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By Alameda County Environmental Health at 9:43 am, Nov 19, 2014

October 18, 2014

Mr. Mark Detterman, P.G., C.E.G.
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

RE: Groundwater Monitoring Report - 2nd Quarter 2014

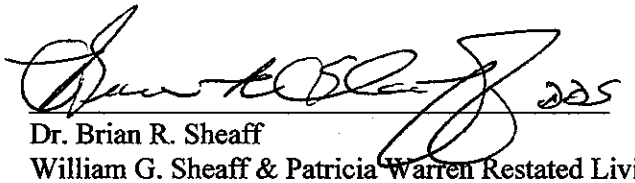
SITE: Sheaff's Garage
5930 College Avenue, Oakland, California
ACHCSA Fuel Leak Case No. RO0000377
GGE Project 2014

Dear Mr. Detterman:

Upon my authorization, Golden Gate Environmental, Inc. has prepared the attached *Groundwater Monitoring Report* for the semi-annual groundwater monitoring and sampling activities conducted during the 2nd Quarter 2014 at the above-referenced property on April 14, 2014. GGTR has uploaded an electronic copy of the document to the State Water Resources Control Board's GeoTracker Database System, as well as the Alameda County Health Care Services Agency FTP Site. Should you have any questions, please contact Mr. Brent Wheeler, Project Engineer of Golden Gate Environmental 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 R. Sheaff
William G. Sheaff & Patricia Warren Restated Living Trust U/D/T 2/14/89

Distribution: (1) Addressee

Phase I & II Site Assessments
Vapor Intrusion Assessments
Soil & Groundwater Sampling
Soil Corrosion Testing
Site Remediation
UST Removal & Oversight
Hazardous Waste Management
UST Cleanup Fund Assistance

October 18, 2014
GGE Project #2014

William G. Sheaff & Patricia Warren Restated Living Trust U/D/T 2/14/89
Dr. Brian Sheaff
1945 Parkside Drive
Concord, CA 94519

RE: Groundwater Monitoring Report – 2nd Quarter 2014

SITE: Former Sheaff's Garage
5930 College Avenue, Oakland, California
ACHCSA Fuel Leak Case No. RO0000377

Dear Dr. Sheaff:

Golden Gate Environmental, Inc. (GGE) is pleased to submit the enclosed copy of the G*roundwater Monitoring Report – 2nd Quarter 2014,* which discusses the activities and findings of the groundwater monitoring and sampling event conducted on April 14, 2014 at 5930 College Avenue in Oakland, California. GGTR uploaded an electronic copy of the report to the State Water Resources Control Board's GeoTracker Database System. Upon your approval, an electronic copy will be submitted to the attention of Mr. Mark Detterman via the Alameda County Environmental Cleanup Oversight Program's FTP site.

Should you have any questions, please contact us at your convenience. In my absence from the office, I may be reached by cellular service at (415) 686-8846.

Respectfully Submitted,

Brent A. Wheeler
Golden Gate Environmental, Inc.

Enclosures (1)

Cc: Mr. Mark Detterman, ACHCSA – FTP Site
Mr. John Accacian - Email

GROUNDWATER MONITORING REPORT
2nd Quarter 2014

Sheaff's Garage
5930 College Avenue
Oakland, CA 94618

Alameda County Fuel Leak Case No. RO0000377

Prepared For:

William G. Sheaff TTE Trust
Dr. Brian R. Sheaff, D.D.S.
1945 Parkside Drive
Concord, CA 94519

Prepared By:

Golden Gate Environmental, Inc.
1455 Yosemite Avenue
San Francisco, California 94124

Project No. 2014

Sampling Dates: April 14, 2014
Report Date: October 16, 2014

Brent Wheeler
Project Manager

REGISTERED GEOLOGIST
MARK YOUNGKIN
No. 1380
CERTIFIED ENGINEERING GEOLOGIST
Exp: 4-30-15
STATE OF CALIFORNIA

Mark Youngkin
Registered Geologist CEG No. 1380

GROUNDWATER MONITORING REPORT
2nd Quarter 2014

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

CONTENTS

GROUNDWATER MONITORING REPORT
2nd Quarter 2014

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

Introduction

Golden Gate Environmental, Inc. (GGE) presents the results of the 2nd Quarter 2014 groundwater monitoring and sampling event conducted on April 14, 2014, at 5930 College Avenue in Oakland, California (the Site). The Alameda County Environmental Health (ACEH) agency has designated the Site as Fuel Leak Case No. RO000377 and requires semi-annual groundwater monitoring and sampling as part of an ongoing Leaking Underground Storage Tank (LUST) cleanup investigation. Figure 1 presents a Site Location Map. Figure 2 titled *S*ite Vicinity Map and Figure 3 titled Site Plan depict the pertinent features of the Site and adjacent properties along with the associated land use. Figure 4 titled Groundwater Data Diagram - April 2014 shows the groundwater flow direction for the April 14, 2014 event. 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) in piezometer PW-1. Documentation of the monitoring, sampling and laboratory procedures are presented in the attachments.

Site Location

The Site is a commercial property located at 5930 College Avenue along the east side of College Avenue between Harwood Street and Chabot Road in Oakland, California. The Site lies approximately 0.2 mile (1,000 feet) north of Highway 24 and about two miles east of Interstate 80 and the San Francisco Bay. The elevation of the Site is approximately 195 feet above Mean Sea Level. The property is relatively flat lying with the local topographic relief directed toward the west-southwest in the general direction of the San Francisco Bay as shown on Figure 1, Site Location Map. The topographic map of Figure 1 depicts the area of the subject property as dense urban development. Figure 2, Site Vicinity Map, shows the mixed-use commercial-residential character of the surrounding neighborhood. Commercial-retail corridors are located along main thoroughfares such as College Avenue with residential neighborhoods situated between the business corridors.

Site Description

The property is currently 100% occupied by Stauder Automotive Service for the maintenance and repair of automobiles. Figure 3, Site Plan, shows features of the subject property. The subject building is a small single-story industrial-style building constructed in 1952. The subject property is approximately 5,500 square feet in area with about 75% utilized by the garage building and 25% used as an exterior paved storage yard and parking lot. Two underground storage tanks (UST) were formerly located beneath the sidewalk at the southwest corner of the Site on the College Avenue frontage. One 675-gallon gasoline and one 340-gallon waste oil UST were removed in August 1996 from the sidewalk. Product piping was removed from beneath sidewalk and former dispenser location in late 2002. No active USTs, fuel storage, or fuel distribution system currently exist onsite. Most of the building consists of an open work

area with a small enclosed office. The property is completely paved with the building constructed on a concrete slab and surrounded by concrete sidewalk and asphalt-paved rear parking area.

A commercial-residential building is adjacent to the Site on the south with address of 5916-20 College Avenue. This building contains a parking garage and a retail store (T-Mobile) on the ground floor and 12 apartments on three upper floors. To the south and east of the Site is an older single-family residential neighborhood with residence backyards adjoining the Site's rear paved parking area. The surface channel of Harwood Branch creek is located within residential backyards about one block east and up-gradient of the Site. On the west, an Alameda County Flood Control District cutoff storm water conduit (90" diameter) associated with Harwood Branch creek is located beneath College Avenue. A church and retail shopping building occur across College Avenue to the west.

