.5
time				

purge stop time DO = 1.81 | ORP 39

Well ID MW-5

Purge start time | Odor (Y) N

	Temp C	pH	cond	gallons
time 1031	16.1	6.82	741	0
time 1036	16.3	6.59	835	3.5
time 1043	16.3	6.87	861	7.5
time				

purge stop time DO = 1.17 | ORP 31

Well ID MW-3

Purge start time | Odor (Y) N

	Temp C	pH	cond	gallons
time 1058	16.4	6.91	681	0
time 1103	16.1	6.77	684	2.5
time 1108	15.9	6.87	695	5
time				

purge stop time DO = 1.55 | ORP 24

Well ID MW-9

Purge start time | Odor (Y) N

	Temp C	pH	cond	gallons
time 1120	17.4	7.21	692	0
time 1124	17.0	7.00	713	2
time Dry @ 2.5 gallons				
time				

purge stop time DO = 1.31 | ORP -3

Well ID MW-7

Purge start time | Odor (Y) N

	Temp C	pH	cond	gallons
time 1135	16.3	7.01	831	0
time 1140	16.3	6.76	796	3
time 1141	16.1	7.02	800	6
time				

purge stop time DO = 0.77 | ORP -14

Well ID MW-1

Purge start time | Odor (Y) N

	Temp C	pH	cond	gallons
time 1158	16.7	6.94	793	0
time 1205	16.8	6.75	749	4
time 1211	17.4	6.88	584	5.5
time Dry @ 5.5 gallons purged				

purge stop time DO = 0.88 | ORP -46

Well ID MW-4

Purge start time | Odor (Y) N

	Temp C	pH	cond	gallons
time 1225	17.8	7.06	403	0
time 1228	18.0	6.81	385	1
time 1231	17.9	6.89	181	2
time				

purge stop time DO = 1.05 | ORP -30

215

SC

STRATUS ENVIRONMENTAL, INC.

Site Address 1970 Seminary Ave
City Oakland
Sampled By: Shane Edmunds
Signature [signature]

Site Number Grimit Auto
Project Number 2090-1970-01
Project PM Scott Bittinger
DATE 7-16-12

Well ID	MW-8			
Purge start time			Odor	(Y) N
	Temp C	pH	cond	gallons
time 1243	18.7	7.16	81	0
time 1248	18.6	7.09	76	3.5
time 1252	18.4	7.21	66	7
time				
purge stop time	DO = 2.07		ORP	-14

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

Well ID				
Purge start time			Odor	Y N
	Temp C	pH	cond	gallons
time				
time				
time				
time				
purge stop time			ORP	

SW

APPENDIX B

SAMPLING AND ANALYSES PROCEDURES

SAMPLING AND ANALYSIS PROCEDURES

The sampling and analysis procedures as well as the quality assurance plan are contained in this appendix. The procedures and adherence to the quality assurance plan will provide for consistent and reproducible sampling methods; proper application of analytical methods; accurate and precise analytical results; and finally, these procedures will provide guidelines so that the overall objectives of the monitoring program are achieved.

Ground Water and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typical a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Ground Water

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Purging and Sampling

Monitoring wells are purged using a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water have been removed. If three well volumes can not be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a ground water sample is then removed from each of the wells using a disposable bailer.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped.

The water sample is collected, labeled, and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of accruing to regulatory accepted method pertaining to the site.

QUALITY ASSURANCE PLAN

Procedures to provide data quality should be established and documented so that conditions adverse to quality, such as deficiencies, deviations, nonconforments, defective material, services, and/or equipment, can be promptly identified and corrected.

General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

Soil and Water Sample Labeling and Preservation

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc® type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon® sheeting and plastic caps. The sample is then placed in a Ziploc® type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and

noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

Equipment Cleaning

Sample bottles, caps, and septa used in sampling for volatile and semivolatile organics will be triple rinsed with high-purity deionized water. After being rinsed, sample bottles will be dried overnight at a temperature of 200°C. Sample caps and septa will be dried overnight at a temperature of 60°C. Sample bottles, caps, and septa will be protected from solvent contact between drying and actual use at the sampling site. Sampling containers will be used only once and discarded after analysis is complete.

Plastic bottles and caps used in sampling for metals will be soaked overnight in a 1-percent nitric acid solution. Next, the bottles and caps will be triple rinsed with deionized water. Finally, the bottles and caps will be air dried before being used at the site. Plastic bottles and caps will be constructed of linear polyethylene or polypropylene. Sampling containers will be used only once and discarded after analysis is complete. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Before the sampling event is started, equipment that will be placed in the well or will come in contact with groundwater will be disassembled and cleaned thoroughly with detergent water, and then steam cleaned with deionized water. Any parts that may absorb contaminants, such as plastic pump valves, etc. will be cleaned as described above or replaced.

During field sampling, equipment surfaces that are placed in the well or contact groundwater will be steam cleaned with deionized water before the next well is purged or sampled. Equipment blanks will be collected and analyzed from non-disposable sampling equipment that is used for collecting groundwater samples at the rate of one blank per twenty samples collected.

Internal Quality Assurance Checks

Internal quality assurance procedures are designed to provide reliability of monitoring and measurement of data. Both field and laboratory quality assurance checks are necessary to evaluate the reliability of sampling and analysis results. Internal quality assurance procedures generally include:

- Laboratory Quality Assurance

  - Documentation of instrument performance checks
  - Documentation of instrument calibration
  - Documentation of the traceability of instrument standards, samples, and data
  - Documentation of analytical and QC methodology (QC methodology includes use of spiked samples, duplicate samples, split samples, use of reference blanks, and check standards to check method accuracy and precision)

- Field Quality Assurance

  - Documentation of sample preservation and transportation
  - Documentation of field instrument calibration and irregularities in performance

Internal laboratory quality assurance checks will be the responsibility of the contract laboratories. Data and reports submitted by field personnel and the contract laboratory will be reviewed and maintained in the project files.

