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November 30, 2010

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

RE: Groundwater Monitoring Report – 4th Quarter 2010

**SITE: Sheaff's Garage
5930 College Avenue, Oakland, California
ACHCSA Fuel Leak Case No. RO0000377
GGE Project 2014**

Dear Ms. Jakub:

Upon my authorization, Golden Gate Environmental, Inc. has prepared a Groundwater Monitoring Report for the 4th Quarter 2010 sampling activities conducted at the above-referenced property on October 14, 2010. GGTR has uploaded an electronic copy of the document to the State Water Resources Control Board's GeoTracker Database System. Should you have any questions, please contact Mr. Brent Wheeler, Project Engineer of GGTR at (415) 512-1555 at your convenience.

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

Respectfully Submitted,


Dr. Brian Sheaff
William G. Sheaff TTE Trust

Distribution: (1) Addressee



GROUNDWATER MONITORING REPORT 4th Quarter 2010

**Sheaff's Garage
5930 College Avenue
Oakland, CA 94618**

ACHCSA Fuel Leak Case No. RO0000377

Prepared For:

William G. Sheaff TTE Trust
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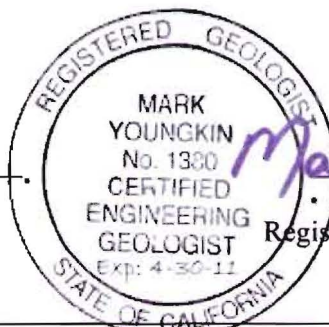
Prepared By:

Golden Gate Environmental, Inc.
3730 Mission Street
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Project No. 2014

Sampling Date: October 14, 2010
Report Date: November 30, 2010

Brent Wheeler
Project Manager



Mark Youngkin
Registered Geologist CEG No. 1380

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**GROUNDWATER MONITORING REPORT
4th Quarter 2010**

Sheaff's Garage, 5930 College Avenue, Oakland, CA

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- A Fluid-Level Monitoring Data Form
Well Purging/Sampling Data Sheets
- B Laboratory Certificate of Analysis
Chain of Custody Record
GeoTracker Upload Confirmation Forms
Liquid Waste Disposal Manifest (November 2010)
EPA On-Line Tools for Site Assessment Calculation Sheet
CRA Groundwater Monitoring Data and Analytical Results Tables 1-3
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GROUNDWATER MONITORING REPORT

4th Quarter 2010

Sheaff's Garage, 5930 College Avenue, Oakland, California

INTRODUCTION

Golden Gate Environmental, Inc. (GGE) presents the results of the October 14, 2010, groundwater monitoring and sampling event conducted at 5930 College Avenue in Oakland, California (the Site). The Alameda County Health Care Services Agency (ACHCSA) has designated the Site as Fuel Leak Case No. RO000377. Figure 1 presents a *Site Location Map*. Figure 2 titled *Site Plan*, depicts the Site, adjacent properties, and associated features. Figure 3 titled *Groundwater Data Diagram* shows the groundwater flow direction for the October 2010 event. Figure 4 titled *TPH Gasoline in Groundwater* illustrates the distribution of total petroleum hydrocarbons (TPH) as gasoline in groundwater across the Site. Table 1 provides a tabulated summary of the laboratory results of historical groundwater sample analyses and fluid-level monitoring data at the Site. Table 2 provides a tabulated summary of sample analyses for Volatile Organic Compounds (VOCs).

Conestoga-Rovers & Associates (CRA; Emeryville, CA) and Gettler-Ryan, Inc. (GR; Dublin, CA) is currently conducting a separate groundwater investigation for the former Chevron Station #20-9339 located adjacent to the north side of the Site at 5940 College Avenue. Two groundwater monitoring wells (GR-MW1 & GR-MW2) are used to evaluate the hydrocarbon concentrations in groundwater at this property. In a letter dated September 1, 2008, the ACHCSA reviewed the case file and requested that additional characterization be performed and a conceptual site model be prepared for the former Chevron Station property.

Joint monitoring and sampling activities have been conducted on a quarterly basis since October 2000. Since the April 8, 2002 event, Gettler-Ryan has monitored and sampled each well on a biannual basis. Gettler-Ryan performed their most recent monitoring and sampling of GR-MW1 & GR-MW2 on October 14, 2010. As of the First Quarter 2009 event, GGE has been contracted to perform the groundwater monitoring activities at the Site in lieu of Golden Gate Tank Removal, Inc. Figures 2 and 3 show the location of each Gettler-Ryan well relative to the monitor wells on the subject property. Attachment B includes summary tables provided by Conestoga-Rovers & Associates titled *Groundwater Monitoring Data and Analytical Results (Tables 1-3) and Field Measurements (Table 4)*.

SITE DESCRIPTION

The Site is located at 5930 College Avenue along the east side of College Avenue between Harwood Street and Chabot Road. The Site lies approximately 2.5 miles east of Interstate 80 and the San Francisco Bay. Figure 1 shows the general location of the Site. Stoddard Automotive (formerly Sheaff's Service Garage) currently occupies the Site for the service and repair of automobiles. No active fuel storage or distribution occurs at the Site. The Site

is approximately 5,500 square feet in area with about 75% utilized by a covered warehouse/garage and 25% used as an exterior (uncovered) storage yard. The ground surface of the entire Site is paved with concrete. The elevation of the Site is approximately 195 feet above Mean Sea Level as shown on Figure 1. The Site is relatively flat lying with the topographic relief in the immediate vicinity of the Site generally directed toward the southwest. Regional topographic relief appears to be directed toward the west-southwest in the general direction of the San Francisco Bay.

PROJECT HISTORY

One 675-gallon gasoline Underground Storage Tank (UST) and one 340-gallon waste oil UST were located beneath the sidewalk at the southwest corner of the Site. Figure 2 depicts pertinent Site structures and adjacent properties. In August 1996, Golden Gate Tank Removal, Inc. (GGTR) removed two USTs and an associated fuel dispenser from the Site at the locations shown in Figure 2. The following table presents a summary of the tank designations, size, type of construction and contents:

Designation	Construction	Diameter (Feet)	Length (Feet)	Volume (Gallons)	Contents
TANK 1	Steel	4	7	675	Gasoline
TANK 2	Steel	4	3.5	340	Waste Oil

GGTR removed the residual fuel from the subsurface product piping (left in place), thoroughly flushed and drained the piping, and capped both ends. GGTR over-excavated the gasoline-contaminated soil surrounding the former UST location. The tank removal and over-excavation activities are documented in the GGTR document titled *Tank Removal Report* dated October 11, 1996.

Between May 1998 and October 1999, GGTR performed a preliminary subsurface soil boring investigation at the Site and subsequently installed three groundwater monitoring wells in the vicinity of the former UST cavity. Soil borings B1 to B3 were advanced immediately south, east, and west, respectively, of the former UST cavity. Following review and interpretation of all field and soil sample analytical data collected during these activities, additional soil borings B4 to B6 were then advanced at the Site to further assess the extent of contamination in soil and the potential impact to groundwater. The latter borings were converted to 2-inch-diameter groundwater monitoring wells MW-1 to MW-3. Figure 2 depicts the boring and monitoring well locations.

Based on the residual elevated concentrations of gasoline-range hydrocarbons measured in the groundwater samples collected during the April 2001 quarterly monitoring activities, the ACHCSA, in a letter dated July 9, 2001, requested a work plan to assess whether any additional contaminant sources may potentially exist onsite that may be contributing to the elevated hydrocarbon concentration in groundwater. GGTR submitted the work plan on December 19, 2001, which was subsequently approved by the ACHCSA in a letter dated January 3, 2002. In August, October, and November 2002, GGTR implemented the UST

product line excavation / removal activities and installed soil borings B7 to B11. Figure 2 depicts the locations of these borings, as well as the location of the former product line and associated sample points. Details are presented in the GGTR document titled *Report of Additional Soil and Groundwater Investigation* dated June 10, 2003.

Based on review of the GGTR report, the ACHCSA in their letter dated September 8, 2003, requested a work plan addressing additional source and site characterization of contaminants in soil and groundwater at the Site. GGTR submitted the Work Plan for Additional Site Characterization on December 29, 2003, and its Addendum on September 30, 2004, which were conditionally approved by the ACHCSA in letters dated June 3, 2004, and February 22, 2005. Between April and July 2005, GGTR advanced additional borings B12 to B24 to approximately 25 feet below grade surface (fbg) and Hydropunch borings HB-1 to HB-6 to approximately 15 fbg, and converted HB-2 to piezometer well PW-1. Figure 2 shows the location of each additional soil boring. Details of this investigation are presented in the GGTR document titled *Report of Additional Site Characterization and Groundwater Monitoring* dated August 29, 2006.

Between October 2003 and October 2009, GGTR conducted additional quarterly groundwater monitoring and sampling activities at the Site and submitted their associated Groundwater Monitoring Reports to the ACHCSA. GGTR was not contracted to conduct the third Quarter 2006, first Quarter 2008, and third Quarter 2009 groundwater monitoring events at the Site. The results of the October 2009 monitoring and sampling events are presented in the following sections.

Based on review of the conclusions and recommendations presented in the GGTR documents titled *Report of Additional Site Characterization* dated August 2006 and *Groundwater Monitoring Report* dated May 30, 2008, the ACHCSA on July 25, 2008, issued a letter requesting a work plan to implement the conditionally approved activities. The additional work activities are to include 1) vertical and horizontal delineation of dissolved contaminant plume(s), 2) resurveying the wellhead elevations of all existing Site wells and piezometer well, 3) further preferential pathway evaluation of the Harwood Creek conduit down gradient of the Site, 4) further characterization of the PCE-impacted groundwater in the vicinity of PW-1, and 5) updating the existing Site Conceptual Model with data acquired from the additional Site characterization activities. On June 1, 2009, GGTR submitted the *Soil and Water Investigation Work Plan & Site Conceptual Model* to the ACHCSA for review.

In a letter dated August 3, 2010, the ACHCSA requested an addendum to GGTR's June 2009 Work Plan to further assess the vapor intrusion pathway at the site or adjacent residential building, and provide a plan for soil vapor sampling. On December 1, 2010, GGTR submitted its Work Plan for Soil gas Sampling (Report dated October 29, 2010) to the ACHCSA for review.

GROUNDWATER MONITORING & SAMPLING: OCTOBER 2009

The scope of work for the Fourth Quarter 2010 groundwater monitoring and sampling event includes the following:

- Monitoring, purging and sampling of monitoring wells MW-1, MW-2, MW-3 and PW-1
- Laboratory analysis of groundwater samples
- Waste management
- Electronic data upload to GeoTracker Database System
- Data interpretation

Groundwater Monitoring and Sampling

On October 14, 2010, GGE monitored and sampled wells MW-1, MW-2, MW-3 and PW-1. Prior to purging and sampling, GGE removed the well cover and locking compression cap from each well and allowed the groundwater in each well column to stabilize for approximately 20 minutes. GGE then measured and recorded the depth to product/groundwater using an electronic water level indicator. Fluid levels were measured relative to the north side of the top of each well casing to the nearest 0.01 foot.

GGE subsequently purged groundwater from the monitor wells using a peristaltic pump (average flow rate @ 0.03 to 0.11 gallon per minute), and simultaneously monitored and recorded the pH, temperature, and specific conductivity of the purged well water. GGE terminated well purging after evacuation of approximately three well casing volumes or three successive readings of each parameter varied by less than 0.1, 10%, and 3%, respectively. Well PW-1 dewatered completely prior to removing three casing volumes. Groundwater parameters appeared to stabilize prior to dewatering of PW-1. Groundwater recharge was very slow in PW-1 and a groundwater sample was recovered after sufficient water recovery to allow sample collection. GGE transferred the purge water directly to a 55-gallon, D.O.T.-approved steel drum.

After the groundwater in each well recharged sufficiently to allow sample collection, GGE recovered a groundwater sample using a peristaltic pump with dedicated tubing lowered just below the last measured groundwater level. The groundwater sample was collected from the discharge end of the dedicated tubing into pre-cleaned, laboratory-provided sample containers. The sample containers were sealed with Teflon caps and all volatile organic analysis (VOA) vials were inverted and checked to insure that no entrapped air was present. The samples were properly labeled and stored in a cooler chilled to approximately 4°C. Attachment A presents a copy of the Fluid-Level Monitoring Data Form and Well Purging/Sampling Data Sheets for this event.

Water Sample Analytical Methods

GGE submitted the groundwater samples under formal chain of custody command to Torrent Laboratory, Inc., a State-certified analytical laboratory (CA ELAP #1991) in Milpitas, California, for laboratory analysis of the following fuel constituents:

- Total Petroleum Hydrocarbons (TPH) as Gasoline by EPA Method SW8260B
- Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) by EPA Method SW8260B
- Fuel Oxygenates by EPA Method SW8260B

The groundwater sample collected from well PW-1 was additionally analyzed for other VOCs (full list) by EPA Method SW8260B. Torrent completed all volatile organic analyses within the 14-day required time limit for analysis. GGE directed Torrent to submit all analytical data in electronic deliverable format (EDF) in accordance with the State Water Resources Control Board's GeoTracker database system. Tables 1 and 2 present a summary of the analytical results for the current sampling event as well as previous monitoring/sampling events at the Site. Attachment B includes a copy of the Laboratory Certificate of Analysis and associated Chain of Custody Record for this event.

Waste Management

On March 17, 2010, Uni Waste removed the drummed purge and wash/rinse water accumulated from the April 2009 event (@ 26 gallons) and transported the RCRA Hazardous Waste Liquid under Uniform Hazardous Waste Manifest No. 4451786 to the Siemens Water Technology Corp. facility in Vernon, California. On November 2, 2010, Uni Waste removed the drummed purge and wash/rinse water accumulated from the October 2009 event (@ 23 gallons) and current monitoring event (@ 22 gallons) and transported the Non-RCRA Hazardous Waste Liquid under Uniform Hazardous Waste Manifest No.007269297 to the Clearwater Environmental facility in Silver Springs, Nevada. Appendix B includes a copy of the liquid waste manifests.

GeoTracker Electronic Submittal

GGE directed Torrent to submit all analytical data in electronic deliverable format (EDF) via the Internet. GGE uploaded the analytical data as well as the Fluid-Level Monitoring Data (GEO_WELL) to the State Water Resources Control Board's GeoTracker Database System. GGE also uploaded a copy of this report in Portable Data Format (PDF) to the GeoTracker Database. Attachment B includes a copy of each associated GeoTracker Upload Confirmation Form.

RESULTS

Groundwater Monitoring Results

For the October 2010 event, the groundwater elevations calculated relative to the top of well casing in wells MW-1, MW-3 and PW-1 ranged between 185.46 (MW-3) and 185.79 (PW-1) feet, as referenced to Mean Sea Level (MSL).