The adjacent property to the north was formerly occupied by Chevron Service Station #209339 from 1938 to 1968. Former station facilities consisted of four USTs, one dispenser island, station building and a garage-service building. The station was replaced by a parking lot until redeveloped with a multi-tenant commercial-retail structure in 1978-1979 called College Square. College Square is currently occupied by a restaurant (Barclays Restaurant & Pub) and office space (5940 College Avenue). This commercial development's ground floor retail space and parking garage are approximately 3-4 feet below the grade of the subject property. Conestoga-Rovers & Associates (CRA; Emeryville, CA) and Gettler-Ryan, Inc. (GR; Dublin, CA) conducted a separate groundwater investigation of the former Chevron Station utilizing two groundwater monitoring wells (GR-MW1 & GR-MW2) to evaluate the potential contamination in groundwater. Figures 2 and 3 show the location of each CRA / Gettler-Ryan well relative to the monitor wells on the subject property.

Since April 8, 2002, CRA / Gettler-Ryan monitored and sampled each well on a biannual basis, performing their most recent monitoring and sampling event of GR-MW1 & GR-MW2 in October 2012. Golden Gate Tank Removal, Inc. and GGE conducted joint monitoring and sampling activities with CRA between October 2000 and October 2011. Chevron performed additional investigation and submitted data gap and case closure request documents in 2013-2014. In a letter dated June 13, 2014, the ACHCSA issued its *Public Participation Notification for Potential Case Closure* for the 5940 College Avenue property. Following completion of the public comment period and submittal of a monitor well decommissioning report, a uniform case closure letter will be issued for the adjoining site. The two existing monitoring wells are proposed for destruction by October 24, 2014.

Groundwater Monitoring & Sampling: April 2014

The scope of work for the 2nd Quarter 2014 groundwater monitoring and sampling event included the following:

- Monitoring, purging and sampling of field points 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

On April 14, 2014, GGE in conjunction with Dysert Environmental, Inc. (DEI) monitored and sampled wells MW-1, MW-2, MW-3 and piezometer PW-1.

Groundwater Monitoring and Sampling

Prior to purging and sampling, DEI removed the well cover and locking compression cap and allowed the water in each well column to stabilize for approximately 20 minutes. DEI then measured and recorded the depth to product/groundwater using a Keck electronic oil/water interface meter. Fluid levels were measured relative to the north side of the top of each well casing to the nearest 0.01 foot. No floating petroleum product was detected at the Site. An odor of petroleum or gasoline was noted in wells MW-1, MW-2 and MW-3. Groundwater depths ranged from 10.92 in well MW-1 to 12.34 feet below grade in well MW-2.

DEI subsequently purged groundwater from the monitor wells using a peristaltic pump (average flow rate @ 250 to 300 milliliters per minute), and simultaneously monitored and recorded the pH, temperature, and specific conductivity of the purged well water. DEI terminated well purging after evacuation of approximately 4-6 gallons of water from each well and three successive readings of each parameter varied by less than 0.1, 10%, and 3%, respectively. DEI 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 (at least 80% of initial depth to water), DEI 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 4ºC. Attachment A contains a copy of the Fluid-Level Monitoring Data Form and Well Purging/Sampling Data Sheets for this event.

Waste Management

The well purge and equipment wash and rinse water generated during this event was transferred directly to a D.O.T.-approved, 55-gallon drum, appropriately labeled and sealed, and temporarily stored onsite in a secure area pending final disposal at a licensed facility. As of the date of this report, the drum remains onsite pending future groundwater sampling activities.

Solid and liquid waste was last removed from the Site on January 15, 2014. The solid and liquid waste streams were profiled for disposal/recycling under uniform waste manifest following receipt of the laboratory analysis results of the last 2013 groundwater sampling. On January 15, 2014, Icon Environmental Services Inc. (ICON) transported the drums under Non-Hazardous Waste Manifest No. 10503 to ICON's disposal/recycling facility in Union City, California. A copy of the waste manifest is included in Appendix D of the previously submitted GGE report titled Additional Soil & Water Investigation Report dated February 6, 2014.

Water Sample Analytical Methods

On April 14, 2014, GGE submitted six 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 Method 8260TPH
- Total Petroleum Hydrocarbons (TPH) as Diesel/Motor Oil by Method SW8015B(M)
- Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) by Method SW8260B
- Methyl Tertiary Butyl Ether (MTBE), 1,2-Dibromoethane (EDB), 1,2-Dichlorooethane (EDC) by Method SW8260B
- Poly-Aromatic Hydrocarbons (PAHs) by Method SW8270C
- Volatile Organic Compounds (Full List) by Method SW8260B (PW-1 only)

Tables 1 and 2 attached presents a summary of the analytical results for the 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.

Torrent submitted their certified analytical report on April 22, 2014. Torrent completed all volatile organic analyses within the 14-day required time limit for analysis. Torrent reported that no issues were encountered with the receiving, preparation, analysis or reporting of the results associated with the submitted samples. 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.

GeoTracker Electronic Submittal

Torrent submitted 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) for each event 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 Sheet.

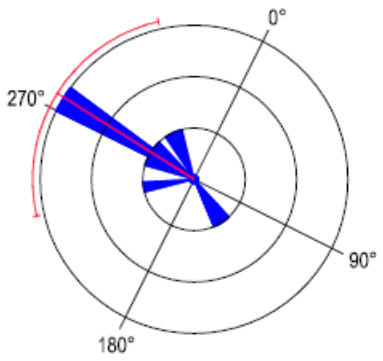
Groundwater Monitoring Results

For the April 14, 2014 event, the groundwater elevations calculated relative to the top of well casing in wells MW-1, MW-3 and PW-1 ranged between 184.15 (MW-3) and 185.03 (PW-1)

feet, as referenced to Mean Sea Level (MSL), a range of 0.88 feet. The groundwater elevation and coordinate data for each monitoring event was entered into the EPA On-Line Tools for Site Assessment Calculation, Hydraulic Gradient – Magnitude and Direction. 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. The attached Figure 4, titled Groundwater Data Diagram - April 2014 shows the groundwater data for the subject monitoring event. The EPA On-Line Tools for Site Assessment Calculation sheet is included in Attachment B.

During the April 14, 2014 monitoring event, the groundwater flow direction beneath the Site was estimated at South 18º East (162º) under a hydraulic gradient of approximately 0.025 ft/ft. The groundwater flow direction for the April 14, 2014 event is consistent with historical data for the Site with the flow direction ranging widely from south to west. The large variation in groundwater flow direction is inconsistent with previous studies at nearby former gasoline stations. The wide variation in flow direction data may be attributed to the subject monitor array consisting of few monitor wells arranged in a linear direction within the narrow site boundaries. One site well MW-2 has previously been excluded from flow direction calculations for obvious inconsistencies in groundwater elevation data.

Chevron and Conestoga-Rovers & Associates (CRA) submitted the December 11, 2012, Second Semi-Annual 2012 Groundwater Monitoring and Sampling Report for the Former Chevron Service Station 209339 at the adjoining 5940 College Avenue property. The report contains groundwater flow direction collected during joint monitoring with the subject property for a total of five monitor well field points. The accompanying rose diagram is copied from Figure 2 of the CRA report and shows the results of the joint measurement of flow direction. The resulting flow direction centered about 270º is consistent with previous groundwater investigations at nearby gas stations on College Avenue. GGE believes that this joint data best represents the actual groundwater flow direction for the subject property.