Types of Quality Control Checks

Samples are analyzed using analytical methods outlined in EPA Manual SW 846 and approved by the California Regional Water Quality Control Board-Central Valley Region in the Leaking Underground Fuel Tanks (LUFT) manual and appendices. Standard contract laboratory quality control may include analysis or use of the following:

- Method blanks – reagent water used to prepare calibration standards, spike solutions, etc. is analyzed in the same manner as the sample to demonstrate that analytical interferences are under control.
- Matrix spiked samples – a known amount of spike solution containing selected constituents is added to the sample at concentrations at which the accuracy of the analytical method is to satisfactorily monitor and evaluate laboratory data quality.
- Split samples – a sample is split into two separate aliquots before analysis to assess the reproducibility of the analysis.
- Surrogate samples – samples are spiked with surrogate constituents at known concentrations to monitor both the performance of the analytical system and the effectiveness of the method in dealing with the sample matrix.
- Control charts – graphical presentation of spike or split sample results used to track the accuracy or precision of the analysis.
- Quality control check samples – when spiked sample analysis indicates atypical instrument performance, a quality check sample, which is prepared independently of the calibration standards and contains the constituents of interest, is analyzed to confirm that measurements were performed accurately.

- Calibration standards and devices – traceable standards or devices to set instrument response so that sample analysis results represent the absolute concentration of the constituent.

Field QA samples will be collected to assess sample handling procedures and conditions. Standard field quality control may include the use of the following, and will be collected and analyzed as outlined in EPA Manual SW 846.

- Field blanks – reagent water samples are prepared at the sampling location by the same procedure used to collect field groundwater samples and analyzed with the groundwater samples to assess the impact of sampling techniques on data quality. Typically, one field blank per twenty groundwater samples collected will be analyzed per sampling event.
- Field replicates – duplicate or triplicate samples are collected and analyzed to assess the reproducibility of the analytical data. One replicate groundwater sample per twenty samples collected will be analyzed per sampling event, unless otherwise specified. Triplicate samples will be collected only when specific conditions warrant and generally are sent to an alternate laboratory to confirm the accuracy of the routinely used laboratory.
- Trip blanks – reagent water samples are prepared before field work, transported and stored with the samples and analyzed to assess the impact of sample transport and storage for data quality. In the event that any analyte is detected in the field blank, a trip blank will be included in the subsequent groundwater sampling event.

Data reliability will be evaluated by the certified laboratory and reported on a cover sheet attached to the laboratory data report. Analytical data resulting from the testing of field or trip blanks will be included in the laboratory's report. Results from matrix spike, surrogate, and method blank testing will be reported, along with a statement of whether the samples were analyzed within the appropriate holding time.

Stratus will evaluate the laboratory's report on data reliability and note significant QC results that may make the data biased or unacceptable. Data viability will be performed as outlined in EPA Manual SW 846. If biased or unacceptable data is noted, corrective actions (including re-sample/re-analyze, etc.) will be evaluated on a site-specific basis.

APPENDIX C

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 07/19/12

Job: 2090-1970-01/Grimit Auto

Oil and Grease, HEM
EPA Method 1664A

Parameter		Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-1**					
Lab ID : STR12071941-01A Date Sampled 07/16/12 15:21	Oil & Grease, HEM	73,000	5,000 µg/L	07/25/12	07/25/12
Client ID: **MW-2**					
Lab ID : STR12071941-02A Date Sampled 07/16/12 13:21	Oil & Grease, HEM	ND	5,000 µg/L	07/25/12	07/25/12
Client ID: **MW-3**					
Lab ID : STR12071941-03A Date Sampled 07/16/12 14:07	Oil & Grease, HEM	ND	5,000 µg/L	07/25/12	07/25/12
Client ID: **MW-4**					
Lab ID : STR12071941-04A Date Sampled 07/16/12 14:43	Oil & Grease, HEM	42,000	5,000 µg/L	07/25/12	07/25/12
Client ID: **MW-5**					
Lab ID : STR12071941-05A Date Sampled 07/16/12 13:54	Oil & Grease, HEM	ND	5,000 µg/L	07/25/12	07/25/12
Client ID: **MW-6**					
Lab ID : STR12071941-06A Date Sampled 07/16/12 13:38	Oil & Grease, HEM	ND	5,000 µg/L	07/25/12	07/25/12
Client ID: **MW-7**					
Lab ID : STR12071941-07A Date Sampled 07/16/12 14:26	Oil & Grease, HEM	ND	5,000 µg/L	07/25/12	07/25/12
Client ID: **MW-8**					
Lab ID : STR12071941-08A Date Sampled 07/16/12 13:05	Oil & Grease, HEM	ND	5,000 µg/L	07/25/12	07/25/12
Client ID: **MW-9**					
Lab ID : STR12071941-09A Date Sampled 07/16/12 15:02	Oil & Grease, HEM	ND	5,000 µg/L	07/25/12	07/25/12

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

HEM = Hexane Extractable Material

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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6/26/12

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 07/19/12

Job: 2090-1970-01/Grimit Auto

Oil and Grease, SGT-HEM
EPA Method 1664A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **MW-1**				
Lab ID : STR12071941-01A Oil & Grease, SGT-HEM	41,000	5,000 µg/L	07/25/12	07/25/12
Date Sampled 07/16/12 15:21				
Client ID: **MW-4**				
Lab ID : STR12071941-04A Oil & Grease, SGT-HEM	26,000	5,000 µg/L	07/25/12	07/25/12
Date Sampled 07/16/12 14:43				

SGT-HEM = Silica Gel Treated Hexane Extractable Material

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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7/25/12
Report Date