The groundwater elevation and coordinate data for each monitoring event was entered into the EPA On-Line Tools for Site Assessment Calculation – Hydraulic Gradient. This tool calculates gradient by a least-squares fitting of the data to a plane and used to calculate the approximate groundwater hydraulic gradient and flow direction across the Site. Figure 3 titled *Groundwater Data Diagram* depicts the groundwater flow direction for the October 2010 monitoring event. Figure 3 includes a rose diagram presenting the historical groundwater flow direction and hydraulic gradient across the Site as calculated from groundwater elevations from three wells MW-1, MW-3, and PW-1 since April 2005. The EPA On-Line Tools for Site Assessment Calculation sheet for this event is included in Attachment B.

During the October 2010 monitoring event, the groundwater flow direction beneath the Site was estimated at South 8° West (188 °) under a hydraulic gradient of approximately 0.004 ft/ft. The groundwater flow direction for the October 2010 event is consistent with historical data for the Site with general flow direction towards the south. However, groundwater elevations measured in Gettler-Ryan wells on October 14, 2010, were again inconsistent with those measured for the subject wells, showing groundwater elevations approximately 0.4 to 2 feet lower than that reported in onsite well MW-1.

Results of Groundwater Sampling and Laboratory Analysis

Elevated concentrations of TPH as gasoline ranging between 860 µg/l in well PW-1 and 24000 µg/l in well MW-1 were measured in groundwater samples collected during the October 2010 event. Benzene concentrations ranged between 8.8 µg/l in well PW-1 and 8100 µg/l in well MW-1 during the October 2010 event. The TPH as gasoline and benzene concentrations continue to exceed applicable groundwater ESL values. Figure 4 titled *TPH Gasoline in Groundwater* presents an isoconcentration map for TPH as gasoline in groundwater for the October 2010 event. Table 1 presents a summary of the historical petroleum hydrocarbon analysis results for these events. The laboratory analytical report provided for each event is included in Attachment B.

MTBE was detected at a concentration of 220 and 35 µg/l, respectively, in monitoring wells MW-1 and MW-2 only, exceeding the applicable ESL value (5 µg/l). Since October 2009, MTBE concentrations have been insignificant or below lab detection limits in wells MW-2, MW-3 and PW-1. Fuel oxygenates were again not detected in the groundwater samples collected in wells MW-1 to MW-3 & PW-1 during the October 2010 event, except in MW-1, which contained 130 µg/l tert-Butanol.

PCE was detected in the groundwater sample collected in well PW-1 at a concentration of 35 µg/l exceeding its applicable ESL value of 5 µg/l. The concentration of PCE in well PW-1 continues to fluctuate ranging between 25 µg/l in October 2005 to 120 µg/l in April 2009. Cis-1,2-DCE was measured in well PW-1 at a concentration of 61 µg/l, the highest concentration detected since April 2005. Table 2 presents a summary of the historical groundwater VOC analysis results and the complete VOC laboratory report for well PW-1 is included in Attachment B.

CONCLUSIONS / RECOMMENDATIONS

Due to the elevated concentrations of TPH-G and Benzene remaining in monitor wells MW-1 to MW-3 and PW-1, GGE, as per our December 2009 Groundwater Monitoring Report, recommends continuing the joint groundwater monitoring and sampling program with Gettler-Ryan on a semi-annual basis. Again, sampling should be conducted during the 2nd & 4th Quarters, in which historical groundwater contaminant concentrations in MW-1 to MW-3 have generally been the highest, and to remain consistent with Gettler-Ryan's semi-annual monitoring schedule at 5940 College Avenue. The next event is tentatively scheduled at the Site in April 2011.

Groundwater samples will continue to be analyzed for TPH-G, BTEX and MTBE by EPA Method 8260B. Fuel Oxygenate concentrations have remained non-detectable and/or insignificant and in our opinion can be removed from the list of sample analytes for each well. Additionally, GGE recommends continuing analysis of the groundwater sample from PW-1 for VOCs (full list) by EPA Method 8260B to further monitor the concentrations of PCE in groundwater in the vicinity of the well.

Following ACHCSA's review of GGTR's *October 29, 2010 Work Plan Addendum for Soil Gas Sampling*, GGE recommends implementation of the approved work plan activities.

REPORT DISTRIBUTION

This report and future correspondence associated with GGE Project 2014 will be submitted to:

Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Attention: Ms. Barbara Jakub (1 Electronic Copy via ACHCSA FTP Site)

Dr. Brian R. Sheaff, D.D.S.
1945 Parkside Drive
Concord, CA 94519

(1 Copy; Bound)

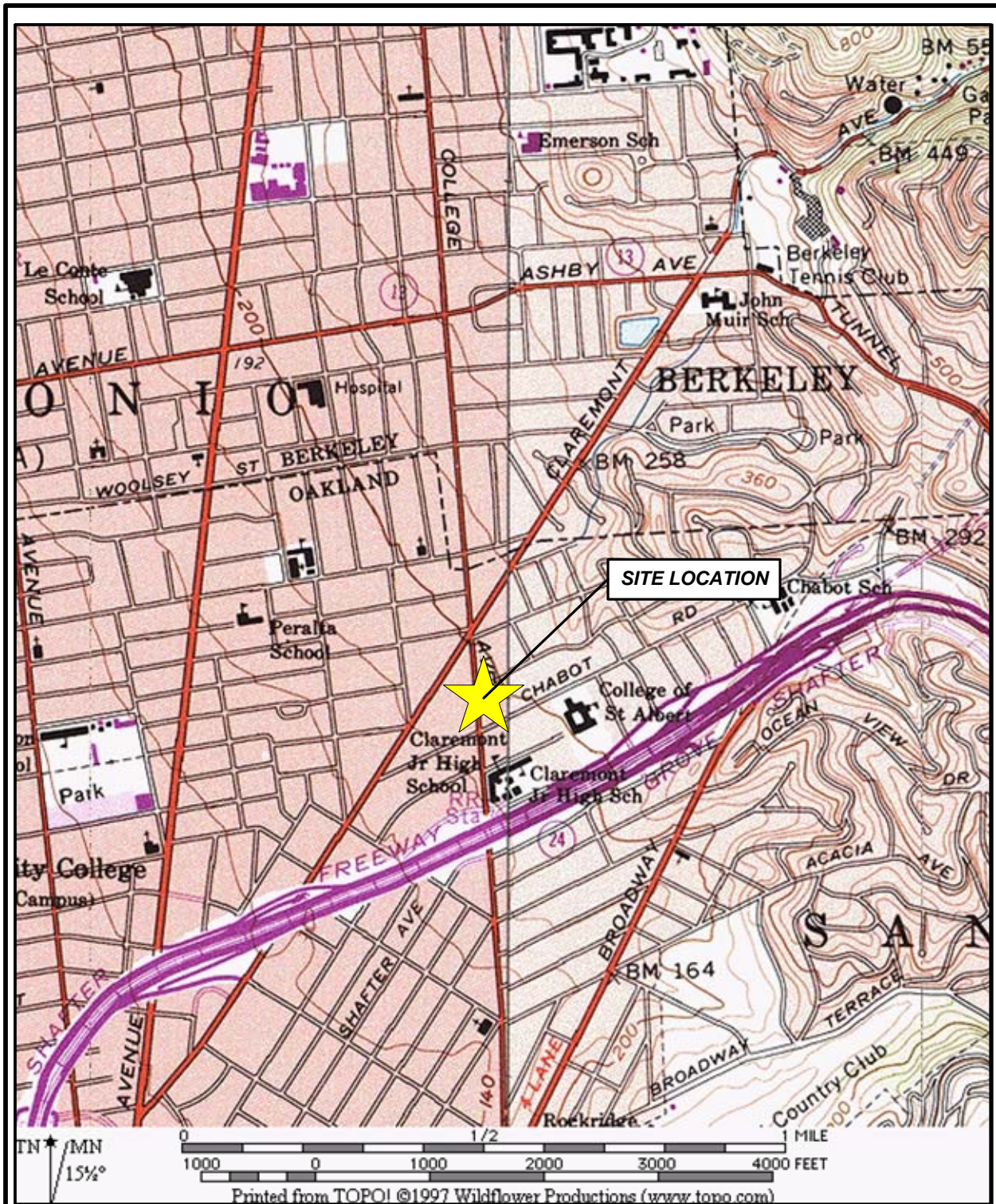
LIMITATIONS

It should be understood that all environmental assessments are inherently limited in that conclusions are drawn and recommendations developed from information obtained from limited research and visual observations. Subsurface conditions change significantly with distance and time and may differ from the conditions implied by subsurface investigation. It must be noted that no investigation can absolutely rule out the existence of any hazardous materials at a given site. Existing hazardous materials and contaminants can escape detection using these methods. The work performed in conjunction with this assessment and the data developed are intended as a description of available information at the dates and location given.

GGE's professional services have been performed, with findings obtained and recommendations prepared in accordance with customary principles and practices in the field of environmental science, at the time of the assessment. This warranty is in lieu of all other warranties either expressed or implied. GGE is not responsible for the accuracy of information reported by others or the independent conclusions, opinions or recommendations made by others based on the field exploration presented in this report. The findings contained in this report are based upon information contained in previous reports of corrective action activities performed at the subject property and based upon site conditions, as they existed at the time of the investigation, and are subject to change. The scope of services conducted in execution of this phase of investigation may not be appropriate to satisfy the needs of other users and any use or reuse of this document and any of its information presented herein is at the sole risk of said user. No other party may rely on this report for any other purpose.

Golden Gate Environmental, Inc.





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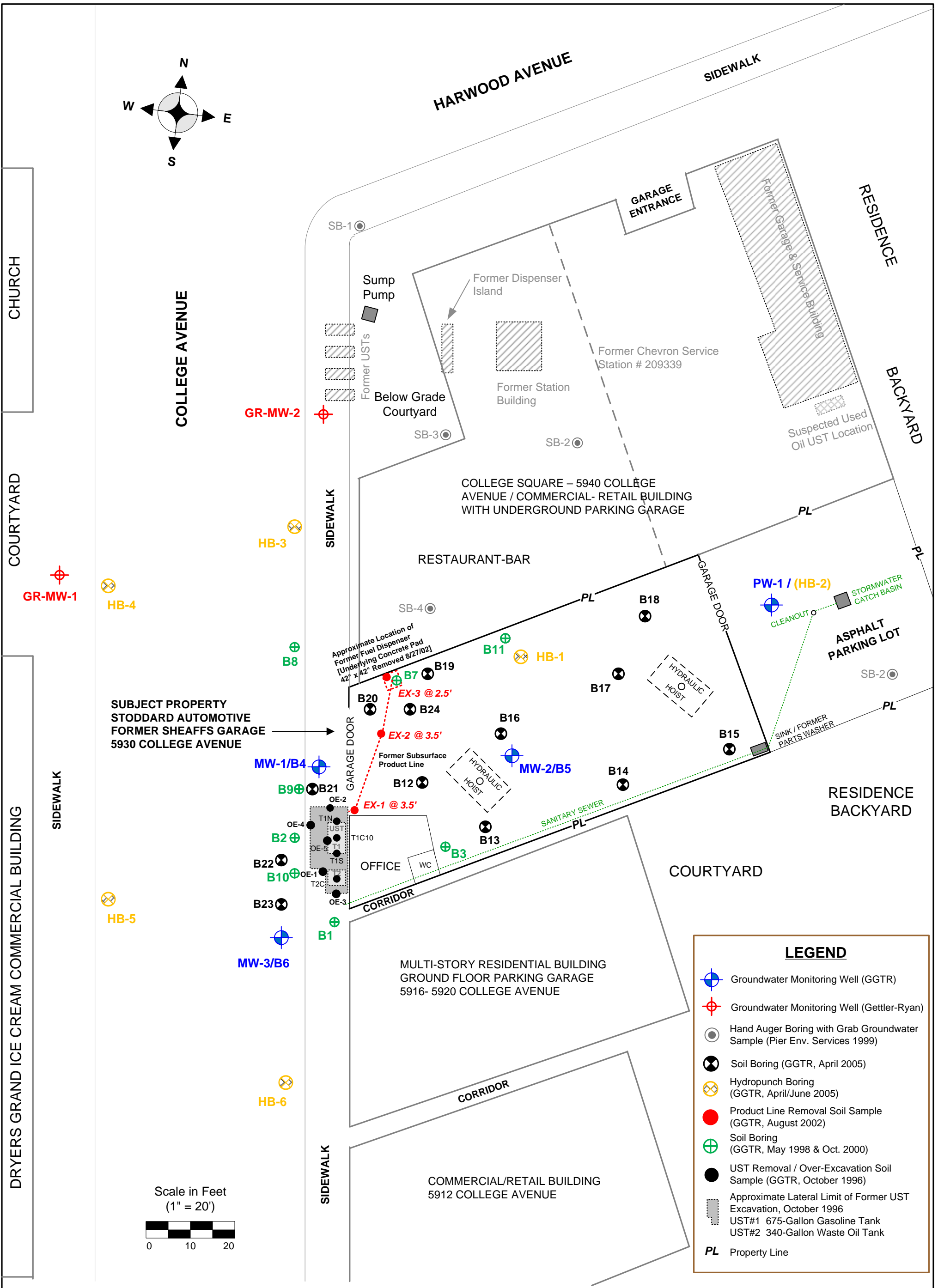
SITE LOCATION MAP
 Sheaff's Garage
 5930 College Avenue
 Oakland, CA 94618