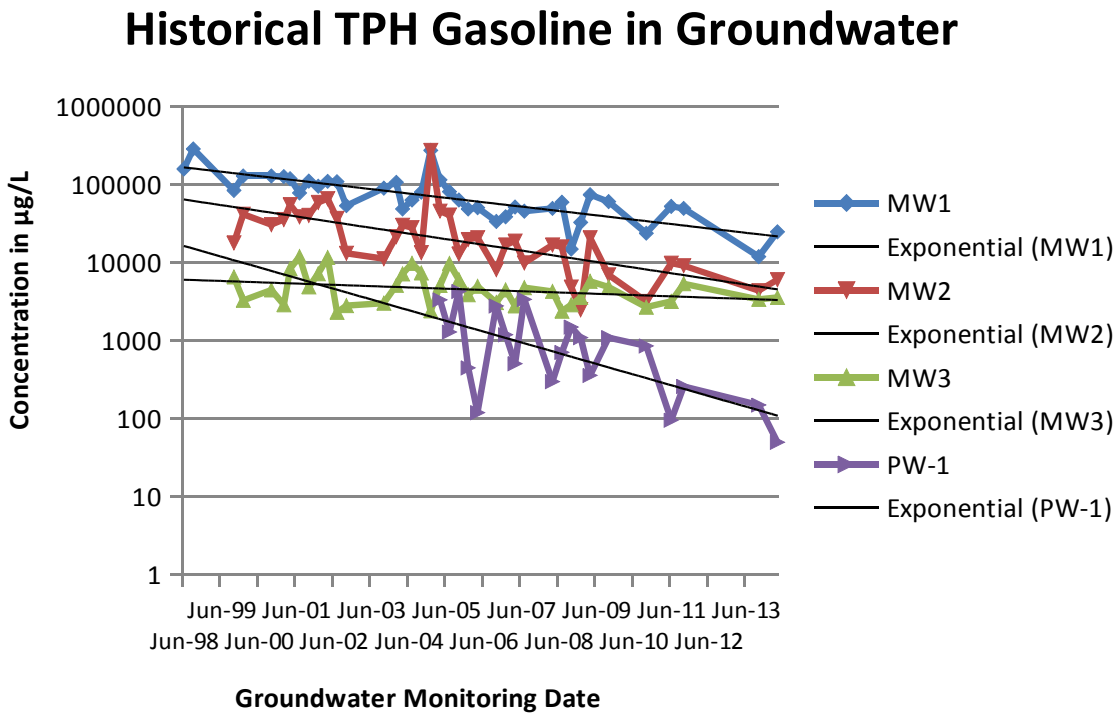


Historical Groundwater Flow Direction based on data acquired from joint monitoring with Former Sheaff's Garage

Results of Groundwater Sampling and Laboratory Analysis

The attached Tables 1 & 2 include the historical groundwater analysis results for the April 2014 event and the associated laboratory report is included in Attachment B. As shown on Table 1, the laboratory reported concentrations of TPH as gasoline ranging from <50 µg/l in piezometer PW-1 to 25,000 µg/l in well MW-1 in groundwater samples collected during the April 2014 event. Benzene concentrations ranged between <0.5 µg/l in piezometer PW-1 to 3,000 µg/l in well MW-1. As compared with the October 2013 event, the gasoline constituent concentrations increased in well MW-1 from 12,000 to 25,000 µg/l and Benzene increased from 2,400 to 3,000 µg/l. The TPH as gasoline measured in MW-2 increased slightly from 4,400 to 6,100 µg/l and in MW-3 from 3,400 to 3,600 µg/l. The laboratory reported Naphthalene at 500 µg/l in well MW-1, 86 µg/l in well MW-2, and 4 µg/l in well MW-3. No PCE was detected in monitor wells MW-1, MW-2 and MW-3.

The following chart plots gasoline concentrations in monitor wells versus time displaying an overall decreasing trend in contaminant concentrations following primary source removal in 1996. The recently measured concentrations appear consistent with the historical trend lines.



TPH as diesel was detected in MW-1 to MW-3 at concentrations of 3000, 2500 and 700 µg/l, respectively. The laboratory analytical report noted that for each TPH as diesel sample result, the chromatographic pattern does not resemble the typical diesel reference standard, and that unknown organics within the diesel range (lighter than diesel quantified as diesel) are present. TPH as motor oil was not detected in any of the monitoring wells for this event.

PCE was detected in the groundwater sample collected in well PW-1 at a concentration of 110 µg/l, increasing from the 45 µg/l concentration measured during the October 2013 event. As shown on Table 2, the recently measured PCE concentration of 110 µg/l is below the historical high value for PCE of 120 µg/l reported in April 2009. Since April 2005, PCE concentrations in well PW-1 have seasonally fluctuated between 25 and 120 µg/l. The PCE breakdown products of TCE and Cis-1,2-DCE were measured in well PW-1 at concentrations of 1.4 and 3.3 µg/l during this event. Table 2 includes a summary of the historical groundwater VOC analysis results for the April 2014 event 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, GGE, recommends continuing the groundwater monitoring and sampling program at the subject property on a semi-annual basis. 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. The next semi-annual monitoring and sampling event is tentatively scheduled at the Site in late October 2014.

Groundwater samples will continue to be analyzed for TPH as gasoline, BTEX, MTBE and Naphthalene by EPA Method SW8260B, TPH as diesel/motor oil by SW8015M, and PAHs by EPA Method SW8270C. Additionally, GGE recommends continuing analysis of the groundwater sample from PW-1 for VOCs (full list) by EPA Method 8260B to further monitor the elevated concentrations of PCE in groundwater in the vicinity of this field point.

Report Distribution

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

Mr. Mark Detterman, P.G., C.E.G.
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577 **(***1Electronic 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.