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 07/19/12

Job: 2090-1970-01/Grimit Auto

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

		Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**MW-1**					
Lab ID :	STR12071941-01A	TPH-P (GRO)	16,000	2,000 µg/L	07/25/12	07/25/12
Date Sampled	07/16/12 15:21					
Client ID :	**MW-2**					
Lab ID :	STR12071941-02A	TPH-P (GRO)	60	50 µg/L	07/25/12	07/25/12
Date Sampled	07/16/12 13:21					
Client ID :	**MW-3**					
Lab ID :	STR12071941-03A	TPH-P (GRO)	ND	50 µg/L	07/25/12	07/25/12
Date Sampled	07/16/12 14:07					
Client ID :	**MW-4**					
Lab ID :	STR12071941-04A	TPH-P (GRO)	1,100	300 µg/L	07/26/12	07/26/12
Date Sampled	07/16/12 14:43					
Client ID :	**MW-5**					
Lab ID :	STR12071941-05A	TPH-P (GRO)	3,700	200 µg/L	07/25/12	07/25/12
Date Sampled	07/16/12 13:54					
Client ID :	**MW-6**					
Lab ID :	STR12071941-06A	TPH-P (GRO)	500	50 µg/L	07/25/12	07/25/12
Date Sampled	07/16/12 13:38					
Client ID :	**MW-7**					
Lab ID :	STR12071941-07A	TPH-P (GRO)	4,200	200 µg/L	07/25/12	07/25/12
Date Sampled	07/16/12 14:26					
Client ID :	**MW-8**					
Lab ID :	STR12071941-08A	TPH-P (GRO)	ND	50 µg/L	07/25/12	07/25/12
Date Sampled	07/16/12 13:05					
Client ID :	**MW-9**					
Lab ID :	STR12071941-09A	TPH-P (GRO)	430	100 µg/L	07/25/12	07/25/12
Date Sampled	07/16/12 15:02					

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Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

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7/26/12

Report Date

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-01A
Client I.D. Number: MW-1

Sampled: 07/16/12 15:21
Received: 07/19/12
Extracted: 07/25/12
Analyzed: 07/25/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	80 µg/L	26	1,1,2-Trichloroethane	ND	20 µg/L
2	Vinyl chloride	ND	20 µg/L	27	Toluene	240	10 µg/L
3	Chloroethane	ND	20 µg/L	28	Dibromochloromethane	ND	20 µg/L
4	Bromomethane	ND	80 µg/L	29	1,2-Dibromoethane (EDB)	ND	40 µg/L
5	Trichlorofluoromethane	ND	20 µg/L	30	Tetrachloroethene	ND	20 µg/L
6	1,1-Dichloroethene	ND	20 µg/L	31	Chlorobenzene	ND	20 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	200 µg/L	32	Ethylbenzene	590	10 µg/L
8	Dichloromethane	ND	80 µg/L	33	m,p-Xylene	780	10 µg/L
9	trans-1,2-Dichloroethene	ND	20 µg/L	34	Bromoform	ND	20 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	10 µg/L	35	o-Xylene	52	10 µg/L
11	1,1-Dichloroethane	ND	20 µg/L	36	1,1,2,2-Tetrachloroethane	ND	20 µg/L
12	Di-isopropyl Ether (DIPE)	ND	20 µg/L	37	1,3-Dichlorobenzene	ND	20 µg/L
13	cis-1,2-Dichloroethene	ND	20 µg/L	38	1,4-Dichlorobenzene	ND	20 µg/L
14	Chloroform	ND	20 µg/L	39	1,2-Dichlorobenzene	ND	20 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	20 µg/L				
16	1,2-Dichloroethane	ND	20 µg/L				
17	1,1,1-Trichloroethane	ND	20 µg/L				
18	Carbon tetrachloride	ND	20 µg/L				
19	Benzene	270	10 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	20 µg/L				
21	1,2-Dichloropropane	ND	20 µg/L				
22	Trichloroethene	ND	20 µg/L				
23	Bromodichloromethane	ND	20 µg/L				
24	cis-1,3-Dichloropropene	ND	20 µg/L				
25	trans-1,3-Dichloropropene	ND	20 µg/L				

Reporting Limits were increased due to high concentrations of target analytes

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-02A
Client I.D. Number: MW-2

Sampled: 07/16/12 13:21
Received: 07/19/12
Extracted: 07/25/12
Analyzed: 07/25/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L	26	1,1,2-Trichloroethane	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	Toluene	ND	0.50 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Dibromochloromethane	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	1,2-Dibromoethane (EDB)	ND	2.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	Tetrachloroethene	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	Chlorobenzene	ND	1.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32	Ethylbenzene	ND	0.50 µg/L
8	Dichloromethane	ND	2.0 µg/L	33	m,p-Xylene	ND	0.50 µg/L
9	trans-1,2-Dichloroethene	ND	1.0 µg/L	34	Bromoform	ND	1.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35	o-Xylene	ND	0.50 µg/L
11	1,1-Dichloroethane	ND	1.0 µg/L	36	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37	1,3-Dichlorobenzene	ND	1.0 µg/L
13	cis-1,2-Dichloroethene	ND	1.0 µg/L	38	1,4-Dichlorobenzene	ND	1.0 µg/L
14	Chloroform	ND	1.0 µg/L	39	1,2-Dichlorobenzene	ND	1.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L				
16	1,2-Dichloroethane	ND	1.0 µg/L				
17	1,1,1-Trichloroethane	ND	1.0 µg/L				
18	Carbon tetrachloride	ND	1.0 µg/L				
19	Benzene	1.6	0.50 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L				
21	1,2-Dichloropropane	ND	1.0 µg/L				
22	Trichloroethene	ND	1.0 µg/L				
23	Bromodichloromethane	ND	1.0 µg/L				
24	cis-1,3-Dichloropropene	ND	1.0 µg/L				
25	trans-1,3-Dichloropropene	ND	1.0 µg/L				

ND = Not Detected

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-03A
Client I.D. Number: MW-3