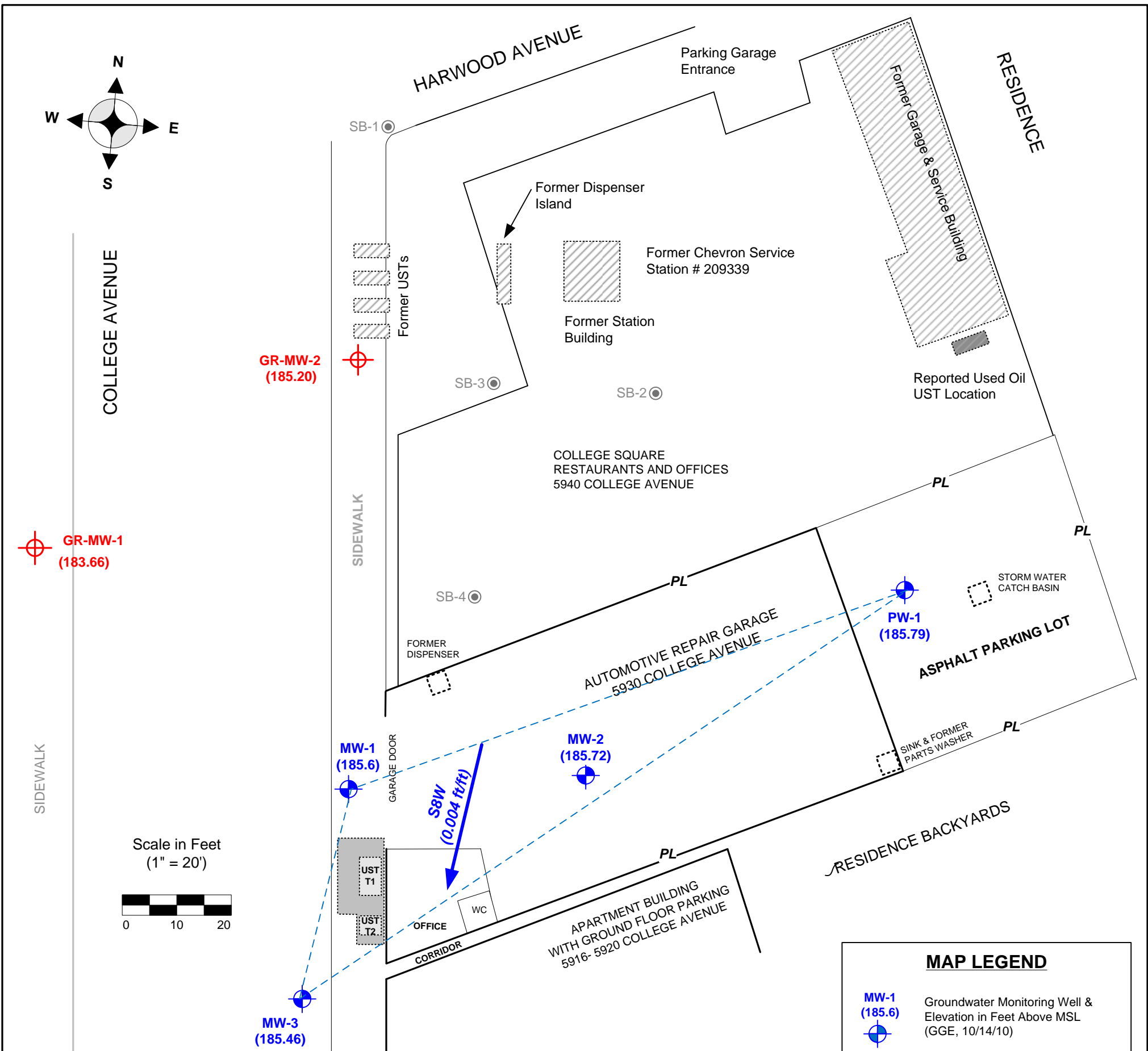
GGE Project No. 2014

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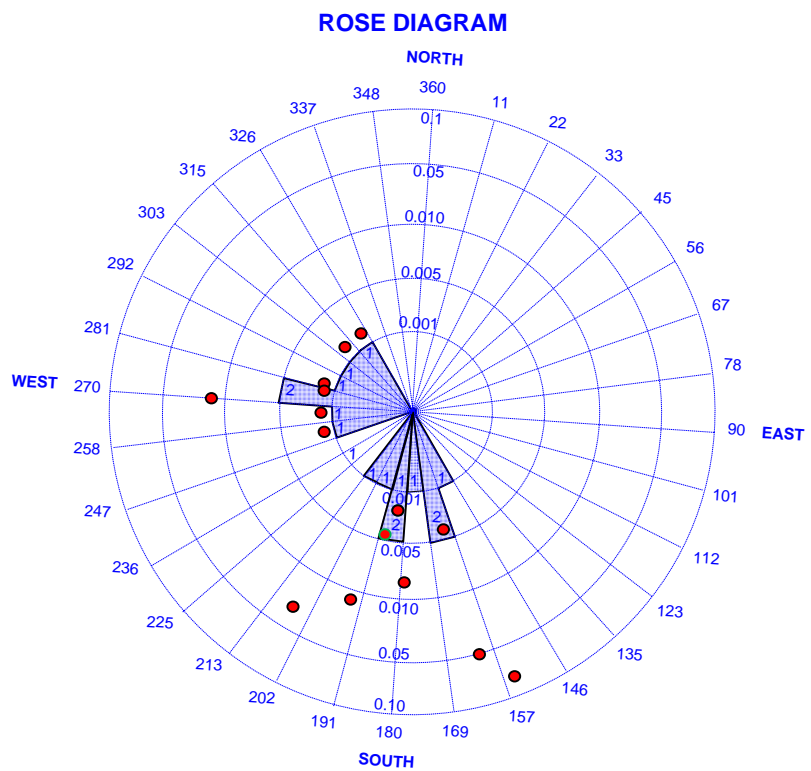
January 2009

Figure 1





Date	Groundwater Flow Direction / Hydraulic Gradient (ft/ft)
Wells MW-1, MW-3 & PW-1: ●	
4/14/05	161.3@0.05
7/26/05	282.5@0.002
10/14/05	309.9@0.002
1/13/06	194.8@0.016
04/14/06	208.5@0.026
10/26/06	249.9@0.002
01/30/07	325@0.002
04/13/07	265.9@0.002
07/24/07	281.8@0.002
4/21/08	155.2@0.072
7/22/08	270.4@0.012
10/21/08	159.5@ 0.004
1/19/09	184 @ 0.0017
10/27/09	179 @ 0.008
10/14/10	188 @ 0.004

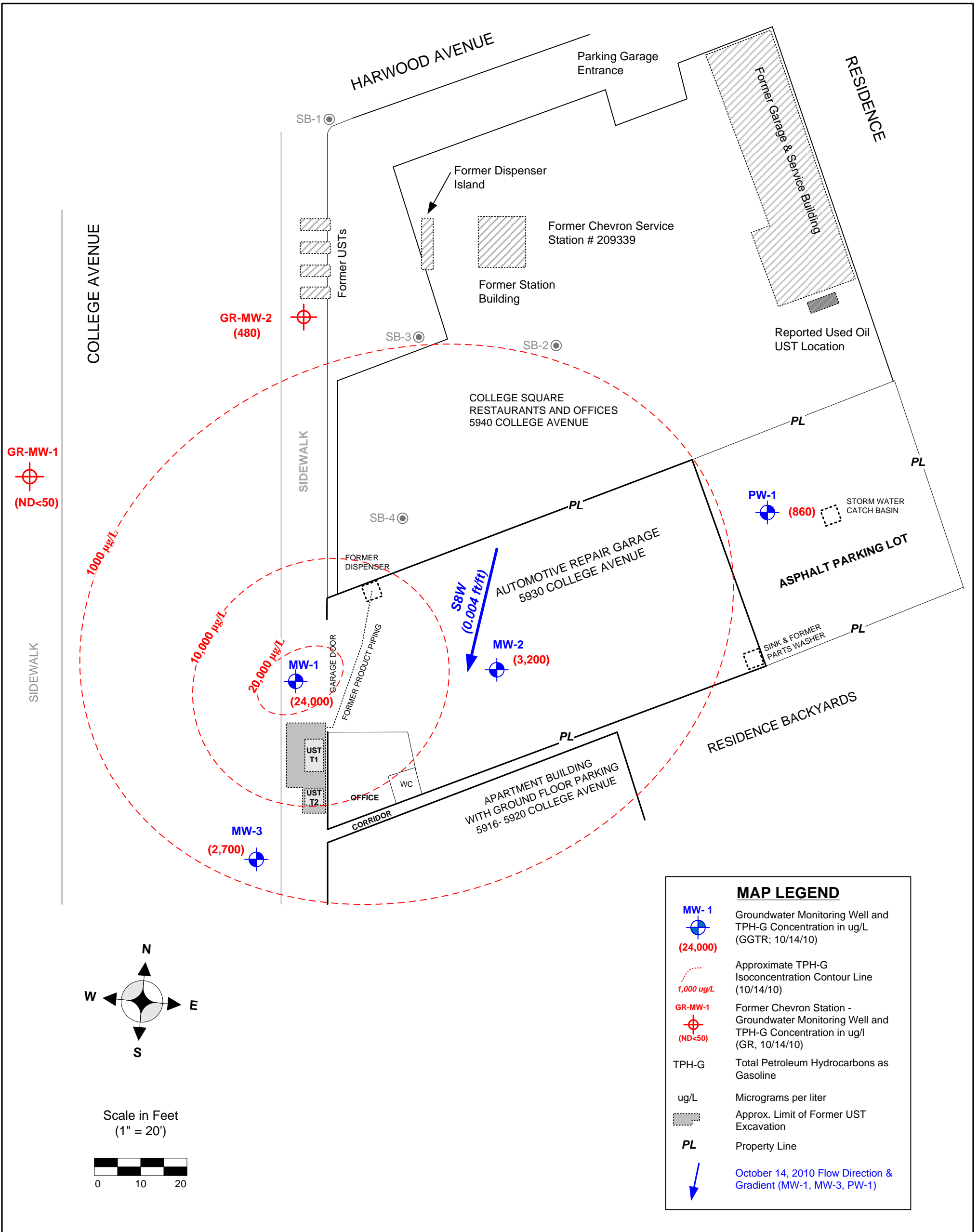


Rose diagram showing historic flow direction & gradient. Circles show recent data from three wells MW-1, MW-3 & PW-1 since April 14, 2005. Note non-linear scale for gradient to accommodate large variation in data. Bar graph shows number of values within each interval of flow direction for recent 2005-2009 data.

MAP LEGEND

- MW-1 (185.6)** Groundwater Monitoring Well & Elevation in Feet Above MSL (GGE, 10/14/10)
- GR-MW-1 (183.66)** Groundwater Monitoring Well & Elevation in Feet Above MSL (Gettler-Ryan, 10/14/10)
- S_{8W} (0.004 ft/ft)** Approximate Groundwater Flow Direction and Hydraulic Gradient (10/14/10)
- ug/L Micrograms per liter
- Approx. Limit of Former UST Excavation
- PL** Property Line

<p>GOLDEN GATE ENVIRONMENTAL, INC. 3730 Mission Street, San Francisco, CA 94110 Phone (415) 970-9088 Fax (415) 970-9089</p>	<p>GROUNDWATER DATA DIAGRAM October 2010 Sheaffs Service Garage 5930 College Avenue, Oakland, CA 94618</p>
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TPH GASOLINE IN GROUNDWATER
October 2010
 Sheaffs Service Garage
 5930 College Avenue, Oakland, CA 94618

GGE Project No. 2014

October 2010

Figure 4

TABLE 1
Historical Groundwater Levels & Hydrocarbon Analytical Results
5930 College Avenue, Oakland, CA

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	Product Odor/ Sheen	TPH-G (ug/L)	MTBE (ug/L)	BTEX (ug/L)	
MW-1	6/1/98	50.00 *	4.81	45.19	slight sheen	160000	1900	28000 / 21000 / 3800 / 21000	
	9/10/98	50.00 *	7.5	42.5	Odor	290000	440	<50 / 25000 / 7100 / 32000	
	10/7/99	50.00 *	10.04	39.96	Odor	85000	1100	20000 / 13000 / 3800 / 17000	
	1/26/00	50.00 *	8.26	41.74	slight sheen	130000	470	25000 / 18000 / 4500 / 22000	
	10/25/00	50.00 *	10.1	39.9	Odor	130000	1300	23000 / 12000 / 3900 / 18000	
	2/2/01	50.00 *	9.61	40.39	Odor	128000	780	19000 / 11000 / 3800 / 18000	
	4/25/01	195.9	7.39	188.51	Odor	120000	900	21000 / 13000 / 390 / 18000	
	7/10/01		9.72	186.18	Odor	79000	660	15000 / 7800 / 3000 / 15000	
	10/8/01		10.88	185.02	Odor/sheen	112000	374	25300 / 11800 / 4280 / 20600	
	1/7/02		4.34	191.56	Odor	96100	596	21100 / 13500 / 4160 / 21900	
	4/8/02		6.84	189.06	slight odor	111000	679	21200 / 13400 / 4230 / 21000	
	7/9/02		9.4	186.5	slight odor	110000	570	20300 / 13300 / 4060 / 19800	
	10/23/02		11.04	184.86	None	54100	1010 (1080)**	10800 / 3870 / 2320 / 9440	
	10/15/03		10.8	185.1	None	90700	724	17800 / 4740 / 3150 / 13900	
	2/2/04		7.35	188.55	None	108000	194	14200 / 7420 / 3450 / 19800	
	4/23/04		6.83	189.07	slight odor	49200	114	7910 / 1480 / 1810 / 10100	
	7/19/04		8.95	186.95	Odor	63900	303	7260 / 2270 / 2510 / 10100	
	10/22/04		10.15	185.75	None	80700	493 (296)**	13900 / 1670 / 3550 / 15200	
	1/21/05		5.45	190.45	Odor	278000	271 (174)**	14700 / 25300 / 10800 / 73500	
	4/14/05		5.3	190.6	Odor /sheen	116000	366 (410)**	15100 / 7080 / 4220 / 20700	
	7/26/05		7.6	188.3	Odor	82000	ND<250	12000 / 4500 / 3300 / 14000	
	10/14/05		9.58	186.32	Odor/sheen	64000	ND<250	13000 / 5700 / 3400 / 16000	
	1/13/06		4.6	191.3	Odor/sheen	49000	ND<250	12000 / 5300 / 3500 / 17000	
	4/14/06		3.08	192.82	Odor	51000	270	14000 / 5300 / 3500 / 17000	
	10/26/06		9.22	186.68	Odor	34000	ND<250	12000 / 1600 / 3100 / 8600	
	1/30/07		9.6	186.3	Odor	39000	ND<200	10000 / 2200 / 2900 / 10000	
	4/13/07		9.24	186.66	NM	52000	150	9100 / 2600 / 3100 / 11000	
	7/24/07		10.67	185.23	None	46000	240	10000 / 1200 / 3500 / 6200	
	4/21/08		7.24	188.66	None	50000	ND<100	7800 / 1500 / 3000 / 12000	
	7/22/08		9.71	186.19	Odor	60000	470 ¹	8100 / 1500 / 2700 / 9800	
10/21/08	11.63		184.27	Odor	15000	110	4900 / 430 / 1900 / 2260		
1/19/09	10.91		184.99	Odor/Sheen	33000	143	8830/837/2160/3880		
4/27/09	7.7		188.2	Odor	75000	53	8500/2100/2300/11000		
10/27/09	9.34		186.56	Odor	61000	75	8300/1500/2600/7900		
	10/14/10			10.3	185.6	Clear/Odor	24000²	220	8100/820/2200/4400
CRWQCB ESL - Nov 2007						100	5	1.0 / 40 / 30 / 20	

Table Notes Following

TABLE 1 (Cont.)
Historical Groundwater Levels & Hydrocarbon Analytical Results
5930 College Avenue, Oakland, CA