GROUNDWATER MONITORING REPORT
2nd Quarter 2014

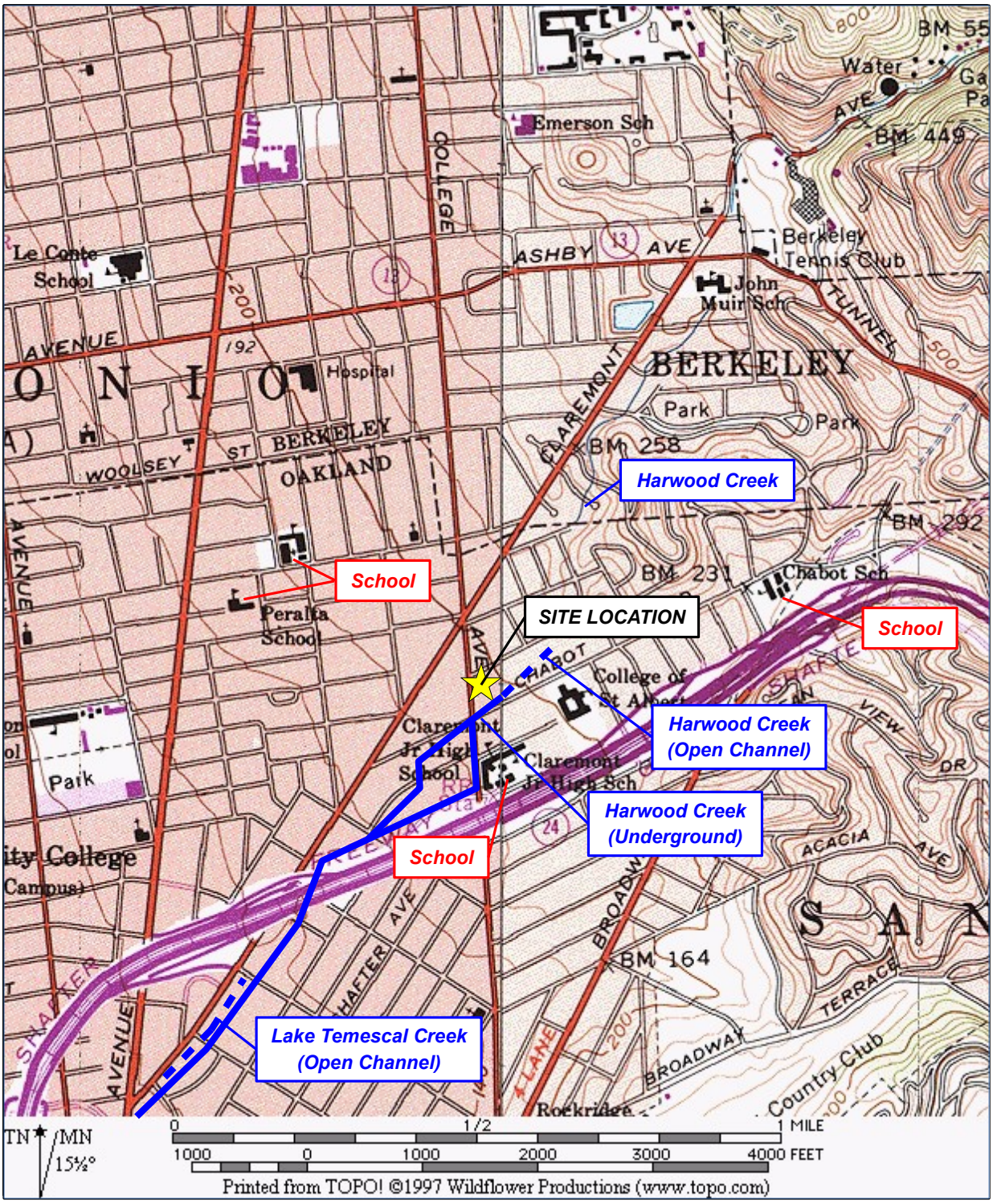
Sheaff's Garage
5930 College Avenue
Oakland, CA 94618

ACHCSA Fuel Leak Case No. RO0000377

FIGURES

Golden Gate Environmental, Inc.
1455 Yosemite Avenue, San Francisco, CA 94124

GGE Project No. 2014



GOLDEN GATE ENVIRONMENTAL, INC.
1455 Yosemite Av., San Francisco, CA 94124
Phone (415) 970-9088 Fax (415) 970-9089

SITE LOCATION MAP
5930 College Avenue, Oakland, California

GGE Project No. 2014	October 2014	***Figure 1***

Base Map from Google Maps at a scale of about 1"=100 feet with North to top of map.

GOLDEN GATE ENVIRONMENTAL, INC.
1455 Yosemite Avenue, San Francisco, CA 94124
Phone (415) 970-9088 Fax (415) 970-9089

SITE VICINITY MAP

Sheaffs Garage
5930 College Avenue, Oakland, California

GGE Project No. 2014 | revised October 2014 | **FIGURE 2**

N
W
E
S

HARWOOD AVENUE
SIDEWALK
RESIDENCE
BACKYARD
GARAGE ENTRANCE
TWO-STORY COMMERCIAL BUILDING WITH UNDERGROUND PARKING GARAGE 5940 COLLEGE AVENUE
TWO-STORY COMMERCIAL BUILDING RESTAURANTS, RETAIL AND OFFICES FORMER CHEVRON SERVICE STATION 5940 COLLEGE AVENUE
COLLEGE SQUARE
CHURCH
COURTYARD
COLLEGE AVENUE
SIDEWALK
Sump Pump
Below Grade Courtyard
GR-MW-1
GR-MW-2
HB-3
HB-4
HB-5
HB-6
B8
B1
B2
B3
B4
B5
B6
B7
B9
B10
B11
B12
B13
B14
B15
B16
B17
B18
B19
B20
B21
B22
B23
B24
B25
B26
B27
MW-1/B4
MW-2/B5
MW-3/B6
SG-1
SG-2
SG-3
SG-4
CPT-1A
CPT-1B
RESTAURANT-BAR
Approximate Location of Former Fuel Dispenser [Underlying Concrete Pad 42" x 42" Removed 8/27/02]
EX-3 @ 2.5'
EX-2 @ 3.5'
EX-1 @ 3.5'
Former Subsurface Product Line
GARAGE DOOR
PW-1 / (HB-2)
Cleanout
Oil Water Seperator
Stormwater Catch Basin
Parking Lot (Concrete Pavement)
Garage Work Area (Concrete Pavement)
HYDRAULIC HOIST
SUBJECT PROPERTY
STAUDER AUTOMOTIVE
FORMER SHEAFFS GARAGE
5930 COLLEGE AVENUE
A
A'
OFFICE
WC
CORRIDOR
SANITARY SEWER
SINK / FORMER PARTS WASHER
RESIDENCE BACKYARD
COURTYARD
OE-1
OE-2
OE-3
OE-4
OE-5
T1N
T1
T1S
T2
T2C
T1C10
UST
MULTI-TENANT COMMERCIAL/ RETAIL BUILDING
MULTI-STORY RESIDENTIAL BUILDING
GROUND FLOOR PARKING GARAGE
5916- 5920 COLLEGE AVENUE
COMMERCIAL/RETAIL BUILDING
5912 COLLEGE AVENUE

Scale in Feet
(1" = 20')
0 10 20

LEGEND

- CPT-1A — CPT Boring (GGE, Sept. 2013)
- SG-4 — Soil Gas Sample Point (GGE, August 2013)
- B25 — Soil Boring (GGE, August 2013)
- Groundwater Monitoring Well (GGTR)
- Groundwater Monitoring Well (GR)
- Soil Boring (GGTR, April 2005)
- Hydropunch Boring (GGTR, April/June 2005)
- Product Line Removal Soil Sample (GGTR, August 2002)
- Soil Boring (GGTR, May 1998 & Oct. 2000)
- UST Removal / Over-Excavation Soil Sample (GGTR, October 1996)

GOLDEN GATE ENVIRONMENTAL, INC.
1455 Yosemite Avenue, San Francisco, CA 94124
Phone (415) 970-9088 Fax (415) 970-9089

SITE PLAN

Former Sheaff's Service Garage
5930 College Avenue, Oakland, CA 94618

GGE Project No. 2014	Figure By: ed (07/08); revised baw 8/13	October 2014	**Figure 3**

N
W
E
S

HARWOOD AVENUE

Parking Garage Entrance

RESIDENCE

Former Garage & Service Building

SB-1

Former Dispenser Island

Former Chevron Service Station # 209339

Former USTs

Former Station Building

GR-MW-2

SB-3

SB-2

Reported Used Oil UST Location

COLLEGE AVENUE

COLLEGE SQUARE
RESTAURANTS AND OFFICES
5940 COLLEGE AVENUE

PL

PL

GR-MW-1

SIDEWALK

ND<50 µg/L

STORM WATER CATCH BASIN

PW-1
(185.03)

SB-4

FORMER DISPENSER

AUTOMOTIVE REPAIR GARAGE
5930 COLLEGE AVENUE

ASPHALT PARKING LOT

PL

MW-2
(184.94)