Sampled: 07/16/12 14:07
Received: 07/19/12
Extracted: 07/25/12
Analyzed: 07/25/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L	26	1,1,2-Trichloroethane	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	Toluene	ND	0.50 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Dibromochloromethane	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	1,2-Dibromoethane (EDB)	ND	2.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	Tetrachloroethene	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	Chlorobenzene	ND	1.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32	Ethylbenzene	ND	0.50 µg/L
8	Dichloromethane	ND	2.0 µg/L	33	m,p-Xylene	ND	0.50 µg/L
9	trans-1,2-Dichloroethene	ND	1.0 µg/L	34	Bromoform	ND	1.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35	o-Xylene	ND	0.50 µg/L
11	1,1-Dichloroethane	ND	1.0 µg/L	36	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37	1,3-Dichlorobenzene	ND	1.0 µg/L
13	cis-1,2-Dichloroethene	ND	1.0 µg/L	38	1,4-Dichlorobenzene	ND	1.0 µg/L
14	Chloroform	ND	1.0 µg/L	39	1,2-Dichlorobenzene	ND	1.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L				
16	1,2-Dichloroethane	ND	1.0 µg/L				
17	1,1,1-Trichloroethane	ND	1.0 µg/L				
18	Carbon tetrachloride	ND	1.0 µg/L				
19	Benzene	ND	0.50 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L				
21	1,2-Dichloropropane	ND	1.0 µg/L				
22	Trichloroethene	ND	1.0 µg/L				
23	Bromodichloromethane	ND	1.0 µg/L				
24	cis-1,3-Dichloropropene	ND	1.0 µg/L				
25	trans-1,3-Dichloropropene	ND	1.0 µg/L				

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-04A
Client I.D. Number: MW-4

Sampled: 07/16/12 14:43
Received: 07/19/12
Extracted: 07/26/12
Analyzed: 07/26/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	12 µg/L	26	1,1,2-Trichloroethane	ND	3.0 µg/L
2	Vinyl chloride	250	3.0 µg/L	27	Toluene	9.8	1.5 µg/L
3	Chloroethane	ND	3.0 µg/L	28	Dibromochloromethane	ND	3.0 µg/L
4	Bromomethane	ND	12 µg/L	29	1,2-Dibromoethane (EDB)	ND	6.0 µg/L
5	Trichlorofluoromethane	ND	3.0 µg/L	30	Tetrachloroethene	ND	3.0 µg/L
6	1,1-Dichloroethene	ND	3.0 µg/L	31	Chlorobenzene	ND	3.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	30 µg/L	32	Ethylbenzene	12	1.5 µg/L
8	Dichloromethane	ND	12 µg/L	33	m,p-Xylene	2.6	1.5 µg/L
9	trans-1,2-Dichloroethene	17	3.0 µg/L	34	Bromoform	ND	3.0 µg/L
10	Methyl tert-butyl ether (MTBE)	2.8	1.5 µg/L	35	o-Xylene	1.5	1.5 µg/L
11	1,1-Dichloroethane	ND	3.0 µg/L	36	1,1,2,2-Tetrachloroethane	ND	3.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	3.0 µg/L	37	1,3-Dichlorobenzene	7.3	3.0 µg/L
13	cis-1,2-Dichloroethene	30	3.0 µg/L	38	1,4-Dichlorobenzene	5.1	3.0 µg/L
14	Chloroform	ND	3.0 µg/L	39	1,2-Dichlorobenzene	17	3.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	3.0 µg/L				
16	1,2-Dichloroethane	ND	3.0 µg/L				
17	1,1,1-Trichloroethane	ND	3.0 µg/L				
18	Carbon tetrachloride	ND	3.0 µg/L				
19	Benzene	130	1.5 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	3.0 µg/L				
21	1,2-Dichloropropane	ND	3.0 µg/L				
22	Trichloroethene	ND	3.0 µg/L				
23	Bromodichloromethane	ND	3.0 µg/L				
24	cis-1,3-Dichloropropene	ND	3.0 µg/L				
25	trans-1,3-Dichloropropene	ND	3.0 µg/L				

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph D . Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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7/26/12
Report Date

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-05A
Client I.D. Number: MW-5

Sampled: 07/16/12 13:54
Received: 07/19/12
Extracted: 07/25/12
Analyzed: 07/25/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	8.0 µg/L	26	1,1,2-Trichloroethane	ND	2.0 µg/L
2	Vinyl chloride	ND	2.0 µg/L	27	Toluene	6.4	1.0 µg/L
3	Chloroethane	ND	2.0 µg/L	28	Dibromochloromethane	ND	2.0 µg/L
4	Bromomethane	ND	8.0 µg/L	29	1,2-Dibromoethane (EDB)	ND	4.0 µg/L
5	Trichlorofluoromethane	ND	2.0 µg/L	30	Tetrachloroethene	ND	2.0 µg/L
6	1,1-Dichloroethene	ND	2.0 µg/L	31	Chlorobenzene	ND	2.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	20 µg/L	32	Ethylbenzene	140	1.0 µg/L
8	Dichloromethane	ND	8.0 µg/L	33	m,p-Xylene	49	1.0 µg/L
9	trans-1,2-Dichloroethene	ND	2.0 µg/L	34	Bromoform	ND	2.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	1.0 µg/L	35	o-Xylene	3.0	1.0 µg/L
11	1,1-Dichloroethane	ND	2.0 µg/L	36	1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	2.0 µg/L	37	1,3-Dichlorobenzene	ND	2.0 µg/L
13	cis-1,2-Dichloroethene	ND	2.0 µg/L	38	1,4-Dichlorobenzene	ND	2.0 µg/L
14	Chloroform	ND	2.0 µg/L	39	1,2-Dichlorobenzene	ND	2.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L				
16	1,2-Dichloroethane	ND	2.0 µg/L				
17	1,1,1-Trichloroethane	ND	2.0 µg/L				
18	Carbon tetrachloride	ND	2.0 µg/L				
19	Benzene	28	1.0 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L				
21	1,2-Dichloropropane	ND	2.0 µg/L				
22	Trichloroethene	ND	2.0 µg/L				
23	Bromodichloromethane	ND	2.0 µg/L				
24	cis-1,3-Dichloropropene	ND	2.0 µg/L				
25	trans-1,3-Dichloropropene	ND	2.0 µg/L				

Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

7/26/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-06A
Client I.D. Number: MW-6