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	Product Odor/ Sheen	TPH-G (ug/L)	MTBE (ug/L)	BTEX (ug/L)
MW-2	10/7/99	51.42*	11.49	39.93	slight/odor	18000	490	3000 / 1700 / 1000 / 3900
	1/26/00	51.42*	7.85	43.57	None	42000	560	9300 / 2200 / 2300 / 7700
	10/25/00	51.42*	11.57	39.85	slight/odor	31000	500	5500 / 370 / 1700 / 2600
	2/2/01	51.42*	10.77	40.65	Odor	36000	400	4300 / 530 / 1800 / 4500
	4/25/01	197.28	8.52	188.76	Odor	56000	460	6700 / 1700 / 2600 / 8200
	7/10/01		11.05	186.23	Odor	39000	180	6200 / 730 / 2300 / 6100
	10/8/01		12.79	184.49	Odor/sheen	40700	6460	6310 / 399 / 2100 / 5320
	1/7/02		4.92	192.36	Odor	59600	366**	10300 / 3250 / 4180 / 14400
	4/8/02		8.4	188.88	slight odor	66700	583**	10200 / 2670 / 3840 / 13200
	7/9/02		10.55	186.73	slight odor	37100	303 (298)**	5340 / 890 / 2110 / 6920
	10/23/02		13.85	183.43	None	13300	322 (360)**	2420 / 216 / 922 / 1470
	10/15/03		12.38	184.9	None	11300	264 (322)**	2660 / 51 / 1180 / 1220
	2/2/04		8.8	188.48	None	21700	168 (200)**	2130 / 51 / 1030 / 2060
	4/23/04		8.4	188.88	Slight odor	30400	112 (203)**	3570 / 322 / 1620 / 4140
	7/19/04		10.3	186.98	Odor	28300	283 (373)**	2540 / 239 / 1320 / 2300
	10/22/04		10.25	187.03	Mod odor	13500	273 (229)**	1790 / 54 / 892 / 915
	1/21/05		6.65	190.63	Mod odor	278000	161 (163)**	5980 / 1030 / 2890 / 9070
	4/14/05		8.7	188.58	None	46100	155 (150)**	5170 / 787 / 2530 / 6010
	7/26/05		8.95	188.33	Mod odor	41000	ND (ND)**	5600 / 550 / 2600 / 4600
	10/14/05		10.92	186.36	Odor/sheen	13000	130	2900 / 100 / 1300 / 1200
	1/13/06		5.48	191.8	Odor	20000	ND<100	4900 / 490 / 2400 / 4200
	4/14/06		3.61	193.67	Odor	21000	ND<100	4000 / 740 / 2300 / 5100
	10/26/06		10.58	186.7	Odor	8200	68	1400 / 51 / 840 / 500
	1/30/07		10.98	186.3	Odor	17000	62	3200 / 150 / 2200 / 1800
	4/13/07		10.54	186.74	NM	19000	57	2000 / 85 / 1300 / 1100
	7/24/07		12.04	185.24	None	10000	84	1300 / 41 / 710 / 270
	4/21/08		8.01	189.27	None	17000	48	1800 / 100 / 1400 / 1300
	7/22/08		11.12	186.16	None	16000	100 ¹	1900 / 98 / 1600 / 741
	10/21/08		13.11	184.17	Odor/sheen	4900	65	700 / 20 / 370 / 52
	1/19/09		12.31	184.97	Odor	2500	90	167/8.49/114/50.3
4/27/09	9.01		188.27	Odor/sheen	21000	ND<0.5	1700/130/1100/1800	
10/27/09	10.52		186.76	Odor	7000	ND<0.5***	510/19/330/160	
10/14/2010	11.56		185.72	None	3200²	35	460/16/230/110	
CRWQCB ESL - Nov 2007						100	5	1.0 / 40 / 30 / 20

Table Notes Following

TABLE 1 (Cont.)
Historical Groundwater Levels & Hydrocarbon Analytical Results
5930 College Avenue, Oakland, CA

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	Product Odor/ Sheen	TPH-G (ug/L)	MTBE (ug/L)	BTEX (ug/L)
MW-3	10/7/99	49.39*	9.67	39.72	None	6600	390	310 / 110 / 430 / 1000
	1/26/00	49.39*	5.4	43.99	None	3300	40	110 / 8 / 100 / 32
	10/25/00	49.39*	9.24	40.15	Slight odor	4500	ND	100 / 2 / 120 / 130
	2/2/01	49.39*	8.73	40.66	Slight odor	2900	35	35 / 3 / 160 / 298
	4/25/01	195.22	6.61	188.61	Slight odor	8400	56	260 / 33 / 290 / 510
	7/10/01		8.85	186.37	Slight odor	12000	35	39 / 10 / 690 / 1600
	10/8/01		9.75	185.47	Odor/sheen	4913	52	108 / 4 / 99 / 133
	1/7/02		4.25	190.97	Odor/sheen	7260	81.7**	723 / 138 / 492 / 887
	4/8/02		6.33	188.89	Odor	11700	ND**	540 / 108 / 706 / 1710
	7/9/02		8.56	186.66	Odor	2320	28.3 (20)**	37.1 / 4.7 / 98.5 / 187
	10/23/02		10.02	185.2	Odor/sheen	2830	ND (ND)**	46.8 / 4.7 / 43.6 / 65.5
	10/15/03		9.8	185.42	Odor/sheen	3040	ND (ND)**	91.3 / 8.4 / 69.9 / 148
	2/2/04		6.85	188.37	Odor/sheen	5140	ND (ND)**	126 / 8.7 / 134 / 238
	4/23/04		6.17	189.05	None	7210	ND (ND)**	227 / 39.5 / 448 / 879
	7/19/04		8.25	186.97	Slight odor	9860	ND (ND)**	20.4 / 3.2 / 30.6 / 117
	10/22/04		9.25	185.97	None	7420	96 (21)**	152 / 12.8 / 267 / 480
	1/21/05		5.22	190	Slight odor	2420	ND (ND)**	111 / 11.4 / 139 / 265
	4/14/05		6.64	188.58	Odor/sheen	5130	54 (41.4)**	357 / 19.4 / 287 / 510
	7/26/05		6.9	188.32	None	9800	ND (21)**	200 / 23 / 220 / 360
	10/14/05		8.83	186.39	Odor/sheen	6100	ND	76 / 19 / 170 / 350
	1/13/06		4.61	190.61	Odor	3900	24	380 / 17 / 230 / 300
	4/14/06		3.41	191.81	Odor	5000	69	760 / 44 / 230 / 190
	10/26/06		8.57	186.65	Odor	3100	17	120 / 9.8 / 55 / 54
	1/30/07		8.83	186.39	Odor	4500	ND<10	90 / 7.6 / 75 / 44
	4/13/07		8.57	186.65	NM	2800	ND<5	55 / 4.9 / 19 / 6.1
	7/24/07		9.98	185.24	None	4800	ND<5	140 / 8.3 / 66 / 22
	4/21/08		9.3	185.92	None	4300	ND<5	200 / 11 / 30 / 14
	7/22/08		9.05	186.17	None	2400	53 ¹	140 / 13 / 26 / 18.5
	10/21/08		11.12	184.1	Slight Odor	2900	2.2	170 / 9.2 / 99 / 25.8
	1/19/09		10.29	184.93	Odor	3600	ND<0.5	148/6.73/24.5/22.1
4/27/09	7.15		188.07	Odor/sheen	5800	8.8	370/12/82/84	
10/27/09	8.96		186.26	Odor	4900 ²	ND<0.5***	130/8.5/89/130	
10/14/2010	9.76		185.46	None	2700²	ND<4.4	270/11/290/399.2	
CRWQCB ESL - Nov 2007						100	5	1.0 / 40 / 30 / 20

Table Notes Following

TABLE 1 (Cont.)
Historical Groundwater Levels & Hydrocarbon Analytical Results
5930 College Avenue, Oakland, CA

Well ID	Sample Date	Casing Elevation (ft, MSL)	Depth to GW (ft, TOC)	Water Elevation (ft, MSL)	Product Odor/ Sheen	TPH-G (ug/L)	MTBE (ug/L)	BTEX (ug/L)
PW-1	4/14/05	197.17	6.4	190.77	None	3360	ND (ND**)	62.8 / 6.7 / 79.5 / 317
	7/26/05		8.63	188.54	None	1300	ND (ND**)	22 / ND / 48 / 110
	10/14/05		10.71	186.46	None	4300	ND	93 / 1.2 / 100 / 140
	1/13/06		4.87	192.3	None	450	ND<2.0	10 / ND / 37 / 72
	4/14/06		2.27	194.9	Odor	120	ND<2.0	2.3 / ND<1.0 / 3.5 / 9.3
	10/26/06		10.3	186.87	Odor	2800	ND<10	61 / ND<5.0 / 130 / 34
	1/30/07		10.8	186.37	Odor	1200	ND<2	22 / ND<1.0 / 100 / 200
	4/13/07		10.31	186.86	NM	510	ND<1	6 / ND<0.5 / 30 / 56
	7/24/07		11.81	185.36	None	3400	ND<5	63 / ND<2.5 / 180 / 5.6
	4/21/08		9.08	188.09	None	300	ND<1	3 / ND<0.5 / 16 / 26
	7/22/08		9.83	187.34	None	710	3.1 ¹	9.3 / 1.2 ¹ / 49 / 67.86
	10/21/08		12.9	184.27	None	1500 ²	1	20 / ND<0.5 / 57 / 20
	1/19/09		12.11	185.06	Odor/sheen	1100 ²	ND<0.5	12.3/ND<0.5/30.8/9.20
	4/27/2009		8.69	188.48	None	360 ³	ND<0.5	2.7/ND<0.5/12/18
	10/27/2009		10.32	186.85	None	1100 ²	ND<0.5	12/ND<0.5/36/34
10/14/2010	11.38	185.79	None	860³	ND<0.5	8.8/55/44/44		
CRWQCB ESL - Nov 2007						100	5	1.0 / 40 / 30 / 20

NOTES:

ft, MSL = feet Above Mean Sea Level

TOC = Top of Well Casing

GW = Depth to Groundwater in feet Below TOC

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl Tertiary Butyl Ether

BTEX = Benzene / Toluene / Ethylbenzene / Total Xylenes

ug/L = micrograms per liter

ND = Not detected above laboratory reporting limit

¹ = Presence confirmed, but Relative Percentage Difference (RPD) between columns exceeds 40%

² = Sample exhibit chromatographic pattern that does not resemble standard; See laboratory report for additional information

³ = Although TPH-gas compounds are present, value is elevated due to discrete peak (PCE) within C5-C12 range quantified as gasoline

* = Arbitrary datum point with assumed elevation of 50 ft used prior to MSL survey on 4/ 25/01

** = Concentration confirmed by EPA Method 8260

** = Sample also analyzed for other Fuel oxygenates (EPA Method 8260); All results ND (See Lab Report)

CRWQCB/ESL = California Regional Water Quality Control Board's Interim Final - November 2007, Tier 1 Environmental Screening Level for groundwater that **IS** a potential source of drinking water

TABLE 2
Historical Groundwater VOC Analytical Results in PW-1
5930 College Avenue, Oakland, CA

Well ID	Sample Date	IPB (ug/L)	n-PB (ug/L)	1,3,5-TMB (ug/L)	1,2,4-TMB (ug/L)	Sec-BB (ug/L)	n-BB (ug/L)	Naphthalene (ug/L)	TCE (ug/L)	MC (ug/L)	cis-1,2-DCE (ug/L)	Vinyl Chloride (ug/L)	PCE (ug/L)
PW-1	4/14/05	11	22	110	100	ND,10	ND<10	43	3.3	ND<25	12	ND<0.5	84.9
	7/26/05	7.3	17	37	100	ND<10	ND<10	43	ND<1	ND<10	7	ND<1	48
	10/14/05	28	72	67	120	12	17	43	4.1	ND<40	29	ND<1	25
	1/13/06	ND<20	ND<10	ND<10	37	ND<10	ND<10	ND<10	1.4	ND<40	5	ND<1	95
	4/14/06	ND<2	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	1.1	ND<40	2.8	ND<1	68
	10/26/06	ND<10	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	6.2	ND<200	32	ND<5.0	26
	1/30/07	ND<2	23	31	120	ND<10	ND<10	18	ND<1	ND<40	11	ND<1	29
	4/13/07	2.4	6.1	7	30	ND<5	ND<5	6.8	0.84	ND<20	4.7	ND<0.5	64
	7/24/07	ND<5.0	60	ND<25	ND<25	ND<25	ND<25	ND<25	ND<2.5	ND<100	58	ND<2.5	50
	4/21/08	1.1	ND<5	ND<5	15	ND<5	ND<5	ND<5	0.88	ND<20	3.7	ND<0.5	91
	7/22/08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/21/08	17	14	5	15	9.4	14	5.1	6.2	ND<10	56	0.6	44
	4/27/09	1.2	3.3	3.4	16	ND<0.5	ND<0.5	ND<1.0	1.4	ND<5.0	4	ND<0.5	120
10/27/09	6	4.8	ND<0.5	15	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<5.0	35	ND<0.5	78	
10/14/10	9.8	15	12	44	4.4	ND<0.5	4	5	ND<5.0	61	ND<0.5	35	
CRWQCB ESL	NC	NC	NC	NC	NC	NC	NC	17	5	5	6	0.5	5

NOTES:

VOC = Volatile Organic Compounds

IPB = Isopropylbenzene

n-PB = n-Propylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

1,2,4-TMB = 1,2,4-Trimethylbenzene

sec-BB = sec-Butylbenzene

n-BB = n-Butylbenzene

TCE = Trichloroethene

MC = Methylene Chloride

cis-1,2-DCE = cis-1,2-Dichloroethene

PCE = Tetrachloroethene

ug/l = micrograms per liter

ND = Not detected above laboratory reporting limit

NC = No Criteria Listed

NA = Not Analyzed

CRWQCB/ESL = California Regional Water Quality Control Board's Interim Final - November 2007, Tier 1 Environmental Screening Level
for groundwater that **IS** a potential source of drinking water

GROUNDWATER MONITORING REPORT
4th Quarter 2009

Sheaff's Garage
5930 College Avenue
Oakland, CA 94618

ACHCSA Fuel Leak Case No. RO0000377

ATTACHMENT A

Fluid-Level Monitoring Data Form
Well Purging/Sampling Data Sheets

Golden Gate Environmental, Inc.

FLUID-LEVEL MONITORING DATA

Project No: 2014 Date: 10/14/10

Project/Site Location: 5930 Collogg

Technician: J Carver Instrument: KECK

Boring/ Well ID	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Comments
MW1	10.30	ND	ND	17.00	
MW-2	11.56	ND	ND	20.00	
MW-3	9.76	ND	ND	20.00	
PW-1	11.38	ND	ND	20.00	

Golden Gate Environmental, Inc.