6100 µg/L

SINK & FORMER PARTS WASHER

PL

SIDEWALK

25,000 µg/L

MW-1
(184.98)

GARAGE DOOR

UST T1

UST T2

OFFICE

WC

CORRIDOR

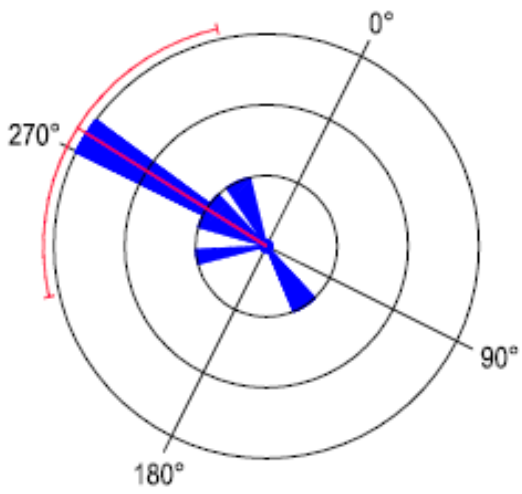
PL

RESIDENCE BACKYARDS

APARTMENT BUILDING
WITH GROUND FLOOR PARKING
5916- 5920 COLLEGE AVENUE

MW-3
(184.15)

3600 µg/L



Historical Groundwater Flow Direction based on data acquired from joint monitoring with Former Sheaff's Garage

MAP LEGEND

MW-1 (185.07)	Groundwater Monitoring Well & Elevation in Feet Above MSL (GGE, 04/14/2014)
GR-MW-1	Groundwater Monitoring Well Gettler-Ryan
25,000 µg/L	Concentrations in ug/L TPH as gasoline
µg/L	Micrograms per liter
	Approx. Limit of Former UST Excavation
PL	Property Line

Scale in Feet
(1" = 20')

0 10 20

Rose Diagram copied from Figure 2 of Conestoga-Rovers & Associates report dated December 11, 2012 - see accompanying report text for explanation.

GOLDEN GATE ENVIRONMENTAL, INC.
3730 Mission Street, San Francisco, CA 94110
Phone (415) 970-9088 Fax (415) 970-9089

GROUNDWATER DATA DIAGRAM

Sample Date: April 14, 2014

Sheaffs Service Garage
5930 College Avenue, Oakland, CA 94618

GGE Project No. 2014 | *October 2014* | **Figure 4**

GROUNDWATER MONITORING REPORT
2nd Quarter 2014

Sheaff's Garage
5930 College Avenue
Oakland, CA 94618

ACHCSA Fuel Leak Case No. RO0000377

TABLES

Golden Gate Environmental, Inc.
1455 Yosemite Avenue, San Francisco, CA 94124

GGE Project No. 2014

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)	TPH-D (ug/L)	MTBE (ug/L)	BTEX (ug/L)	Naphthalene (ug/L)
MW-1	6/1/98	50.00 *	4.81	45.19	slight sheen	160000	NA	1900	28000 / 21000 / 3800 / 21000	NA
	9/10/98	50.00 *	7.5	42.5	Odor	290000	NA	440	<50 / 25000 / 7100 / 32000	NA
	10/7/99	50.00 *	10.04	39.96	Odor	85000	NA	1100	20000 / 13000 / 3800 / 17000	NA
	1/26/00	50.00 *	8.26	41.74	slight sheen	130000	NA	470	25000 / 18000 / 4500 / 22000	NA
	10/25/00	50.00 *	10.1	39.9	Odor	130000	NA	1300	23000 / 12000 / 3900 / 18000	NA
	2/2/01	50.00 *	9.61	40.39	Odor	128000	NA	780	19000 / 11000 / 3800 / 18000	NA
	4/25/01	195.9	7.39	188.51	Odor	120000	NA	900	21000 / 13000 / 390 / 18000	NA
	7/10/01		9.72	186.18	Odor	79000	NA	660	15000 / 7800 / 3000 / 15000	NA
	10/8/01		10.88	185.02	Odor/sheen	112000	NA	374	25300 / 11800 / 4280 / 20600	NA
	1/7/02		4.34	191.56	Odor	96100	NA	596	21100 / 13500 / 4160 / 21900	NA
	4/8/02		6.84	189.06	slight odor	111000	NA	679	21200 / 13400 / 4230 / 21000	NA
	7/9/02		9.4	186.5	slight odor	110000	NA	570	20300 / 13300 / 4060 / 19800	NA
	10/23/02		11.04	184.86	None	54100	NA	1010 (1080)**	10800 / 3870 / 2320 / 9440	NA
	10/15/03		10.8	185.1	None	90700	NA	724	17800 / 4740 / 3150 / 13900	NA
	2/2/04		7.35	188.55	None	108000	NA	194	14200 / 7420 / 3450 / 19800	NA
	4/23/04		6.83	189.07	slight odor	49200	NA	114	7910 / 1480 / 1810 / 10100	NA
	7/19/04		8.95	186.95	Odor	63900	NA	303	7260 /2270 / 2510 / 10100	NA
	10/22/04		10.15	185.75	None	80700	NA	493 (296)**	13900 / 1670 / 3550 / 15200	NA
	1/21/05		5.45	190.45	Odor	278000	NA	271 (174)**	14700 / 25300 / 10800 / 73500	NA
	4/14/05		5.3	190.6	Odor /sheen	116000	NA	366 (410)**	15100 / 7080 / 4220 / 20700	NA
	7/26/05		7.6	188.3	Odor	82000	NA	ND<250	12000 / 4500 / 3300 / 14000	NA
	10/14/05		9.58	186.32	Odor/sheen	64000	NA	ND<250	13000 / 5700 / 3400 / 16000	NA
	1/13/06		4.6	191.3	Odor/sheen	49000	NA	ND<250	12000 / 5300 / 3500 / 17000	NA
	4/14/06		3.08	192.82	Odor	51000	NA	270	14000 / 5300 / 3500 / 17000	NA
	10/26/06		9.22	186.68	Odor	34000	NA	ND<250	12000 / 1600 / 3100 / 8600	NA
	1/30/07		9.6	186.3	Odor	39000	NA	ND<200	10000 / 2200 / 2900 / 10000	NA
	4/13/07		9.24	186.66	NM	52000	NA	150	9100 / 2600 / 3100 / 11000	NA
	7/24/07		10.67	185.23	None	46000	NA	240	10000 / 1200 / 3500 / 6200	NA
	4/21/08		7.24	188.66	None	50000	NA	ND<100	7800 / 1500 / 3000 / 12000	NA
	7/22/08		9.71	186.19	Odor	60000	NA	470 [1]	8100 / 1500 / 2700 / 9800	NA
	10/21/08		11.63	184.27	Odor	15000	NA	110	4900 / 430 / 1900 / 2260	NA
	1/19/09		10.91	184.99	Odor/Sheen	33000	NA	143	8830/837/2160/3880	NA
	4/27/09		7.7	188.2	Odor	75000	NA	53	8500/2100/2300/11000	NA
	10/27/09		9.34	186.56	Odor	61000	NA	75	8300/1500/2600/7900	NA
	10/14/10		10.3	185.6	Clear/Odor	24000 [2]	NA	220	8100/820/2200/4400	NA
	6/9/11		6.38	189.5	Clear/Odor	53000	NA	NA	14000/3000/3800/16900	NA
	10/7/11		9.08	186.82	None	50000 [2]	NA	89	9200/1500/4200/13500	NA
	10/16/13		10.83	185.07	Clear	12000 [2]	NA	ND<21	2400/330/1500/2780	NA
	4/4/14		**10.92**	**184.98**	**Clear**	**25000 [6]**	**3000 [7,8]**	**ND<21**	**3000/480/2100/6700**	**500 [9]**
SF Bay RWQCB December 2013 ESL						**500**	**640**	**1800**	**27 / 130 / 43 / 100**	**24**

Table & Notes Following

TABLE 1 (Cont.)