Sampled: 07/16/12 13:38
Received: 07/19/12
Extracted: 07/25/12
Analyzed: 07/25/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L	26	1,1,2-Trichloroethane	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	Toluene	0.97	0.50 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Dibromochloromethane	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	1,2-Dibromoethane (EDB)	ND	2.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	Tetrachloroethene	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	Chlorobenzene	ND	1.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32	Ethylbenzene	14	0.50 µg/L
8	Dichloromethane	ND	2.0 µg/L	33	m,p-Xylene	9.8	0.50 µg/L
9	trans-1,2-Dichloroethene	ND	1.0 µg/L	34	Bromoform	ND	1.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35	o-Xylene	0.68	0.50 µg/L
11	1,1-Dichloroethane	ND	1.0 µg/L	36	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37	1,3-Dichlorobenzene	ND	1.0 µg/L
13	cis-1,2-Dichloroethene	ND	1.0 µg/L	38	1,4-Dichlorobenzene	ND	1.0 µg/L
14	Chloroform	ND	1.0 µg/L	39	1,2-Dichlorobenzene	ND	1.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L				
16	1,2-Dichloroethane	ND	1.0 µg/L				
17	1,1,1-Trichloroethane	ND	1.0 µg/L				
18	Carbon tetrachloride	ND	1.0 µg/L				
19	Benzene	26	0.50 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L				
21	1,2-Dichloropropane	ND	1.0 µg/L				
22	Trichloroethene	ND	1.0 µg/L				
23	Bromodichloromethane	ND	1.0 µg/L				
24	cis-1,3-Dichloropropene	ND	1.0 µg/L				
25	trans-1,3-Dichloropropene	ND	1.0 µg/L				

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D , Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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7/26/12
Report Date

Alpha Analytical, Inc.

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-07A
Client I.D. Number: MW-7

Sampled: 07/16/12 14:26
Received: 07/19/12
Extracted: 07/25/12
Analyzed: 07/25/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	8.0 µg/L	26	1,1,2-Trichloroethane	ND	2.0 µg/L
2	Vinyl chloride	52	2.0 µg/L	27	Toluene	41	1.0 µg/L
3	Chloroethane	ND	2.0 µg/L	28	Dibromochloromethane	ND	2.0 µg/L
4	Bromomethane	ND	8.0 µg/L	29	1,2-Dibromoethane (EDB)	ND	4.0 µg/L
5	Trichlorofluoromethane	ND	2.0 µg/L	30	Tetrachloroethene	ND	2.0 µg/L
6	1,1-Dichloroethene	ND	2.0 µg/L	31	Chlorobenzene	ND	2.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	22	20 µg/L	32	Ethylbenzene	31	1.0 µg/L
8	Dichloromethane	ND	8.0 µg/L	33	m,p-Xylene	26	1.0 µg/L
9	trans-1,2-Dichloroethene	ND	2.0 µg/L	34	Bromoform	ND	2.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	1.0 µg/L	35	o-Xylene	5.4	1.0 µg/L
11	1,1-Dichloroethane	ND	2.0 µg/L	36	1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
12	Di-isopropyl Ether (DIPE)	2.0	2.0 µg/L	37	1,3-Dichlorobenzene	ND	2.0 µg/L
13	cis-1,2-Dichloroethene	180	2.0 µg/L	38	1,4-Dichlorobenzene	ND	2.0 µg/L
14	Chloroform	ND	2.0 µg/L	39	1,2-Dichlorobenzene	ND	2.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	2.0 µg/L				
16	1,2-Dichloroethane	ND	2.0 µg/L				
17	1,1,1-Trichloroethane	ND	2.0 µg/L				
18	Carbon tetrachloride	ND	2.0 µg/L				
19	Benzene	160	1.0 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	2.0 µg/L				
21	1,2-Dichloropropane	ND	2.0 µg/L				
22	Trichloroethene	ND	2.0 µg/L				
23	Bromodichloromethane	ND	2.0 µg/L				
24	cis-1,3-Dichloropropene	ND	2.0 µg/L				
25	trans-1,3-Dichloropropene	ND	2.0 µg/L				

Reporting Limits were increased due to high concentrations of target analytes

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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Report Date

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-08A
Client I.D. Number: MW-8

Sampled: 07/16/12 13:05
Received: 07/19/12
Extracted: 07/25/12
Analyzed: 07/25/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	2.0 µg/L	26	1,1,2-Trichloroethane	ND	1.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L	27	Toluene	ND	0.50 µg/L
3	Chloroethane	ND	1.0 µg/L	28	Dibromochloromethane	ND	1.0 µg/L
4	Bromomethane	ND	2.0 µg/L	29	1,2-Dibromoethane (EDB)	ND	2.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L	30	Tetrachloroethene	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L	31	Chlorobenzene	ND	1.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	32	Ethylbenzene	ND	0.50 µg/L
8	Dichloromethane	ND	2.0 µg/L	33	m,p-Xylene	ND	0.50 µg/L
9	trans-1,2-Dichloroethene	ND	1.0 µg/L	34	Bromoform	ND	1.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35	o-Xylene	ND	0.50 µg/L
11	1,1-Dichloroethane	ND	1.0 µg/L	36	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	37	1,3-Dichlorobenzene	ND	1.0 µg/L
13	cis-1,2-Dichloroethene	ND	1.0 µg/L	38	1,4-Dichlorobenzene	ND	1.0 µg/L
14	Chloroform	ND	1.0 µg/L	39	1,2-Dichlorobenzene	ND	1.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L				
16	1,2-Dichloroethane	ND	1.0 µg/L				
17	1,1,1-Trichloroethane	ND	1.0 µg/L				
18	Carbon tetrachloride	ND	1.0 µg/L				
19	Benzene	ND	0.50 µg/L				
20	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L				
21	1,2-Dichloropropane	ND	1.0 µg/L				
22	Trichloroethene	ND	1.0 µg/L				
23	Bromodichloromethane	ND	1.0 µg/L				
24	cis-1,3-Dichloropropene	ND	1.0 µg/L				
25	trans-1,3-Dichloropropene	ND	1.0 µg/L				