Well Purging Sampling Data Form

Project #: 2014

Date: 10/14/10

Project/Site Address: 5930 College

Technician/Sampler: J Curver

Casing Diameter (Inches)	0.75	2	4	6	8	12
Casing Volume (Gallons/Linear Foot)	0.02	0.17	0.66	1.5	2.6	5.81

Well No. MW1

- A. Total Well Depth 14.00 Ft. (TOC)
- B. Depth to Groundwater (DTGW) 10.30 Ft. (TOC)
- C. Water Height (A-B) 3.70 Ft.
- D. Well Casing Diameter 2" In.
- E. Casing Volume Constant 0.17 Gallons/Ft.
- F. One (1) Casing Volume (Cx) 0.63 Gallons
- G. Three (3) Casing Volumes (CxEx3) 1.9 Gallons
- H. 80% Recharge Level [A-(0.80xC)] 11.04 Ft.

4
 3.7
 .17

 3.53
 3.7

 6.23

Purge Event

Start Time: 12:15 DTGW: 10:25
 Finish Time: 12:51 DTGW: 12:36
 Purge Volume: 2.09
 Purge Intake Depth: 13.50
 Purge Rate (Gals./Min. ML/Min.): 0.03 gpm
 Purge Water Appearance: clear odor

Recharge Event

Start Time: 12:51 DTGW: 12:36
 Finish Time: 1:30 DTGW: 11:52
 Recharge Rate (Ft./Min.): 0.54' / min

Water Quality Parameters:

Casing Volume (Gallons)

	0	0.5g	1g	1.5g	2g	2.5	3
Time	<u>12:15</u>	<u>12:23</u>	<u>12:29</u>	<u>12:41</u>	<u>12:51</u>		
DTGW	<u>10:25</u>	<u>11:07</u>	<u>11:25</u>	<u>11:76</u>	<u>12:36</u>		
pH	<u>7.15</u>	<u>7.25</u>	<u>7.07</u>	<u>7.15</u>	<u>7.17</u>		
T (°C)	<u>20.3</u>	<u>19.6</u>	<u>19.5</u>	<u>19.7</u>	<u>19.7</u>		
Cond.	<u>60.7</u>	<u>60.5</u>	<u>54.9</u>	<u>54.7</u>	<u>54.4</u>		
DO (mg/l)							
DO (%)							
ORP (mV)							

Summary Data:

Total Gallons Purged: 2.0
 Purge Rate (Gals./Min.): 0.03
 Purge Device: Perstaltic
 Sampling Device: Perstaltic
 Sample Intake Depth: 12.0'
 Sample Collection Time: 13:05
 Sample Appearance: Clear odor

Notes:

Drums Remaining Onsite: _____ Total Drum Volume (Gals.): _____

Golden Gate Environmental, Inc.

Well Purging Sampling Data Form

Project #: 2014

Date: 10/14/10

Project/Site Address: 5930 College

Technician/Sampler: J Carver

Casing Diameter (Inches)	0.75	2	4	6	8	12
Casing Volume (Gallons/Linear Foot)	0.02	0.17	0.66	1.5	2.6	5.81

Well No. MW2

- A. Total Well Depth 20.00 Ft. (TOC)
- B. Depth to Groundwater (DTGW) 11.56 Ft. (TOC)
- C. Water Height (A-B) 8.44 Ft.
- D. Well Casing Diameter 2" In.
- E. Casing Volume Constant 0.17 Gallons/Ft.
- F. One (1) Casing Volume (Cx E) 1.43 Gallons
- G. Three (3) Casing Volumes (Cx Ex3) 4.3 Gallons
- H. 80% Recharge Level [A-(0.80xC)] 13.25 Ft.
6.75

Purge Event

Start Time: 0905 DTGW: 11.53
 Finish Time: 0943 DTGW: 18.60
 Purge Volume: 4.30g
 Purge Intake Depth: 18.00
 Purge Rate (Gals./Min. MI./Min.): 0.113 gpm
 Purge Water Appearance: (600 ml/min)

Recharge Event

Start Time: 0943 DTGW: 18.60
 Finish Time: 0953 DTGW: 18.10
 Recharge Rate (Ft./Min.): 0.5 / min

Water Quality Parameters:

1g 2g 3g 4.3 gal
Casing Volume (Gallons)

	0	0.5	1	1.5	2	2.5	3
Time	<u>0905</u>	<u>0914</u>	<u>0921</u>	<u>0929</u>	<u>0943</u>		
DTGW	<u>11.53</u>	<u>12.56</u>	<u>14.98</u>	<u>16.78</u>	<u>18.60</u>		
pH	<u>8.13</u>	<u>7.76</u>	<u>7.67</u>	<u>7.31</u>	<u>7.68</u>		
T (°C)	<u>19.3</u>	<u>18.7</u>	<u>19.7</u>	<u>18.2</u>	<u>18.5</u>		
Cond.	<u>152.9</u>	<u>116.1</u>	<u>96.5</u>	<u>81.8</u>	<u>97.7</u>		
DO (mg/l)							
DO (%)							
ORP (mV)							

Summary Data:

Total Gallons Purged: 4.3
 Purge Rate (Gals./Min.): 0.113
 Purge Device: Perstakic
 Sampling Device: Perstakic
 Sample Intake Depth: 18.0
 Sample Collection Time: 1000
 Sample Appearance: Clr - No odor - No show

Notes:

Drums Remaining Onsite: _____ Total Drum Volume (Gals.): _____

Golden Gate Environmental, Inc.

Well Purging Sampling Data Form

Project #: ~~0207~~ 2014

Date: 10/14/10

Project/Site Address: 5930 College

Technician/Sampler: J Carver

Casing Diameter (Inches)	0.75	2	4	6	8	12
Casing Volume (Gallons/Linear Foot)	0.02	0.17	0.66	1.5	2.6	5.81

Well No. MW-3

- A. Total Well Depth 20.00 Ft. (TOC)
- B. Depth to Groundwater (DTGW) 9.76 Ft. (TOC)
- C. Water Height (A-B) 10.24 Ft.
- D. Well Casing Diameter 2 In.
- E. Casing Volume Constant 0.17 Gallons/Ft.
- F. One (1) Casing Volume (Cx E) 1.74 Gallons
- G. Three (3) Casing Volumes (Cx Ex3) 5.2 Gallons
- H. 80% Recharge Level [A-(0.80xC)] 11.80 Ft.

6.2

Purge Event

Start Time: 1107 DTGW: 9.64
 Finish Time: 1147 DTGW: 14.70
 Purge Volume: 4.0
 Purge Intake Depth: 19.0

Purge Rate (Gals./Min. ML/Min.): 0.10 gpm
 Purge Water Appearance: 500 ml/min. clear, No Sheen, No odor

Recharge Event

Start Time: 1147 DTGW: 14.70
 Finish Time: 1157 DTGW: 14.51
 Recharge Rate (Ft./Min.): 0.019 ft/min

Water Quality Parameters:

Casing Volume (Gallons)

	0	0.5	1	1.5	2	2.5	3
Time	<u>1107</u>	<u>1117</u>	<u>1127</u>	<u>1137</u>	<u>1147</u>		
DTGW	<u>9.64</u>	<u>11.01</u>	<u>12.29</u>	<u>13.29</u>	<u>14.70</u>		
pH	<u>7.58</u>	<u>7.51</u>	<u>7.49</u>	<u>7.40</u>	<u>7.40</u>		
T (°C)	<u>18.7</u>	<u>18.5</u>	<u>18.6</u>	<u>19.6</u>	<u>18.5</u>		
Cond.	<u>55.1</u>	<u>54.5</u>	<u>54.0</u>	<u>53.5</u>	<u>53.8</u>		
DO (mg/l)							
DO (%)							
ORP (mV)							

Summary Data:

Total Gallons Purged: 4.0
 Purge Rate (Gals./Min.): 0.10
 Purge Device: Peristaltic
 Sampling Device: Peristaltic
 Sample Intake Depth: 14.0
 Sample Collection Time: 12:05
 Sample Appearance: clear - No Sheen - No Odor

Notes:

G.W. parameters within limits. Stopped @ 4.0 gal

Drums Remaining Onsite: _____ Total Drum Volume (Gals.): _____

Golden Gate Environmental, Inc.

Well Purging Sampling Data Form

Project #: 2014

Date: 10/14/10

Project/Site Address: 5930 College

Technician/Sampler: J. Carrer

Casing Diameter (Inches)	0.75	2	4	6	8	12
Casing Volume (Gallons/Linear Foot)	0.02	0.17	0.66	1.5	2.6	5.81

Well No. PW-1

- A. Total Well Depth: 20.00 Ft. (TOC)
- B. Depth to Groundwater (DTGW): 11.30 Ft. (TOC)
- C. Water Height (A-B): 9.62 Ft.
- D. Well Casing Diameter: 2 In.
- E. Casing Volume Constant: 0.17 Gallons/Ft.
- F. One (1) Casing Volume (Cx): 1.45 Gallons
- G. Three (3) Casing Volumes (CxEx3): 4.4 Gallons
- H. 80% Recharge Level [A-(0.80xC)]: 13.1 Ft.

Purge Event

Start Time: 1010 DTGW: 11.35
 Finish Time: ~~1053~~ DTGW: 13.50 (dry)
 Purge Volume: 40 gal
 Purge Intake Depth: 20.0 gal
 Purge Rate (Gals./Min. ML/Min.): 0.09 gpm
 Purge Water Appearance: no sheen, no odor - clr becoming muddy

Recharge Event

Start Time: 1053 DTGW: 13.50
 Finish Time: 1312 DTGW: 15.20
 Recharge Rate (Ft./Min.): 4.28' 103'/min

Water Quality Parameters:

1g 2g 3g 4.5g Casing Volume (Gallons)

	0	0.5	1	1.5	2	2.5	3
Time	<u>1010</u>	<u>1018</u>	<u>1027</u>	<u>1037</u>			
DTGW	<u>11.35</u>	<u>12.71</u>	<u>14.31</u>	<u>16.04</u>			
pH	<u>7.82</u>	<u>7.67</u>	<u>7.51</u>	<u>7.27</u>			
T (°C)	<u>18.3</u>	<u>19.2</u>	<u>18.3</u>	<u>18.1</u>			
Cond.	<u>71.9</u>	<u>60.7</u>	<u>50.9</u>	<u>49.1</u>			
DO (mg/l)							
DO (%)							
ORP (mV)							

Summary Data:

Total Gallons Purged: 4.0
 Purge Rate (Gals./Min.): 0.09 gpm
 Purge Device: Perstaltic
 Sampling Device: Perstaltic
 Sample Intake Depth: 14.75
 Sample Collection Time: 1315
 Sample Appearance: muddy - No odor - no sheen

Notes:

went dry @ 13.6' @ 10.53
shut off pump & wait
for recharge

Drums Remaining Onsite: _____ Total Drum Volume (Gals.): _____

GROUNDWATER MONITORING REPORT
4th Quarter 2009

Sheaff's Garage
5930 College Avenue
Oakland, CA 94618

ACHCSA Fuel Leak Case No. RO0000377

ATTACHMENT B

Laboratory Certificate of Analysis
Chain of Custody Record
GeoTracker Upload Confirmation Forms
Waste Disposal Manifests (March & November 2010)
EPA On-Line Tools for Site Assessment Calculation Sheet
CRA: Groundwater Monitoring Data and Analytical Results Tables 1-3
CRA: Field Measurements Table 4



Golden Gate Ennvironmental
3730 Mission St
San Francisco, California 94110
Tel: (415) 686-8846
RE: 5930 College Ave

Work Order No.: 1010137

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 4 sample(s) on October 18, 2010 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock

October 25, 2010

Date



Date: 10/25/2010

Client: Golden Gate Environmental

Project: 5930 College Ave

Work Order: 1010137

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.



Sample Result Summary

Report prepared for: Brent Wheeler
Golden Gate Environmental

Date Received: 10/18/10

Date Reported: 10/25/10

MW-1

1010137-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Benzene	SW8260B	110	37	55	8100	ug/L
Toluene	SW8260B	110	21	55	820	ug/L
Ethyl Benzene	SW8260B	110	17	55	2200	ug/L
m,p-Xylene	SW8260B	110	22	110	3300	ug/L
o-Xylene	SW8260B	110	14	55	1100	ug/L
TPH(Gasoline)	8260TPH	110	2400	5500	24000	ug/L
MTBE	SW8260B	8.8	3.3	4.4	220	ug/L
tert-Butanol	SW8260B	8.8	13	44	130	ug/L

MW-2

1010137-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
MTBE	SW8260B	8.8	3.3	4.4	35	ug/L
Benzene	SW8260B	8.8	2.9	4.4	460	ug/L
Toluene	SW8260B	8.8	1.7	4.4	16	ug/L
Ethyl Benzene	SW8260B	8.8	1.4	4.4	230	ug/L
m,p-Xylene	SW8260B	8.8	1.8	8.8	100	ug/L
o-Xylene	SW8260B	8.8	1.1	4.4	10	ug/L
TPH(Gasoline)	8260TPH	8.8	190	440	3200	ug/L

MW-3

1010137-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Benzene	SW8260B	8.8	2.9	4.4	270	ug/L
Toluene	SW8260B	8.8	1.7	4.4	11	ug/L
Ethyl Benzene	SW8260B	8.8	1.4	4.4	290	ug/L
m,p-Xylene	SW8260B	8.8	1.8	8.8	390	ug/L
o-Xylene	SW8260B	8.8	1.1	4.4	9.2	ug/L
TPH(Gasoline)	8260TPH	8.8	190	440	2700	ug/L



Sample Result Summary

Report prepared for: Brent Wheeler
Golden Gate Environmental

Date Received: 10/18/10

Date Reported: 10/25/10

PW-1

1010137-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH(Gasoline)	8260TPH	1	22	50	860	ug/L
cis-1,2-Dichloroethene	SW8260B	1	0.33	0.50	61	ug/L
Benzene	SW8260B	1	0.33	0.50	8.8	ug/L
Trichloroethylene	SW8260B	1	0.38	0.50	5.0	ug/L
Toluene	SW8260B	1	0.19	0.50	0.55	ug/L
Tetrachloroethylene	SW8260B	1	0.15	0.50	35	ug/L
Ethyl Benzene	SW8260B	1	0.15	0.50	44	ug/L
m,p-Xylene	SW8260B	1	0.20	1.0	44	ug/L
Isopropyl Benzene	SW8260B	1	0.28	0.50	9.8	ug/L
n-Propylbenzene	SW8260B	1	0.30	0.50	15	ug/L
1,3,5-Trimethylbenzene	SW8260B	1	0.20	0.50	12	ug/L
1,2,4-Trimethylbenzene	SW8260B	1	0.33	0.50	44	ug/L
sec-Butyl Benzene	SW8260B	1	0.24	0.50	4.4	ug/L
Naphthalene	SW8260B	1	0.57	1.0	4.0	ug/L



SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental

Date Received: 10/18/10
Date Reported: 10/25/10

Client Sample ID:	MW-1	Lab Sample ID:	1010137-001A
Project Name/Location:	5930 College Ave	Sample Matrix:	Groundwater
Project Number:	GGE 2014		
Date/Time Sampled:	10/14/10 / 13:05		
Tag Number:	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Benzene	SW8260B	NA	10/25/10	110	37	55	8100		ug/L	402744	NA
Toluene	SW8260B	NA	10/25/10	110	21	55	820		ug/L	402744	NA
Ethyl Benzene	SW8260B	NA	10/25/10	110	17	55	2200		ug/L	402744	NA
m,p-Xylene	SW8260B	NA	10/25/10	110	22	110	3300		ug/L	402744	NA
o-Xylene	SW8260B	NA	10/25/10	110	14	55	1100		ug/L	402744	NA
(S) Dibromofluoromethane	SW8260B	NA	10/25/10	110	61.2	131	113		%	402744	NA
(S) Toluene-d8	SW8260B	NA	10/25/10	110	75.1	127	99.6		%	402744	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/25/10	110	64.1	120	95.1		%	402744	NA
MTBE	SW8260B	NA	10/19/10	8.8	3.3	4.4	220		ug/L	402742	NA
tert-Butanol	SW8260B	NA	10/19/10	8.8	13	44	130		ug/L	402742	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/19/10	8.8	3.2	4.4	ND		ug/L	402742	NA
ETBE	SW8260B	NA	10/19/10	8.8	3.5	4.4	ND		ug/L	402742	NA
TAME	SW8260B	NA	10/19/10	8.8	2.8	4.4	ND		ug/L	402742	NA
1,2-Dichloroethane	SW8260B	NA	10/19/10	8.8	2.4	4.4	ND		ug/L	402742	NA
1,2-Dibromoethane	SW8260B	NA	10/19/10	8.8	1.7	4.4	ND		ug/L	402742	NA
(S) Dibromofluoromethane	SW8260B	NA	10/19/10	8.8	61.2	131	123		%	402742	NA
(S) Toluene-d8	SW8260B	NA	10/19/10	8.8	75.1	127	124		%	402742	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/19/10	8.8	64.1	120	86.8		%	402742	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	10/25/10	10/25/10	110	2400	5500	24000	x	ug/L	402744	1414
(S) 4-Bromofluorobenzene	8260TPH	10/25/10	10/25/10	110	34	114	64.4		%	402744	1414

NOTE: x - Does not match pattern of reference Gasoline standard. Although TPH as Gasoline compounds are present, result is elevated due to high concentration of discrete peak (Benzene). Pattern more typical of aged gasoline.



SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental

Date Received: 10/18/10
Date Reported: 10/25/10

Client Sample ID:	MW-2	Lab Sample ID:	1010137-002A
Project Name/Location:	5930 College Ave	Sample Matrix:	Groundwater
Project Number:	GGE 2014		
Date/Time Sampled:	10/14/10 / 10:00		
Tag Number:	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/19/10	8.8	3.3	4.4	35		ug/L	402742	NA
tert-Butanol	SW8260B	NA	10/19/10	8.8	13	44	ND		ug/L	402742	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/19/10	8.8	3.2	4.4	ND		ug/L	402742	NA
ETBE	SW8260B	NA	10/19/10	8.8	3.5	4.4	ND		ug/L	402742	NA
Benzene	SW8260B	NA	10/19/10	8.8	2.9	4.4	460		ug/L	402742	NA
TAME	SW8260B	NA	10/19/10	8.8	2.8	4.4	ND		ug/L	402742	NA
1,2-Dichloroethane	SW8260B	NA	10/19/10	8.8	2.4	4.4	ND		ug/L	402742	NA
Toluene	SW8260B	NA	10/19/10	8.8	1.7	4.4	16		ug/L	402742	NA
1,2-Dibromoethane	SW8260B	NA	10/19/10	8.8	1.7	4.4	ND		ug/L	402742	NA
Ethyl Benzene	SW8260B	NA	10/19/10	8.8	1.4	4.4	230		ug/L	402742	NA
m,p-Xylene	SW8260B	NA	10/19/10	8.8	1.8	8.8	100		ug/L	402742	NA
o-Xylene	SW8260B	NA	10/19/10	8.8	1.1	4.4	10		ug/L	402742	NA
(S) Dibromofluoromethane	SW8260B	NA	10/19/10	8.8	61.2	131	104		%	402742	NA
(S) Toluene-d8	SW8260B	NA	10/19/10	8.8	75.1	127	105		%	402742	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/19/10	8.8	64.1	120	102		%	402742	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	10/19/10	10/19/10	8.8	190	440	3200	x	ug/L	402742	1409
(S) 4-Bromofluorobenzene	8260TPH	10/19/10	10/19/10	8.8	34	114	40.1		%	402742	1409

NOTE: x - Does not match pattern of reference Gasoline standard. Although TPH as Gasoline compounds are present, result is elevated due to high concentration of discrete peak (Benzene). Pattern more typical of aged gasoline.



SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental

Date Received: 10/18/10
Date Reported: 10/25/10

Client Sample ID:	MW-3	Lab Sample ID:	1010137-003A
Project Name/Location:	5930 College Ave	Sample Matrix:	Groundwater
Project Number:	GGE 2014		
Date/Time Sampled:	10/14/10 / 12:05		
Tag Number:	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	10/19/10	8.8	3.3	4.4	ND		ug/L	402742	NA
tert-Butanol	SW8260B	NA	10/19/10	8.8	13	44	ND		ug/L	402742	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/19/10	8.8	3.2	4.4	ND		ug/L	402742	NA
ETBE	SW8260B	NA	10/19/10	8.8	3.5	4.4	ND		ug/L	402742	NA
Benzene	SW8260B	NA	10/19/10	8.8	2.9	4.4	270		ug/L	402742	NA
TAME	SW8260B	NA	10/19/10	8.8	2.8	4.4	ND		ug/L	402742	NA
1,2-Dichloroethane	SW8260B	NA	10/19/10	8.8	2.4	4.4	ND		ug/L	402742	NA
Toluene	SW8260B	NA	10/19/10	8.8	1.7	4.4	11		ug/L	402742	NA
1,2-Dibromoethane	SW8260B	NA	10/19/10	8.8	1.7	4.4	ND		ug/L	402742	NA
Ethyl Benzene	SW8260B	NA	10/19/10	8.8	1.4	4.4	290		ug/L	402742	NA
m,p-Xylene	SW8260B	NA	10/19/10	8.8	1.8	8.8	390		ug/L	402742	NA
o-Xylene	SW8260B	NA	10/19/10	8.8	1.1	4.4	9.2		ug/L	402742	NA
(S) Dibromofluoromethane	SW8260B	NA	10/19/10	8.8	61.2	131	109		%	402742	NA
(S) Toluene-d8	SW8260B	NA	10/19/10	8.8	75.1	127	116		%	402742	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/19/10	8.8	64.1	120	108		%	402742	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	10/19/10	10/19/10	8.8	190	440	2700	x	ug/L	402742	1409
(S) 4-Bromofluorobenzene	8260TPH	10/19/10	10/19/10	8.8	34	114	25.6	S	%	402742	1409

NOTE: x - Does not match pattern of reference Gasoline standard. Although TPH as Gasoline compounds are present, result elevated due to high concentration of Benzene. Pattern more typical of aged gasoline.
S - Surrogate recovery out of range; matrix effect



SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental

Date Received: 10/18/10
Date Reported: 10/25/10

Client Sample ID:	PW-1	Lab Sample ID:	1010137-004A
Project Name/Location:	5930 College Ave	Sample Matrix:	Groundwater
Project Number:	GGE 2014		
Date/Time Sampled:	10/14/10 / 13:50		
Tag Number:	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	10/25/10	1	0.41	0.50	ND		ug/L	402744	NA
Chloromethane	SW8260B	NA	10/25/10	1	0.41	0.50	ND		ug/L	402744	NA
Vinyl Chloride	SW8260B	NA	10/25/10	1	0.37	0.50	ND		ug/L	402744	NA
Bromomethane	SW8260B	NA	10/25/10	1	0.37	0.50	ND		ug/L	402744	NA
Trichlorofluoromethane	SW8260B	NA	10/25/10	1	0.34	0.50	ND		ug/L	402744	NA
1,1-Dichloroethene	SW8260B	NA	10/25/10	1	0.29	0.50	ND		ug/L	402744	NA
Freon 113	SW8260B	NA	10/25/10	1	0.38	0.50	ND		ug/L	402744	NA
Methylene Chloride	SW8260B	NA	10/25/10	1	0.18	5.0	ND		ug/L	402744	NA
trans-1,2-Dichloroethene	SW8260B	NA	10/25/10	1	0.31	0.50	ND		ug/L	402744	NA
MTBE	SW8260B	NA	10/25/10	1	0.38	0.50	ND		ug/L	402744	NA
tert-Butanol	SW8260B	NA	10/25/10	1	1.5	5.0	ND		ug/L	402744	NA
Diisopropyl ether (DIPE)	SW8260B	NA	10/25/10	1	0.36	0.50	ND		ug/L	402744	NA
1,1-Dichloroethane	SW8260B	NA	10/25/10	1	0.28	0.50	ND		ug/L	402744	NA
ETBE	SW8260B	NA	10/25/10	1	0.40	0.50	ND		ug/L	402744	NA
cis-1,2-Dichloroethene	SW8260B	NA	10/25/10	1	0.33	0.50	61		ug/L	402744	NA
2,2-Dichloropropane	SW8260B	NA	10/25/10	1	0.37	0.50	ND		ug/L	402744	NA
Bromochloromethane	SW8260B	NA	10/25/10	1	0.34	0.50	ND		ug/L	402744	NA
Chloroform	SW8260B	NA	10/25/10	1	0.29	0.50	ND		ug/L	402744	NA
Carbon Tetrachloride	SW8260B	NA	10/25/10	1	0.26	0.50	ND		ug/L	402744	NA
1,1,1-Trichloroethane	SW8260B	NA	10/25/10	1	0.32	0.50	ND		ug/L	402744	NA
1,1-Dichloropropene	SW8260B	NA	10/25/10	1	0.40	0.50	ND		ug/L	402744	NA
Benzene	SW8260B	NA	10/25/10	1	0.33	0.50	8.8		ug/L	402744	NA
TAME	SW8260B	NA	10/25/10	1	0.32	0.50	ND		ug/L	402744	NA
1,2-Dichloroethane	SW8260B	NA	10/25/10	1	0.28	0.50	ND		ug/L	402744	NA
Trichloroethylene	SW8260B	NA	10/25/10	1	0.38	0.50	5.0		ug/L	402744	NA
Dibromomethane	SW8260B	NA	10/25/10	1	0.21	0.50	ND		ug/L	402744	NA
1,2-Dichloropropane	SW8260B	NA	10/25/10	1	0.37	0.50	ND		ug/L	402744	NA
Bromodichloromethane	SW8260B	NA	10/25/10	1	0.23	0.50	ND		ug/L	402744	NA
2-Chloroethyl vinyl ether	SW8260B	NA	10/25/10	1	0.91	2.0	ND		ug/L	402744	NA
cis-1,3-Dichloropropene	SW8260B	NA	10/25/10	1	0.30	0.50	ND		ug/L	402744	NA
Toluene	SW8260B	NA	10/25/10	1	0.19	0.50	0.55		ug/L	402744	NA
Tetrachloroethylene	SW8260B	NA	10/25/10	1	0.15	0.50	35		ug/L	402744	NA
trans-1,3-Dichloropropene	SW8260B	NA	10/25/10	1	0.20	0.50	ND		ug/L	402744	NA
1,1,2-Trichloroethane	SW8260B	NA	10/25/10	1	0.20	0.50	ND		ug/L	402744	NA
Dibromochloromethane	SW8260B	NA	10/25/10	1	0.21	0.50	ND		ug/L	402744	NA



SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental

Date Received: 10/18/10
Date Reported: 10/25/10

Client Sample ID:	PW-1	Lab Sample ID:	1010137-004A
Project Name/Location:	5930 College Ave	Sample Matrix:	Groundwater
Project Number:	GGE 2014		
Date/Time Sampled:	10/14/10 / 13:50		
Tag Number:	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,3-Dichloropropane	SW8260B	NA	10/25/10	1	0.18	0.50	ND		ug/L	402744	NA
1,2-Dibromoethane	SW8260B	NA	10/25/10	1	0.19	0.50	ND		ug/L	402744	NA
Chlorobenzene	SW8260B	NA	10/25/10	1	0.14	0.50	ND		ug/L	402744	NA
Ethyl Benzene	SW8260B	NA	10/25/10	1	0.15	0.50	44		ug/L	402744	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	10/25/10	1	0.10	0.50	ND		ug/L	402744	NA
m,p-Xylene	SW8260B	NA	10/25/10	1	0.20	1.0	44		ug/L	402744	NA
o-Xylene	SW8260B	NA	10/25/10	1	0.13	0.50	ND		ug/L	402744	NA
Styrene	SW8260B	NA	10/25/10	1	0.20	0.50	ND		ug/L	402744	NA
Bromoform	SW8260B	NA	10/25/10	1	0.45	1.0	ND		ug/L	402744	NA
Isopropyl Benzene	SW8260B	NA	10/25/10	1	0.28	0.50	9.8		ug/L	402744	NA
Bromobenzene	SW8260B	NA	10/25/10	1	0.39	0.50	ND		ug/L	402744	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	10/25/10	1	0.26	0.50	ND		ug/L	402744	NA
n-Propylbenzene	SW8260B	NA	10/25/10	1	0.30	0.50	15		ug/L	402744	NA
2-Chlorotoluene	SW8260B	NA	10/25/10	1	0.33	0.50	ND		ug/L	402744	NA
1,3,5-Trimethylbenzene	SW8260B	NA	10/25/10	1	0.20	0.50	12		ug/L	402744	NA
4-Chlorotoluene	SW8260B	NA	10/25/10	1	0.32	0.50	ND		ug/L	402744	NA
tert-Butylbenzene	SW8260B	NA	10/25/10	1	0.29	0.50	ND		ug/L	402744	NA
1,2,3-Trichloropropane	SW8260B	NA	10/25/10	1	0.59	1.0	ND		ug/L	402744	NA
1,2,4-Trimethylbenzene	SW8260B	NA	10/25/10	1	0.33	0.50	44		ug/L	402744	NA
sec-Butyl Benzene	SW8260B	NA	10/25/10	1	0.24	0.50	4.4		ug/L	402744	NA
p-Isopropyltoluene	SW8260B	NA	10/25/10	1	0.25	0.50	ND		ug/L	402744	NA
1,3-Dichlorobenzene	SW8260B	NA	10/25/10	1	0.31	0.50	ND		ug/L	402744	NA
1,4-Dichlorobenzene	SW8260B	NA	10/25/10	1	0.37	0.50	ND		ug/L	402744	NA
n-Butylbenzene	SW8260B	NA	10/25/10	1	0.32	0.50	ND		ug/L	402744	NA
1,2-Dichlorobenzene	SW8260B	NA	10/25/10	1	0.39	0.50	ND		ug/L	402744	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	10/25/10	1	0.45	1.0	ND		ug/L	402744	NA
Hexachlorobutadiene	SW8260B	NA	10/25/10	1	0.22	0.50	ND		ug/L	402744	NA
1,2,4-Trichlorobenzene	SW8260B	NA	10/25/10	1	0.48	1.0	ND		ug/L	402744	NA
Naphthalene	SW8260B	NA	10/25/10	1	0.57	1.0	4.0		ug/L	402744	NA
1,2,3-Trichlorobenzene	SW8260B	NA	10/25/10	1	0.52	1.0	ND		ug/L	402744	NA
(S) Dibromofluoromethane	SW8260B	NA	10/25/10	1	61.2	131	106		%	402744	NA
(S) Toluene-d8	SW8260B	NA	10/25/10	1	75.1	127	96.8		%	402744	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	10/25/10	1	64.1	120	109		%	402744	NA



SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental

Date Received: 10/18/10
Date Reported: 10/25/10

Client Sample ID:	PW-1	Lab Sample ID:	1010137-004A
Project Name/Location:	5930 College Ave	Sample Matrix:	Groundwater
Project Number:	GGE 2014		
Date/Time Sampled:	10/14/10 / 13:50		
Tag Number:	5930 College Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	10/25/10	10/25/10	1	22	50	860	x	ug/L	402744	1414
(S) 4-Bromofluorobenzene	8260TPH	10/25/10	10/25/10	1	34	114	65.5		%	402744	1414

NOTE: x - Does not match pattern of reference Gasoline standard. Reported TPH value includes significant amount of non-target hydrocarbons (HVOCs and possibly aged gasoline) within range of C5-C12 quantified as gasoline.