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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)	TPH-D (ug/L)	MTBE (ug/L)	BTEX (ug/L)	Naphthalene (ug/L)
MW-2	10/7/99	51.42*	11.49	39.93	slight/odor	18000	NA	490	3000 / 1700 / 1000 / 3900	NA
	1/26/00	51.42*	7.85	43.57	None	42000	NA	560	9300 / 2200 / 2300 / 7700	NA
	10/25/00	51.42*	11.57	39.85	slight/odor	31000	NA	500	5500 / 370 / 1700 / 2600	NA
	2/2/01	51.42*	10.77	40.65	Odor	36000	NA	400	4300 / 530 / 1800 / 4500	NA
	4/25/01	197.28	8.52	188.76	Odor	56000	NA	460	6700 / 1700 / 2600 / 8200	NA
	7/10/01		11.05	186.23	Odor	39000	NA	180	6200 / 730 / 2300 / 6100	NA
	10/8/01		12.79	184.49	Odor/sheen	40700	NA	6460	6310 / 399 / 2100 / 5320	NA
	1/7/02		4.92	192.36	Odor	59600	NA	366**	10300 / 3250 / 4180 / 14400	NA
	4/8/02		8.4	188.88	slight odor	66700	NA	583**	10200 / 2670 / 3840 / 13200	NA
	7/9/02		10.55	186.73	slight odor	37100	NA	303 (298)**	5340 / 890 / 2110 / 6920	NA
	10/23/02		13.85	183.43	None	13300	NA	322 (360)**	2420 / 216 / 922 / 1470	NA
	10/15/03		12.38	184.9	None	11300	NA	264 (322)**	2660 / 51 / 1180 / 1220	NA
	2/2/04		8.8	188.48	None	21700	NA	168 (200)**	2130 / 51 / 1030 / 2060	NA
	4/23/04		8.4	188.88	Slight odor	30400	NA	112 (203)**	3570 / 322 / 1620 / 4140	NA
	7/19/04		10.3	186.98	Odor	28300	NA	283 (373)**	2540 / 239 /1320 / 2300	NA
	10/22/04		10.25	187.03	Mod odor	13500	NA	273 (229)**	1790 / 54 / 892 / 915	NA
	1/21/05		6.65	190.63	Mod odor	278000	NA	161 (163)**	5980 / 1030 / 2890 / 9070	NA
	4/14/05		8.7	188.58	None	46100	NA	155 (150)**	5170 / 787 / 2530 / 6010	NA
	7/26/05		8.95	188.33	Mod odor	41000	NA	ND (ND)**	5600 / 550 / 2600 / 4600	NA
	10/14/05		10.92	186.36	Odor/sheen	13000	NA	130	2900 / 100 / 1300 / 1200	NA
	1/13/06		5.48	191.8	Odor	20000	NA	ND<100	4900 / 490 / 2400 / 4200	NA
	4/14/06		3.61	193.67	Odor	21000	NA	ND<100	4000 / 740 / 2300 / 5100	NA
	10/26/06		10.58	186.7	Odor	8200	NA	68	1400 / 51 / 840 / 500	NA
	1/30/07		10.98	186.3	Odor	17000	NA	62	3200 / 150 / 2200 / 1800	NA
	4/13/07		10.54	186.74	NM	19000	NA	57	2000 / 85 / 1300 / 1100	NA
	7/24/07		12.04	185.24	None	10000	NA	84	1300 / 41 / 710 / 270	NA
	4/21/08		8.01	189.27	None	17000	NA	48	1800 / 100 / 1400 / 1300	NA
	7/22/08		11.12	186.16	None	16000	NA	100 [1]	1900 / 98 / 1600 / 741	NA
	10/21/08		13.11	184.17	Odor/sheen	4900	NA	65	700 / 20 / 370 / 52	NA
	1/19/09		12.31	184.97	Odor	2500	NA	90	167/8.49/114/50.3	NA
	4/27/09		9.01	188.27	Odor/sheen	21000	NA	ND<0.5	1700/130/1100/1800	NA
	10/27/09		10.52	186.76	Odor	7000	NA	ND<0.5***	510/19/330/160	NA
	10/14/2010		11.56	185.72	None	3200 [2]	NA	35	460/16/230/110	NA
	6/9/2011		7.67	189.61	Clear/Odor	9900	NA	NA	1900/75/1100/1013	NA
	10/7/2011		10.42	186.86	Clear/Odor	9200 [4]	NA	ND<22	810/34/610/100	NA
	10/16/2013		12.18	185.1	Clear/Odor	4400 [2,5]	NA	ND<4.2	780/33/200/39.8	NA
	4/14/2014		**12.34**	**184.94**	**Clear/Odor**	**6100** [2]	**2500** [7,8]	**ND<2.1**	**530/270/19/47.6**	**86** [9]
SF Bay RWQCB December 2013 ESL						**500**	**640**	**1800**	**27 / 130 / 43 / 100**	**24**