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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7/26/12
Report Date

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255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: 2090-1970-01/Grimit Auto

Attn: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005

Alpha Analytical Number: STR12071941-09A
Client I.D. Number: MW-9

Sampled: 07/16/12 15:02
Received: 07/19/12
Extracted: 07/25/12
Analyzed: 07/25/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	4.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	4.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L
8	Dichloromethane	ND	4.0 µg/L
9	trans-1,2-Dichloroethene	ND	1.0 µg/L
10	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L
11	1,1-Dichloroethane	ND	1.0 µg/L
12	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L
13	cis-1,2-Dichloroethene	ND	1.0 µg/L
14	Chloroform	ND	1.0 µg/L
15	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L
16	1,2-Dichloroethane	ND	1.0 µg/L
17	1,1,1-Trichloroethane	ND	1.0 µg/L
18	Carbon tetrachloride	ND	1.0 µg/L
19	Benzene	ND	0.50 µg/L
20	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L
21	1,2-Dichloropropane	ND	1.0 µg/L
22	Trichloroethene	ND	1.0 µg/L
23	Bromodichloromethane	ND	1.0 µg/L
24	cis-1,3-Dichloropropene	ND	1.0 µg/L
25	trans-1,3-Dichloropropene	ND	1.0 µg/L
26	1,1,2-Trichloroethane	ND	1.0 µg/L
27	Toluene	ND	0.50 µg/L
28	Dibromochloromethane	ND	1.0 µg/L
29	1,2-Dibromoethane (EDB)	ND	2.0 µg/L
30	Tetrachloroethene	ND	1.0 µg/L
31	Chlorobenzene	ND	1.0 µg/L
32	Ethylbenzene	0.58	0.50 µg/L
33	m,p-Xylene	0.72	0.50 µg/L
34	Bromoform	ND	1.0 µg/L
35	o-Xylene	ND	0.50 µg/L
36	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
37	1,3-Dichlorobenzene	ND	1.0 µg/L
38	1,4-Dichlorobenzene	ND	1.0 µg/L
39	1,2-Dichlorobenzene	ND	1.0 µg/L

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected
Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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7/26/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: STR12071941 **Job:** 2090-1970-01/Grimit Auto

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12071941-01A	MW-1	Aqueous	2
12071941-02A	MW-2	Aqueous	2
12071941-03A	MW-3	Aqueous	2
12071941-04A	MW-4	Aqueous	2
12071941-05A	MW-5	Aqueous	2
12071941-06A	MW-6	Aqueous	2
12071941-07A	MW-7	Aqueous	2
12071941-08A	MW-8	Aqueous	2
12071941-09A	MW-9	Aqueous	2

7/26/12

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *26-Jul-12*

QC Summary Report

Work Order: 12071941

Method Blank

Type: **MBLK** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0725OG** Analysis Date: **07/25/2012 00:00**

Sample ID: **MBLK-W0725OG** Units : **µg/L** Run ID: **WETLAB_120725D** Prep Date: **07/25/2012 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Oil & Grease, HEM	ND	5000								

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0725OG** Analysis Date: **07/25/2012 00:00**

Sample ID: **LCS-W0725OG** Units : **µg/L** Run ID: **WETLAB_120725D** Prep Date: **07/25/2012 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Oil & Grease, HEM	78700	5000	80000		98	78	114			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0725OG** Analysis Date: **07/25/2012 00:00**

Sample ID: **12071941-01AMS** Units : **µg/L** Run ID: **WETLAB_120725D** Prep Date: **07/25/2012 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Oil & Grease, HEM	152000	5000	80000	72900	99	78	114			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

HEM = Hexane Extractable Material

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *26-Jul-12*

QC Summary Report

Work Order: 12071941

Method Blank

Type: **MBLK** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0725SG** Analysis Date: **07/25/2012 00:00**

Sample ID: **MBLK-W0725SG** Units : **µg/L** Run ID: **WETLAB_120725E** Prep Date: **07/25/2012 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Oil & Grease, SGT-HEM	ND	5000								

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0725SG** Analysis Date: **07/25/2012 00:00**

Sample ID: **LCS-W0725SG** Units : **µg/L** Run ID: **WETLAB_120725E** Prep Date: **07/25/2012 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Oil & Grease, SGT-HEM	39400	5000	40000		99	64	132			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0725SG** Analysis Date: **07/25/2012 00:00**

Sample ID: **12071941-01AMS** Units : **µg/L** Run ID: **WETLAB_120725E** Prep Date: **07/25/2012 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Oil & Grease, SGT-HEM	90300	5000	40000	41300	123	64	132			

Comments:

Calculations are based off of raw (non-rounded) data. However; for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

SGT-HEM = Silica Gel Treated Hexane Extractable Material

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 26-Jul-12

QC Summary Report

Work Order: 12071941

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**

File ID: **12072504.D** Batch ID: **MS12W0725B** Analysis Date: **07/25/2012 11:24**

Sample ID: **MBLK MS12W0725B** Units : µg/L Run ID: **MSD_12_120725A** Prep Date: **07/25/2012 11:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.08		10		91	70	130			
Surr: Toluene-d8	11.4		10		114	70	130			
Surr: 4-Bromofluorobenzene	11.5		10		115	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**

File ID: **12072502.D** Batch ID: **MS12W0725B** Analysis Date: **07/25/2012 10:39**

Sample ID: **GLCS MS12W0725B** Units : µg/L Run ID: **MSD_12_120725A** Prep Date: **07/25/2012 10:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	423	50	400		106	70	130			
Surr: 1,2-Dichloroethane-d4	9.74		10		97	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	8.25		10		83	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**

File ID: **12072517.D** Batch ID: **MS12W0725B** Analysis Date: **07/25/2012 16:31**