MB Summary Report

Work Order:	1010137	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/19/10	Analytical Batch:	402742
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.41	0.50	ND		
Chloromethane	0.41	0.50	ND		
Vinyl Chloride	0.37	0.50	ND		
Bromomethane	0.37	0.50	ND		
Trichlorofluoromethane	0.34	0.50	ND		
1,1-Dichloroethene	0.29	0.50	ND		
Freon 113	0.38	0.50	ND		
Methylene Chloride	0.18	5.0	ND		
trans-1,2-Dichloroethene	0.31	0.50	ND		
MTBE	0.38	0.50	ND		
tert-Butanol	1.5	5.0	ND		
Diisopropyl ether (DIPE)	0.36	0.50	ND		
1,1-Dichloroethane	0.28	0.50	ND		
ETBE	0.40	0.50	ND		
cis-1,2-Dichloroethene	0.33	0.50	ND		
2,2-Dichloropropane	0.37	0.50	ND		
Bromochloromethane	0.34	0.50	ND		
Chloroform	0.29	0.50	ND		
Carbon Tetrachloride	0.26	0.50	ND		
1,1,1-Trichloroethane	0.32	0.50	ND		
1,1-Dichloropropene	0.40	0.50	ND		
Benzene	0.33	0.50	ND		
TAME	0.32	0.50	ND		
1,2-Dichloroethane	0.28	0.50	ND		
Trichloroethylene	0.38	0.50	ND		
Dibromomethane	0.21	0.50	ND		
1,2-Dichloropropane	0.37	0.50	ND		
Bromodichloromethane	0.23	0.50	ND		
2-Chloroethyl vinyl ether	0.91	2.0	ND		
cis-1,3-Dichloropropene	0.30	0.50	ND		
Toluene	0.19	0.50	ND		
Tetrachloroethylene	0.15	0.50	ND		
trans-1,3-Dichloropropene	0.20	0.50	ND		
1,1,2-Trichloroethane	0.20	0.50	ND		
Dibromochloromethane	0.21	0.50	ND		
1,3-Dichloropropane	0.18	0.50	ND		
1,2-Dibromoethane	0.19	0.50	ND		
Chlorobenzene	0.14	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
1,1,1,2-Tetrachloroethane	0.10	0.50	ND		



MB Summary Report

Work Order:	1010137	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/19/10	Analytical Batch:	402742
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
m,p-Xylene	0.20	1.0	ND		
o-Xylene	0.13	0.50	ND		
Styrene	0.20	0.50	ND		
Bromoform	0.45	1.0	ND		
Isopropyl Benzene	0.28	0.50	ND		
Bromobenzene	0.39	0.50	ND		
1,1,2,2-Tetrachloroethane	0.26	0.50	ND		
n-Propylbenzene	0.30	0.50	ND		
2-Chlorotoluene	0.33	0.50	ND		
1,3,5-Trimethylbenzene	0.20	0.50	ND		
4-Chlorotoluene	0.32	0.50	ND		
tert-Butylbenzene	0.29	0.50	ND		
1,2,3-Trichloropropane	0.59	1.0	ND		
1,2,4-Trimethylbenzene	0.33	0.50	ND		
sec-Butyl Benzene	0.24	0.50	ND		
p-Isopropyltoluene	0.25	0.50	ND		
1,3-Dichlorobenzene	0.31	0.50	ND		
1,4-Dichlorobenzene	0.37	0.50	ND		
n-Butylbenzene	0.32	0.50	ND		
1,2-Dichlorobenzene	0.39	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.45	1.0	ND		
Hexachlorobutadiene	0.22	0.50	ND		
1,2,4-Trichlorobenzene	0.48	1.0	ND		
Naphthalene	0.57	1.0	ND		
1,2,3-Trichlorobenzene	0.52	1.0	ND		
Ethanol	100	100	ND	TIC	
(S) Dibromofluoromethane			102		
(S) Toluene-d8			113		
(S) 4-Bromofluorobenzene			101		

Work Order:	1010137	Prep Method:	5030	Prep Date:	10/19/10	Prep Batch:	1409
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	10/19/10	Analytical Batch:	402742
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH(Gasoline)	22	50	ND		
(S) 4-Bromofluorobenzene			71.1		



MB Summary Report

Work Order:	1010137	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/25/10	Analytical Batch:	402744
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.41	0.50	ND		
Chloromethane	0.41	0.50	ND		
Vinyl Chloride	0.37	0.50	ND		
Bromomethane	0.37	0.50	ND		
Trichlorofluoromethane	0.34	0.50	ND		
1,1-Dichloroethene	0.29	0.50	ND		
Freon 113	0.38	0.50	ND		
Methylene Chloride	0.18	5.0	ND		
trans-1,2-Dichloroethene	0.31	0.50	ND		
MTBE	0.38	0.50	ND		
tert-Butanol	1.5	5.0	ND		
Diisopropyl ether (DIPE)	0.36	0.50	ND		
1,1-Dichloroethane	0.28	0.50	ND		
ETBE	0.40	0.50	ND		
cis-1,2-Dichloroethene	0.33	0.50	ND		
2,2-Dichloropropane	0.37	0.50	ND		
Bromochloromethane	0.34	0.50	ND		
Chloroform	0.29	0.50	ND		
Carbon Tetrachloride	0.26	0.50	ND		
1,1,1-Trichloroethane	0.32	0.50	ND		
1,1-Dichloropropene	0.40	0.50	ND		
Benzene	0.33	0.50	ND		
TAME	0.32	0.50	ND		
1,2-Dichloroethane	0.28	0.50	ND		
Trichloroethylene	0.38	0.50	ND		
Dibromomethane	0.21	0.50	ND		
1,2-Dichloropropane	0.37	0.50	ND		
Bromodichloromethane	0.23	0.50	ND		
2-Chloroethyl vinyl ether	0.91	2.0	ND		
cis-1,3-Dichloropropene	0.30	0.50	ND		
Toluene	0.19	0.50	ND		
Tetrachloroethylene	0.15	0.50	ND		
trans-1,3-Dichloropropene	0.20	0.50	ND		
1,1,2-Trichloroethane	0.20	0.50	ND		
Dibromochloromethane	0.21	0.50	ND		
1,3-Dichloropropane	0.18	0.50	ND		
1,2-Dibromoethane	0.19	0.50	ND		
Chlorobenzene	0.14	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
1,1,1,2-Tetrachloroethane	0.10	0.50	ND		
m,p-Xylene	0.20	1.0	ND		



MB Summary Report

Work Order:	1010137	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/25/10	Analytical Batch:	402744
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
o-Xylene	0.13	0.50	ND		
Styrene	0.20	0.50	ND		
Bromoform	0.45	1.0	ND		
Isopropyl Benzene	0.28	0.50	ND		
Bromobenzene	0.39	0.50	ND		
1,1,2,2-Tetrachloroethane	0.26	0.50	ND		
n-Propylbenzene	0.30	0.50	ND		
2-Chlorotoluene	0.33	0.50	ND		
1,3,5-Trimethylbenzene	0.20	0.50	ND		
4-Chlorotoluene	0.32	0.50	ND		
tert-Butylbenzene	0.29	0.50	ND		
1,2,3-Trichloropropane	0.59	1.0	ND		
1,2,4-Trimethylbenzene	0.33	0.50	ND		
sec-Butyl Benzene	0.24	0.50	ND		
p-Isopropyltoluene	0.25	0.50	ND		
1,3-Dichlorobenzene	0.31	0.50	ND		
1,4-Dichlorobenzene	0.37	0.50	ND		
n-Butylbenzene	0.32	0.50	ND		
1,2-Dichlorobenzene	0.39	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.45	1.0	ND		
Hexachlorobutadiene	0.22	0.50	ND		
1,2,4-Trichlorobenzene	0.48	1.0	ND		
Naphthalene	0.57	1.0	ND		
1,2,3-Trichlorobenzene	0.52	1.0	ND		
Ethanol	100	100	ND	TIC	
(S) Dibromofluoromethane			97.4		
(S) Toluene-d8			97.3		
(S) 4-Bromofluorobenzene			112		

Work Order:	1010137	Prep Method:	5030	Prep Date:	10/25/10	Prep Batch:	1414
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	10/25/10	Analytical Batch:	402744
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH(Gasoline)	22	50	ND		
(S) 4-Bromofluorobenzene			75.1		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1010137	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/19/10	Analytical Batch:	402742
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.29	0.50		17.04	82.3	74.6	9.66	61.4 - 129	30	
Benzene	0.33	0.50		17.04	90.6	79.5	12.8	66.9 - 140	30	
Trichloroethylene	0.38	0.50		17.04	92.8	89.4	3.67	69.3 - 144	30	
Toluene	0.19	0.50		17.04	85.8	81.7	4.70	76.6 - 123	30	
Chlorobenzene	0.14	0.50		17.04	82.5	109	27.5	73.9 - 137	30	
(S) Dibromofluoromethane				11.36	117	110		61.2 - 131		
(S) Toluene-d8				11.36	98.8	107		75.1 - 127		
(S) 4-Bromofluorobenzene				11.36	107	72.8		64.1 - 120		

Work Order:	1010137	Prep Method:	5030	Prep Date:	10/19/10	Prep Batch:	1409
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	10/19/10	Analytical Batch:	402742
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	22	50		227.27	102	97.0	5.10	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.36	75.4	68.2		58.4 - 133		

Work Order:	1010137	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	10/25/10	Analytical Batch:	402744
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.29	0.50		17.04	86.9	84.6	2.60	61.4 - 129	30	
Benzene	0.33	0.50		17.04	92.5	92.2	0.571	66.9 - 140	30	
Trichloroethylene	0.38	0.50		17.04	96.9	97.4	0.544	69.3 - 144	30	
Toluene	0.19	0.50		17.04	101	104	2.62	76.6 - 123	30	
Chlorobenzene	0.14	0.50		17.04	89.0	105	16.5	73.9 - 137	30	
(S) Dibromofluoromethane				11.36	84.2	87.4		61.2 - 131		
(S) Toluene-d8				11.36	95.4	103		75.1 - 127		
(S) 4-Bromofluorobenzene				11.36	105	102		64.1 - 120		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1010137	Prep Method:	5030	Prep Date:	10/25/10	Prep Batch:	1414
Matrix:	Water	Analytical Method:	8260TPH	Analyzed Date:	10/25/10	Analytical Batch:	402744
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	22	50		227.27	107	81.0	27.3	52.4 - 127	30	
(S) 4-Bromofluorobenzene				11.36	75.9	57.4		58.4 - 133		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m³ , mg.m³ , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Golden Gate Environmental

Date and Time Received: 10/18/2010 14:40

Project Name: 5930 College Ave

Received By: NK

Work Order No.: 1010137

Physically Logged By: NK

Checklist Completed By: NK

Carrier Name: Gold Bullet Courier

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Yes

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Temperature: °C
Water-VOA vials have zero headspace?
Water-pH acceptable upon receipt?

pH Checked by: pH Adjusted by:



Login Summary Report

Client ID:	TL5127 Golden Gate Ennvironmental	QC Level:	
Project Name:	5930 College Ave	TAT Requested:	5+ day:0
Project # :	GGE 2014	Date Received:	10/18/2010
Report Due Date:	10/25/2010	Time Received:	14:40
Comments:	5 day TAT! Received 4 waters for TPHg,BTEX,fuel oxys and 1 for 8260 full list.		
Work Order # :	1010137		

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1010137-001A	MW-1	10/14/10 13:05	Water	12/02/10			W_8260Pet W_GCMS-GRO	
Sample Note:	TPHg,BTEX,Fuel oxys.							
1010137-002A	MW-2	10/14/10 10:00	Water	12/02/10			W_8260Pet W_GCMS-GRO	
1010137-003A	MW-3	10/14/10 12:05	Water	12/02/10			W_8260Pet W_GCMS-GRO	
1010137-004A	PW-1	10/14/10 13:50	Water	12/02/10			W_GCMS-GRO W_8260Full	



Milpitas, CA 95035
 Phone: 408.263.5258
 FAX: 408.263.8293
 www.torrentlab.com

RESET

CHAIN OF CUSTODY

LAB WORK ORDER NO

1010137

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: Golden Gate Environmental, Inc.			Location of Sampling: 5930 College Avenue, Oakland		
Address: 3730 Mission Street			Purpose: 4th Quarter 2010 GWM		
City: San Francisco	State: CA	Zip Code: 94110	Special Instructions / Comments: Global ID: T0600102112. Field Point ID=Sample ID		
Telephone: 415-970-9088		FAX: 415-970-9089			
REPORT TO: Brent Wheeler		SAMPLER: John Carver		P.O. #: GGE 2014	
EMAIL: b.wheeler@ggtr.com					

TURNAROUND TIME: <input type="checkbox"/> 10 Work Days <input type="checkbox"/> 3 Work Days <input type="checkbox"/> Noon - Nxt Day <input type="checkbox"/> 7 Work Days <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 2 - 8 Hours <input checked="" type="checkbox"/> 5 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> Other		SAMPLE TYPE: <input type="checkbox"/> Storm Water <input type="checkbox"/> Air <input type="checkbox"/> Waste Water <input type="checkbox"/> Other <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Soil		REPORT FORMAT: <input type="checkbox"/> QC Level IV <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Excel / EDD		ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-G, BTEX	Fuel Oxygenates	VOCs (Full List)								REMARKS	
001A	MW-1	101410/1305	GW	3	Voa	✓	✓										
002A	MW-2	101410/1000	GW	3	Voa	✓	✓										
003A	MW-3	101410/1205	GW	3	Voa	✓	✓										
004A	PW-1	101410/1350	GW	3	Voa	✓		✓									