Table & Notes Following

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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)	TPH-D (ug/L)	MTBE (ug/L)	BTEX (ug/L)	Naphthalene (ug/L)
MW-3	10/7/99	49.39*	9.67	39.72	None	6600	NA	390	310 / 110 / 430 / 1000	NA
	1/26/00	49.39*	5.4	43.99	None	3300	NA	40	110 / 8 / 100 / 32	NA
	10/25/00	49.39*	9.24	40.15	Slight odor	4500	NA	ND	100 / 2 / 120 / 130	NA
	2/2/01	49.39*	8.73	40.66	Slight odor	2900	NA	35	35 / 3 / 160 / 298	NA
	4/25/01	195.22	6.61	188.61	Slight odor	8400	NA	56	260 / 33 / 290 / 510	NA
	7/10/01		8.85	186.37	Slight odor	12000	NA	35	39 / 10 / 690 / 1600	NA
	10/8/01		9.75	185.47	Odor/sheen	4913	NA	52	108 / 4 / 99 / 133	NA
	1/7/02		4.25	190.97	Odor/sheen	7260	NA	81.7**	723 / 138 / 492 / 887	NA
	4/8/02		6.33	188.89	Odor	11700	NA	ND**	540 / 108 / 706 / 1710	NA
	7/9/02		8.56	186.66	Odor	2320	NA	28.3 (20)**	37.1 / 4.7 / 98.5 / 187	NA
	10/23/02		10.02	185.2	Odor/sheen	2830	NA	ND (ND)**	46.8 / 4.7 / 43.6 / 65.5	NA
	10/15/03		9.8	185.42	Odor/sheen	3040	NA	ND (ND)**	91.3 / 8.4 / 69.9 / 148	NA
	2/2/04		6.85	188.37	Odor/sheen	5140	NA	ND (ND)**	126 / 8.7 / 134 / 238	NA
	4/23/04		6.17	189.05	None	7210	NA	ND (ND)**	227 / 39.5 / 448 / 879	NA
	7/19/04		8.25	186.97	Slight odor	9860	NA	ND (ND)**	20.4 / 3.2 / 30.6 / 117	NA
	10/22/04		9.25	185.97	None	7420	NA	96 (21)**	152 / 12.8 / 267 / 480	NA
	1/21/05		5.22	190	Slight odor	2420	NA	ND (ND)**	111 / 11.4 / 139 / 265	NA
	4/14/05		6.64	188.58	Odor/sheen	5130	NA	54 (41.4)**	357 / 19.4 / 287 / 510	NA
	7/26/05		6.9	188.32	None	9800	NA	ND (21)**	200 / 23 / 220 / 360	NA
	10/14/05		8.83	186.39	Odor/sheen	6100	NA	ND	76 / 19 / 170 / 350	NA
	1/13/06		4.61	190.61	Odor	3900	NA	24	380 / 17 / 230 / 300	NA
	4/14/06		3.41	191.81	Odor	5000	NA	69	760 / 44 / 230 / 190	NA
	10/26/06		8.57	186.65	Odor	3100	NA	17	120 /9.8 /55 / 54	NA
	1/30/07		8.83	186.39	Odor	4500	NA	ND<10	90 /7.6 / 75 / 44	NA
	4/13/07		8.57	186.65	NM	2800	NA	ND<5	55 / 4.9 / 19 / 6.1	NA
	7/24/07		9.98	185.24	None	4800	NA	ND<5	140 / 8.3 / 66 / 22	NA
	4/21/08		9.3	185.92	None	4300	NA	ND<5	200 / 11 / 30 / 14	NA
	7/22/08		9.05	186.17	None	2400	NA	53 [1]	140 / 13 / 26 / 18.5	NA
	10/21/08		11.12	184.1	Slight Odor	2900	NA	2.2	170 / 9.2 / 99 / 25.8	NA
	1/19/09		10.29	184.93	Odor	3600	NA	ND<0.5	148/6.73/24.5/22.1	NA
	4/27/09		7.15	188.07	Odor/sheen	5800	NA	8.8	370/12/82/84	NA
	10/27/09		8.96	186.26	Odor	4900 [2]	NA	ND<0.5***	130/8.5/89/130	NA
	10/14/2010		9.76	185.46	None	2700 [2]	NA	ND<4.4	270/11/290/399.2	NA
	6/9/2011		5.92	189.3	Clear/Odor	3200 [2]	NA	NA	220/ND<4.4/37/20	NA
	10/7/2011		8.6	186.62	None	5400 [2]	NA	ND<4.4	140/7.0/160/67	NA
	10/16/2013		10.56	184.66	Lt. Gray/Odor	3400 [2]	NA	ND<4.2	990/58/75/71	NA
	4/14/2014		**11.07**	**184.15**	**Clear**	**3600 [2]**	**700 [7,8]**	**ND<1.1**	**400/22/24/13.3**	**4.0 [9]**
SF Bay RWQCB December 2013 ESL						**500**	**640**	**1800**	**27 / 130 / 43 / 100**	**24**

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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)	TPH-D (ug/L)	MTBE (ug/L)	BTEX (ug/L)	Naphthalene (ug/L)
PW-1	4/14/05	197.17	6.4	190.77	None	3360	NA	ND (ND**)	62.8 / 6.7 / 79.5/ 317	NA
	7/26/05		8.63	188.54	None	1300	NA	ND (ND**)	22 / ND / 48 / 110	NA
	10/14/05		10.71	186.46	None	4300	NA	ND	93 /1.2 / 100 / 140	NA
	1/13/06		4.87	192.3	None	450	NA	ND<2.0	10 / ND / 37 / 72	NA
	4/14/06		2.27	194.9	Odor	120	NA	ND<2.0	2.3 / ND<1.0 / 3.5 /9.3	NA
	10/26/06		10.3	186.87	Odor	2800	NA	ND<10	61 / ND<5.0 / 130 / 34	NA
	1/30/07		10.8	186.37	Odor	1200	NA	ND<2	22 / ND<1.0 / 100 / 200	NA
	4/13/07		10.31	186.86	NM	510	NA	ND<1	6 / ND<0.5 / 30 / 56	NA
	7/24/07		11.81	185.36	None	3400	NA	ND<5	63 / ND<2.5 / 180 / 5.6	NA
	4/21/08		9.08	188.09	None	300	NA	ND<1	3 / ND<0.5 / 16 / 26	NA
	7/22/08		9.83	187.34	None	710	NA	3.1 [1]	9.3 / 1.2 [1] / 49 / 67.86	NA
	10/21/08		12.9	184.27	None	1500 [2]	NA	1	20 / ND<0.5 / 57 / 20	NA
	1/19/09		12.11	185.06	Odor/sheen	1100 [2]	NA	ND<0.5	12.3/ND<0.5/30.8/9.20	NA
	4/27/2009		8.69	188.48	None	360 [3]	NA	ND<0.5	2.7/ND<0.5/12/18	NA
	10/27/2009		10.32	186.85	None	1100 [2]	NA	ND<0.5	12/ND<0.5/36/34	NA
	10/14/2010		11.38	185.79	None	860 [3]	NA	ND<0.5	8.8/.55/44/44	NA
	6/9/2011		7.43	189.74	None	96 [3]	NA	ND<0.5	ND<0.5/ND<0.5/3.1/2.5	NA
	10/7/2011		9.79	187.38	None	260 [5]	NA	ND<0.5	ND<0.5/ND<0.5/5.9/4.5	NA
	10/16/2013		11.91	185.26	Clear	150 [2,5]	NA	ND<0.5	0.87/ND<0.5/ND<0.5/ND≤1.0	NA
	4/14/2014		**12.14**	**185.03**	**Clear**	**ND<50**	**ND<0.1 [8]**	**ND<0.5**	**ND<0.5/ND<0.5/ND<0.5/ND≤1.0**	**ND<0.5 [9]**
SF Bay RWQCB December 2013 ESL						**500**	**640**	**1800**	**27 / 130 / 43 / 100**	**24**

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

[4] = Result is elevated due to contribution from heavy end hydrocarbons within C5-C12 range quantified as gasoline

[5] = Result is elevated due to contribution from heavy end hydrocarbons and discrete peak of non-fuel compound within C5-C12 range quantified as gasoline

[6] = Reported TPH value includes amount due to discrete peak (See 8260B results - elevated aromatic compounds)

[7] = Chromatographic pattern does not resemble typical diesel reference standard; unkown organics within diesel range lighter than diesel quantified as diesel.

[8] = Sample also analyzed for TPH as Motor Oil (EPA Method SW8015B); Result ND (See Lab Report)

[9] = Sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method SW8270C; See Lab Report for Sample Results

* = 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)

SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening Level at a residential or commercial/industrial use permitted sites with groundwater that Is Not 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
	6/9/11	0.55	1.7	0.98	3.7	ND<0.5	ND<0.5	ND<1.0	0.85	ND<5.0	1.4	ND<0.5	86
	10/7/11	0.79	1.8	0.99	3.8	ND<0.5	0.68	1.2	0.63	ND<5.0	2	ND<0.5	76
	10/16/13	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	2.7	ND<5.0	12	ND<0.5	45
	4/14/14	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<1.0**	**1.4**	**ND<5.0**	**3.3**	**ND<0.5**	**110**
SF Bay RWQCB ESL		**NC**	**NC**	**NC**	**NC**	**NC**	**NC**	**24**	**130**	**2200**	**590**	**1.8**	**63**

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
SF Bay RWQCB/ESL = San Francisco Bay Regional Water Quality Control Board's Interim Final - December 2013, Environmental Screening Level at a residential or commercial/industrial use permitted sites with groundwater that Is Not a potential source of drinking water.