Sample ID: **12071810-03AGS** Units : µg/L Run ID: **MSD_12_120725A** Prep Date: **07/25/2012 16:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1820	250	2000	0	91	51	144			
Surr: 1,2-Dichloroethane-d4	47.6		50		95	70	130			
Surr: Toluene-d8	51.4		50		103	70	130			
Surr: 4-Bromofluorobenzene	42.5		50		85	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**

File ID: **12072518.D** Batch ID: **MS12W0725B** Analysis Date: **07/25/2012 16:54**

Sample ID: **12071810-03AGSD** Units : µg/L Run ID: **MSD_12_120725A** Prep Date: **07/25/2012 16:54**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2000	250	2000	0	99.8	51	144	1822	9.1(29)	
Surr: 1,2-Dichloroethane-d4	48.1		50		96	70	130			
Surr: Toluene-d8	52.5		50		105	70	130			
Surr: 4-Bromofluorobenzene	44.1		50		88	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 26-Jul-12

QC Summary Report

Work Order: 12071941

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **12072504.D** Batch ID: **MS12W0725A** Analysis Date: **07/25/2012 11:24**

Sample ID: **MBLK MS12W0725A** Units : µg/L Run ID: **MSD_12_120725A** Prep Date: **07/25/2012 11:24**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	2								
Vinyl chloride	ND	1								
Chloroethane	ND	1								
Bromomethane	ND	2								
Trichlorofluoromethane	ND	1								
1,1-Dichloroethene	ND	1								
Tertiary Butyl Alcohol (TBA)	ND	10								
Dichloromethane	ND	2								
trans-1,2-Dichloroethene	ND	1								
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,1-Dichloroethane	ND	1								
Di-isopropyl Ether (DIPE)	ND	1								
cis-1,2-Dichloroethene	ND	1								
Chloroform	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
1,2-Dichloroethane	ND	1								
1,1,1-Trichloroethane	ND	1								
Carbon tetrachloride	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
1,2-Dichloropropane	ND	1								
Trichloroethene	ND	1								
Bromodichloromethane	ND	1								
cis-1,3-Dichloropropene	ND	1								
trans-1,3-Dichloropropene	ND	1								
1,1,2-Trichloroethane	ND	1								
Toluene	ND	0.5								
Dibromochloromethane	ND	1								
1,2-Dibromoethane (EDB)	ND	2								
Tetrachloroethene	ND	1								
Chlorobenzene	ND	1								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND	1								
o-Xylene	ND	0.5								
1,1,2,2-Tetrachloroethane	ND	1								
1,3-Dichlorobenzene	ND	1								
1,4-Dichlorobenzene	ND	1								
1,2-Dichlorobenzene	ND	1								
Surr: 1,2-Dichloroethane-d4	9.08		10		91	70	130			
Surr: Toluene-d8	11.4		10		114	70	130			
Surr: 4-Bromofluorobenzene	11.5		10		115	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **12072503.D** Batch ID: **MS12W0725A** Analysis Date: **07/25/2012 11:02**

Sample ID: **LCS MS12W0725A** Units : µg/L Run ID: **MSD_12_120725A** Prep Date: **07/25/2012 11:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.5	1	10		105	80	120			
Methyl tert-butyl ether (MTBE)	8.07	0.5	10		81	65	140			
Benzene	10.6	0.5	10		106	70	130			
Trichloroethene	10.6	1	10		106	65	144			
Toluene	10.3	0.5	10		103	80	120			
Chlorobenzene	9.92	1	10		99	70	130			
Ethylbenzene	10.7	0.5	10		107	80	120			
m,p-Xylene	9.66	0.5	10		97	70	130			
o-Xylene	9.82	0.5	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10		99	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	7.77		10		78	70	130			

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *26-Jul-12*

QC Summary Report

Work Order: 12071941

Sample Matrix Spike Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **12072515.D** Batch ID: **MS12W0725A** Analysis Date: **07/25/2012 15:46**

Sample ID: **12071810-03AMS** Units : µg/L Run ID: **MSD_12_120725A** Prep Date: **07/25/2012 15:46**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	32.1	2.5	50	0	64	64	130			
Methyl tert-butyl ether (MTBE)	36.8	1.3	50	0	74	47	150			
Benzene	47.1	1.3	50	0	94	59	138			
Trichloroethene	50.9	2.5	50	0	102	65	144			
Toluene	46.4	1.3	50	0	93	68	130			
Chlorobenzene	45.7	2.5	50	0	91	70	130			
Ethylbenzene	49.1	1.3	50	0	98	68	130			
m,p-Xylene	42.5	1.3	50	0	85	68	131			
o-Xylene	44.4	1.3	50	0	89	70	130			
Surr: 1,2-Dichloroethane-d4	50.4		50		101	70	130			
Surr: Toluene-d8	50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene	41.6		50		83	70	130			

Sample Matrix Spike Duplicate Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **12072516.D** Batch ID: **MS12W0725A** Analysis Date: **07/25/2012 16:08**

Sample ID: **12071810-03AMSD** Units : µg/L Run ID: **MSD_12_120725A** Prep Date: **07/25/2012 16:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	33	2.5	50	0	66	64	130	32.11	2.8(21)	
Methyl tert-butyl ether (MTBE)	38	1.3	50	0	76	47	150	36.78	3.2(40)	
Benzene	48.3	1.3	50	0	97	59	138	47.09	2.6(21)	
Trichloroethene	50.1	2.5	50	0	100	65	144	50.92	1.7(20)	
Toluene	48.1	1.3	50	0	96	68	130	46.37	3.7(20)	
Chlorobenzene	47.4	2.5	50	0	95	70	130	45.73	3.6(20)	
Ethylbenzene	50.8	1.3	50	0	102	68	130	49.09	3.5(20)	
m,p-Xylene	43.9	1.3	50	0	88	68	131	42.51	3.2(20)	
o-Xylene	45.5	1.3	50	0	91	70	130	44.37	2.4(20)	
Surr: 1,2-Dichloroethane-d4	49.8		50		99.6	70	130			
Surr: Toluene-d8	49.9		50		99.7	70	130			
Surr: 4-Bromofluorobenzene	38.7		50		77	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR12071941