1	Relinquished By: <i>[Signature]</i> Print: <i>John Carver</i>	Date: <i>10/14/10</i>	Time:	Received By: <i>[Signature]</i> Print: <i>Tom Christol</i>	Date: <i>09/18/10</i>	Time: <i>1244</i>
2	Relinquished By: <i>[Signature]</i> Print: <i>Tom Christol</i>	Date: <i>10-18-10</i>	Time: <i>240</i>	Received By: <i>[Signature]</i> Print: <i>H S Davis</i>	Date: <i>10/18/10</i>	Time: <i>2:40 pm</i>

Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment Gold bullet Sample seals intact? Yes NO N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Page 1 of 1

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 - Monitoring Report - Semi-Annually
Submittal Title:	4Q10 Groundwater Sample Results
Facility Global ID:	T0600102112
Facility Name:	SHEAFFS SERVICE GARAGE
File Name:	GGE 1010137 5930 College EDF.zip
Organization Name:	Golden Gate Environmental, Inc.
Username:	GGE
IP Address:	75.55.192.158
Submittal Date/Time:	11/10/2010 3:23:25 PM
Confirmation Number:	9518464088

[VIEW QC REPORT](#)[VIEW DETECTIONS REPORT](#)

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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
Submittal Title:	4Q10 Groundwater Monitoring Results
Facility Global ID:	T0600102112
Facility Name:	SHEAFFS SERVICE GARAGE
File Name:	GEO_WELL.zip
Organization Name:	Golden Gate Environmental, Inc.
Username:	GGE
IP Address:	75.55.192.158
Submittal Date/Time:	11/10/2010 3:24:05 PM
Confirmation Number:	9368845641

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number C A T 0 0 0 3 4 3 7 3 7		2. Page 1 of 1		3. Emergency Response Phone (510) 476 1740		4. Manifest Tracking Number 004451786 JJK			
		5. Generator's Name and Mailing Address WILLIAM SHEAFF TRUST 1945 PARKSIDE DRIVE CONCORD CA 94519						Generator's Site Address (if different than mailing address) 5930 COLLEGE AVE OAKLAND CA 94618			
6. Transporter 1 Company Name UNI WASTE						U.S. EPA ID Number C A T 0 0 0 3 1 7 3 2 0					
7. Transporter 2 Company Name						U.S. EPA ID Number					
8. Designated Facility Name and Site Address SIEMENS WATER TECHNOLOGIES CORP 5375 SOUTH BOYLE AVENUE VERNON CA 90058						U.S. EPA ID Number C A D 0 9 7 0 3 0 9 9 3					
Facility's Phone: (800) 266-7747											
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X		1. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, NOS 9, UN 3082, PG III (WATER WITH TRACE ORGANICS)				001 DM		26	G	F001 343 D018	
		2.									
		3.									
		4.									
14. Special Handling Instructions and Additional Information WEAR PPE, ERG 171											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offeror's Printed/Typed Name on Behalf of Owner Tom Haller						Signature <i>Tom Haller</i>			Month Day Year 3 17 10		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name William Clark						Signature <i>William Clark</i>			Month Day Year 3 17 10		
Transporter 2 Printed/Typed Name						Signature			Month Day Year		
18. Discrepancy											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
18b. Alternate Facility (or Generator)						Manifest Reference Number: _____ U.S. EPA ID Number _____					
Facility's Phone: _____											
18c. Signature of Alternate Facility (or Generator)									Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1.			2.			3.			4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name						Signature			Month Day Year		

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CA 000343727

2. Page 1 of 1

3. Emergency Response Phone: (415) 476-1740

4. Manifest Tracking Number: 007269297 JJK

5. Generator's Name and Mailing Address: WILLIAM SHEAFF TRUST, 1945 PARKSIDE DRIVE, CONCORD, CA 94510

Generator's Site Address (if different than mailing address): 5930 COLLEGE AVE, OAKLAND, CA 94618

6. Transporter 1 Company Name: UNIWASTE, 925 689-3450

U.S. EPA ID Number: CA 000517320

7. Transporter 2 Company Name: (blank)

U.S. EPA ID Number: (blank)

8. Designated Facility Name and Site Address: CLEARWATER ENVIRONMENTAL, 2430 ALMOND DRIVE, SPANISH SPRINGS, NV 89429

U.S. EPA ID Number: NV D002348403

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes				
		No.	Type			1	2	3	4	
1.	NON RCRA HAZARDOUS WASTE LIQUID	001	DM	45	G	223				
2.										
3.										
4.										

14. Special Handling Instructions and Additional Information: WEAR PPE, ERG # 171

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BERT W. MELDR

Signature: *Bert W. Meldr*

Month: 11, Day: 2, Year: 10

16. International Shipments: Import to U.S. Export from U.S.

Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RONALD WILLIAMS

Signature: *Ronald Williams*

Month: 11, Day: 2, Year: 10

Transporter 2 Printed/Typed Name: _____

Signature: _____

Month: _____, Day: _____, Year: _____

18. Discrepancy

18a. Discrepancy Indication Space: Quantity Type Residue Partial Rejection Full Rejection

8b. Alternate Facility (or Generator): _____

Manifest Reference Number: _____

U.S. EPA ID Number: _____

8c. Signature of Alternate Facility (or Generator): _____

Month: _____, Day: _____, Year: _____

9. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

2. _____ 3. _____ 4. _____

10. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: _____

Signature: _____

Month: _____, Day: _____, Year: _____



Ecosystems Research Division EPA On-line Tools for Site Assessment Calculation

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Hydraulic Gradient

Gradient Calculation from fitting a plane to three points

$$a x_1 + b y_1 + c = h_1$$

$$a x_2 + b y_2 + c = h_2$$

$$a x_3 + b y_3 + c = h_3$$

where (x_i, y_i) are the coordinates of the well and

h_i is the head

$$i = 1, 2, 3$$

The gradient is calculated from the square root of $(a^2 + b^2)$ and the angle from the arctangent of a/b or b/a depending on the quadrant

<input type="button" value="Example Data Set 1"/>	<input type="button" value="Calculate"/>	<input type="button" value="Clear"/>
<input type="button" value="Save Data"/>	<input type="button" value="Recall Data"/>	<input type="button" value="Go Back"/>
Site Name 5930 College Ave., Oak		
Date 10/14/10	<input type="button" value="Current Date"/>	
Calculation basis Head		
	Coordinates ft	
x-coordinate	y-coordinate	head ft
6055822.91	2135878.96	185.60
6055818.98	2135842.80	185.46
6055924.91	2135914.96	185.79
Gradient Magnitude (i) 0.003850		
Degrees from North (+ y axis) 187.7		

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WCMS

Last updated on Monday, October 11, 2010

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1									
01/03/01	196.91	12.75	184.16	930 ¹	2.9	6.9	2.7	7.6	14/<2.0 ³
04/25/01	196.91	9.23	187.68	210 ⁴	2.0	1.5	2.0	3.3	5.3/<2.0 ³
07/09/01	196.91	11.86	185.05	290 ⁵	1.8	2.0	2.5	0.96	<2.5
06/08/00	196.91	13.49	183.42	200	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	196.91	7.33	189.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/08/02	196.91	7.45	189.46	670	<0.50	<2.0	<1.0	5.6	<2.5
10/15/02	196.91	13.68	183.23	260	0.62	0.82	<0.50	<1.5	--
04/15/03	196.91	6.82	190.09	1,700	1.3	<5.0	<2.0	<5.0	--
10/31/03	196.91	13.72	183.19	150	<2.0	0.7	<2.0	<5.0	--
04/23/04	196.91	9.02	187.89	<50	<0.5	<0.5	<0.5	<1.5	--
10/22/04	196.91	11.50	185.41	63	<0.5	<0.5	<0.5	<1.5	--
04/14/05	196.91	7.11	189.80	<50	<0.5	<0.5	<0.5	<1.5	--
10/14/05	196.91	11.90	185.01	160	<0.5	<0.5	0.6	<5.0	--
04/14/06	196.91	6.95	189.96	<50	<0.5	<0.5	<0.5	<1.5	--
10/26/06	196.91	11.68	185.23	<50	<0.5	<0.5	<0.5	<1.5	--
04/13/07 ⁶	196.91	10.71	186.20	1,200	3.4	<5.0	2.1	<20	--
10/22/07	196.91	13.75	183.16	<50	<0.5	<0.5	<0.5	<1.5	--
04/21/08	196.91	9.95	186.96	120	<0.5	<0.5	<0.5	<1.5	--
10/15/08	196.91	14.30	182.61	<50	<0.5	<0.5	<0.5	<1.5	--
04/15/09	196.91	9.20	187.71	<50	<0.5	<0.5	<0.5	<1.5	--
10/01/09	196.91	14.26	182.65	<50	<0.5	<0.5	<0.5	<1.5	--
04/12/10	196.91	7.04	189.87	<50	<0.5	<0.5	<0.5	<1.5	--
MW-2									
01/03/01	197.35	12.48	184.87	2,100 ²	110	11	63	25	83/2.2 ³
04/25/01	197.35	8.90	188.45	1,700 ⁴	150	12	30	15	150/<2.0 ³
07/09/01	197.35	11.44	185.91	2,500 ⁵	200	21	55	26	<50
04/08/02	197.35	13.37	183.98	4,200	87	2.8	29	9.8	<2.5
01/13/02	197.35	6.55	190.80	410	20	2.9	<2.5	4.4	27/<2.0 ³
04/08/02	197.35	8.37	188.98	4,000	70	1.7	17	17	<2.5
10/15/02	197.35	13.00	184.35	3,100	41	2.2	16	<6.0	--
04/15/03	197.35	7.58	189.77	2,400	37	<2.5	12	<7.5	--
10/31/03	197.35	13.02	184.33	2,300	12	3.4	4.8	<7.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-2 (cont)									
04/23/04	197.35	8.38	188.97	960	8.9	1.0	2.4	<1.5	--
10/22/04	197.35	11.41	185.94	2,200	24	<2.5	4.1	<10	--
04/14/05	197.35	6.69	190.66	640	2.1	<2.0	<2.0	7.5	--
10/14/05	197.35	11.14	186.21	1,200	6.9	<2.5	<2.5	<7.5	--
04/14/06	197.35	6.54	190.81	180	<0.5	<0.5	<0.5	<5.0	--
10/26/06	197.35	11.02	186.33	550	<2.0	0.5	<2.0	<10	--
04/13/07 ⁶	197.35	9.95	187.40	<50	<0.5	<0.5	<0.5	<1.5	--
10/22/07	197.35	12.63	184.72	3,200	12	<5.0	4.7	<20	--
04/21/08	197.35	9.31	188.04	860	1.0	<2.0 ⁷	<2.0 ⁷	<10 ⁷	--
10/15/08	197.35	13.71	183.64	480	1.3	0.8	1.1	<5.0 ⁸	--
04/15/09	197.35	8.79	188.56	370	0.7	1.3	0.9	6.5	--
10/01/09	197.35	13.67	183.68	<50	<0.5	<0.5	<0.5	<1.5	--
04/12/10	197.35	6.62	190.73	310	1.0	<0.5	0.5	<1.5	--
TRIP BLANK									
TB-LB									
01/03/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/25/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/09/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA									
10/08/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/08/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--
04/15/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/31/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/23/04	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/22/04	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/14/05	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/14/05	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/14/06	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/26/06	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/13/07	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)									
10/22/07	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/21/08	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/15/08	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/15/09	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/01/09	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/12/10	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl Tertiary Butyl Ether

(µg/L) = Micrograms per liter

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on December 27, 2000, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Oakland benchmark being a cut square in the top of curb, at the curb return at the northeast corner of College Avenue and Miles Avenue, (Benchmark Elev. = 179.075 feet, msl).

¹ Laboratory report indicates unidentified hydrocarbons C6-C12.

² Laboratory report indicates gasoline C6-C12.

³ MTBE by EPA Method 8260.

⁴ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons <C6.

⁵ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.

⁶ Current laboratory analytical results do not coincide with historical data, although the laboratory results were confirmed.

⁷ Laboratory report indicates that due to the presence of interferent near their retention time, normal reporting limits were not attained for toluene, ethylbenzene, and total xylenes. The presence or concentration of these compounds cannot be determined below the reporting limits due to the presence of these interferents.

⁸ Laboratory report indicates that due to the presence of an interferent near its retention time, the normal reporting limit was not attained for total xylenes. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)
MW-1	01/03/01	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
MW-2	01/03/01	<500	<50	2.2	<2.0	<2.0	<2.0	<2.0
	04/25/01	--	<20	<2.0	<2.0	<2.0	<2.0	--
	01/13/02	--	<20	<2.0	<2.0	<2.0	<2.0	--

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = di-Isopropyl ether
ETBE = Ethyl t-butyl ether

TAME = t-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
(µg/L) = Micrograms per liter
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Groundwater Analytical Results
Former Chevron Service Station #209339
5940 College Avenue
Oakland, California

WELL ID	DATE	FERROUS IRON (mg/L)	TOTAL ALKALINITY (mg/L)	SULFATE AS SO ₄ (mg/L)
MW-1	04/25/01	0.15	380	11
	07/09/01	<0.050	410	6.8
	10/08/01	-- ¹	414	5.4
	01/13/02	<0.10 ²	390	10
MW-2	04/25/01	0.093	680	21
	07/09/01	0.44	600	9.3
	10/08/01	-- ¹	683	3.8
	01/13/02	<0.10 ²	630	7.0

EXPLANATIONS:

(mg/L) = milligrams per liter

-- = Not Analyzed

ANALYTICAL METHODS:

EPA Method SM 3500 Fe for Ferrous Iron

EPA Method 310.1 for Total Alkalinity

EPA Method 300.0 for Sulfate as SO₄

¹ Analysis was not performed by the laboratory as requested on the Chain of Custody.

² Due to sample transfer by the lab from one laboratory to another, the sample was received beyond the EPA recommended holding time.

Table 4

Field Measurements

Former Chevron Service Station #209339

5940 College Avenue

Oakland, California

WELL ID	DATE	D.O.	ORP
		Before Purging (mg/L)	Before Purging (mV)
MW-1	07/09/01	1.25	111
	10/08/01	1.20	64
	01/13/02 ¹	--	--
MW-2	07/09/01	1.89	16
	10/08/01	1.04	58
	01/13/02 ¹	--	--

EXPLANATIONS:

D.O. = Dissolved Oxygen Concentration

(mg/L) = Milligrams per liter

ORP = Oxygen Reduction Potential

(mV) = Millivolt

-- = Not Measured

¹ D.O. and ORP meter erratic; measurements not taken.