Report Due By : 5:00 PM On : 26-Jul-12

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

EDD Required : **Yes**

Sampled by : Shane Edmunds

PO :

Client's COC # : 58441 Job : 2090-1970-01/Grimit Auto

Cooler Temp	Samples Received	Date Printed
0 °C	19-Jul-12	25-Jul-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests OG_HEM_W	OG_SGT_W	TPH/P_W	VOC_W	Sample Remarks
STR12071941-01A	MW-1	AQ	07/16/12 15:21	6	0	5	X	X	GAS-C	8260/OXYS/ EDB_Cs	
STR12071941-02A	MW-2	AQ	07/16/12 13:21	6	0	5	X		GAS-C	8260/OXYS/ EDB_Cs	
STR12071941-03A	MW-3	AQ	07/16/12 14:07	6	0	5	X		GAS-C	8260/OXYS/ EDB_Cs	
STR12071941-04A	MW-4	AQ	07/16/12 14:43	6	0	5	X	X	GAS-C	8260/OXYS/ EDB_Cs	
STR12071941-05A	MW-5	AQ	07/16/12 13:54	6	0	5	X		GAS-C	8260/OXYS/ EDB_Cs	
STR12071941-06A	MW-6	AQ	07/16/12 13:38	6	0	5	X		GAS-C	8260/OXYS/ EDB_Cs	
STR12071941-07A	MW-7	AQ	07/16/12 14:26	6	0	5	X		GAS-C	8260/OXYS/ EDB_Cs	
STR12071941-08A	MW-8	AQ	07/16/12 13:05	6	0	5	X		GAS-C	8260/OXYS/ EDB_Cs	
STR12071941-09A	MW-9	AQ	07/16/12 15:02	6	0	5	X		GAS-C	8260/OXYS/ EDB_Cs	

Comments: Security seals intact. Frozen ice. VOC list logged in as 8260/OXYS/EDB. Amended 7/25/12 to cancel Oil & Grease SGTon samples -02A, -03A, and -05A through -09A, due to lab protocol. SN :

	Signature	Print Name	Company	Date/Time
Logged in by:		Jennifer Den	Alpha Analytical, Inc.	7/25/12 1650

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : STR12071941

Report Due By : 5:00 PM On : 26-Jul-12

Report Attention	Phone Number	EMail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

PO :

Client's COC # : 58441 Job : 2090-1970-01/Grimit Auto

EDD Required : **Yes**

Sampled by : Shane Edmunds

Cooler Temp	Samples Received	Date Printed
0 °C	19-Jul-12	**19-Jul-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests OG_HEM_W	OG_SGT_W	TPH/P_W	VOC_W					Sample Remarks
STR12071941-01A	MW-1	AQ	07/16/12 15:21	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					
STR12071941-02A	MW-2	AQ	07/16/12 13:21	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					
STR12071941-03A	MW-3	AQ	07/16/12 14:07	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					
STR12071941-04A	MW-4	AQ	07/16/12 14:43	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					
STR12071941-05A	MW-5	AQ	07/16/12 13:54	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					
STR12071941-06A	MW-6	AQ	07/16/12 13:38	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					
STR12071941-07A	MW-7	AQ	07/16/12 14:26	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					
STR12071941-08A	MW-8	AQ	07/16/12 13:05	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					
STR12071941-09A	MW-9	AQ	07/16/12 15:02	6	0	5	X	X	GAS-C	8260/OXYS/EDB_Cs					

Comments: Security seals intact. Frozen ice. VOC list logged in as 8260/OXYS/EDB. :

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Deni	Alpha Analytical, Inc.	7/19/12 1126

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:
Company Name: Stratus Environmental
Attn: Accounts Payable
Address:
City, State, Zip:
Phone Number: Fax:

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State? AZ ___ CA X NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___

58441

Page # 1 of 1

Consultant / Client Name: Grimit Auto
Address: 1970 Seminary Ave
City, State, Zip: Oakland

Job #: 2090-1970-01
Job Name:
Report Attention / Project Manager
Name: Scott Bittinger
Email:
Phone: Mobile:

Data Validation Level: III or IV

EDD / EDF? YES X NO
Global ID # T0600100667

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	GRO	BTEX, 5 Oxys	1,2 DCA, EDB	O&G w/ silica gel cleanup (1664)	HVOCs	REMARKS
1521	7/16	AQ	STR1207F41-01A	MW-1	STD		4V/2L	X	X	X	X	X	
1321			02A	MW-2									O&G = Oil & Grease by 1664
1407			03A	MW-3									
1443			04A	MW-4									
1354			05A	MW-5									HVOCs = Halogenated Volatile Organic Compounds
1338			06A	MW-6									
1426			07A	MW-7									
1305			08A	MW-8									
1502			09A	MW-9									

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Shane Edmunds

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
Shane Edmunds	Joe DeSilva	7-17-12	1630
	Alpha	7/19/12	1055

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

APPENDIX D

GEOTRACKER ELECTRONIC SUBMITTAL CONFIRMATIONS

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:	3Q12 QMR - GEOWELL
Facility Global ID:	T0600100667
Facility Name:	GRIMIT AUTO REPAIR & SERVICE
File Name:	GEO_WELL.zip
Organization Name:	Stratus Environmental, Inc.
Username:	STRATUS NOCAL
IP Address:	12.186.106.98
Submittal Date/Time:	8/13/2012 11:02:24 AM
Confirmation Number:	5075162768

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	EDF
Report Title:	3Q12 QMR - ANALTYICAL 7-16-12
Report Type:	Monitoring Report - Quarterly
Facility Global ID:	T0600100667
Facility Name:	GRIMIT AUTO REPAIR & SERVICE
File Name:	12071941_EDF.zip
Organization Name:	Stratus Environmental, Inc.
Username:	STRATUS NOCAL
IP Address:	12.186.106.98
Submittal Date/Time:	8/13/2012 11:03:49 AM
Confirmation Number:	1578614711

VIEW QC REPORT

VIEW DETECTIONS REPORT