GROUNDWATER MONITORING REPORT
2nd Quarter 2014

Sheaff's Garage
5930 College Avenue
Oakland, CA 94618

ACHCSA Fuel Leak Case No. RO0000377

ATTACHMENT A

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

FLUID-LEVEL MONITORING DATA

Project Number: GGE- 2014 / DEI- 7228 Date: 4/14/2014

Project/Site Location: 5930 College Ave Oakland CA

Technician: Kian Atkinson Method: Electronic

Boring/ Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Well Diameter (in.)	Comments
MW-1	10.92	NONE DETECTED	N/A	14.65	2	@ 1028 (9/16)
MW-2	12.34	NONE DETECTED	N/A	19.60	2	@ 1025 (9/16)
MW-3	11.07	NONE DETECTED	N/A	18.95	2	@ 1021 (9/16)
PW-1	12.14	NONE DETECTED	N/A	19.75	2	@ 1017 (9/16)

Measurement referenced to top of well casing. NORTH

Dysert Environmental, Inc

Well Purging/Sampling Data

WELL NUMBER: PW-1

DATE: 4/14/2014

PROJECT / GLOBAL ID: GGE- 2014 / T0600102112

SITE LOCATION: 5930 College Ave

CITY: Oakland **STATE:** CA

PURGE DEVICE

circle one submersible pump (peristaltic pump) bladder pump disposable bailer

SAMPLING DEVICE

circle one submersible pump (peristaltic pump) bladder pump disposable bailer

sing diameter (inches)	*circle one*	0.75	(2)	4	6
sing volumes (gallons)	*circle one*	0.02	(0.2)	0.7	1.52

WELL DATA

SAMPLER/S: K. ATKINSON

WELL NUMBER / FIELD POINT ID: PW-1

A. TOTAL WELL DEPTH: 19.75

B. DEPTH TO WATER: 12.14

C. WATER HEIGHT (A-B): 7.61

D. WELL CASING DIAMETER: 2

E. CASING VOLUME: .2

F. SINGLE CASE VOLUME (CxE): 1.52

G. CASE VOLUME (S) (CxEx 3): 4.56

H: 80% RECHARGE LEVEL (F+B): 13.66

PURGE DATA

START TIME: 1035

PUMP DEPTH: 15'

FINISH TIME: 1117

PUMP DEPTH: 15'

SAMPLE TIME

DEPTH TO WATER: 12.71 **TIME MEASURED:** 1117

SAMPLE APPEARANCE / ODOR: CLEAR, NO ODOR

TOTAL GALLONS PURGED: ~6 GALS

WELL FLUID PARAMETERS

Casing Vol.	0.0	0.5	1.0	1.5	2.0	2.5	3.0
pH	6.79	6.79	6.75	6.76	6.74	6.72	6.72
TEMP in °C	16.5	16.5	16.5	16.6	16.6	16.6	16.6
COND / SC us/cm	878	872	867	865	870	864	865
DO mg/L / DO %	1.59/16.4	1.45/15.1	1.40/14.8	1.41/14.9	1.27/12.9	1.16/12.1	1.10/11.3
ORP	68	68	69	69	69	70	72
DTW	12.14	12.20	12.39	12.45	12.57	12.62	12.78
Pump Depth	15'	→	→	→	→	→	→
Pump Rate	250mL/min	→	→	→	→	→	→

Dysert Environmental, Inc

Well Purging/Sampling Data

WELL NUMBER: MW-1

DATE: 4/14/2014

PROJECT / GLOBAL ID: GGE- 2014 / T0600102112

SITE LOCATION: 5930 College Ave

CITY: Oakland **STATE:** CA

PURGE DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

sing diameter (inches)	*circle one*	0.75	2	4	6
sing volumes (gallons)	*circle one*	0.02	0.2	0.7	1.52

WELL DATA

SAMPLER/S: KIAN ASLANIAN

WELL NUMBER / FIELD POINT ID: MW-1

A. TOTAL WELL DEPTH: 14.65

B. DEPTH TO WATER: 10.92

C. WATER HEIGHT (A-B): 3.73

D. WELL CASING DIAMETER: 2

E. CASING VOLUME: .2

F. SINGLE CASE VOLUME (CxE): .75

G. CASE VOLUME (S) (CxEx 3): 2.25

H: 80% RECHARGE LEVEL (F+B): 11.67

PURGE DATA

START TIME: 1315

PUMP DEPTH: 13'

FINISH TIME: 1353

PUMP DEPTH: 13'

SAMPLE TIME

DEPTH TO WATER: 11.35 **TIME MEASURED:** 1353

SAMPLE APPEARANCE / ODOR: CLR/ STRONG PETRO ODOR

TOTAL GALLONS PURGED: 4 GALS

WELL FLUID PARAMETERS

Casing Vol.	0.0	0.5	1.0	1.5	2.0	2.5	3.0
pH	8.05	8.04	8.04	8.03	8.03	8.02	8.02
TEMP in °C	17.3	17.3	17.3	17.3	17.3	17.3	17.3
COND / SC us/cm	777	776	776	776	776	774	775
DO mg/L / DO %	.71 / 7.3	.70 / 7.3	.69 / 7.2	.69 / 7.2	.67 / 7.0	.67 / 7.0	.66 / 6.9
ORP	-97	-98	-100	-100	-99	-99	-99
DTW	11.01	11.05	11.17	11.25	11.31	11.35	11.39
Pump Depth	13'	→	→	→	→	→	→
Pump Rate	250ML/MIN	→	→	→	→	→	→

Dysert Environmental, Inc

Well Purging/Sampling Data

WELL NUMBER: MW-2

DATE: 4/14/2014

PROJECT / GLOBAL ID: GGE- 2014 / T0600102112

SITE LOCATION: 5930 College Ave

CITY: Oakland **STATE:** CA

PURGE DEVICE

circle one submersible pump (peristaltic pump) bladder pump disposable bailer

SAMPLING DEVICE

circle one submersible pump (peristaltic pump) bladder pump disposable bailer

sing diameter (inches)	*circle one*	0.75	(2)	4	6
sing volumes (gallons)	*circle one*	0.02	(0.2)	0.7	1.52

WELL DATA

SAMPLER/S: KIAN ATLINGSONN

WELL NUMBER / FIELD POINT ID: MW-2

A. TOTAL WELL DEPTH: 19.60

B. DEPTH TO WATER: 12.34

C. WATER HEIGHT (A-B): 7.26

D. WELL CASING DIAMETER: 2

E. CASING VOLUME: .2

F. SINGLE CASE VOLUME (CxE): 1.45

G. CASE VOLUME (S) (CxEx 3): 4.35

H: 80% RECHARGE LEVEL (F+B): 13.79

PURGE DATA

START TIME: 1225

PUMP DEPTH: 15'

FINISH TIME: 1307

PUMP DEPTH: 15'

SAMPLE TIME

DEPTH TO WATER: 12.50 **TIME MEASURED:** 1307

SAMPLE APPEARANCE / ODOR: CLEAR/ STRONG GAS ODOR

TOTAL GALLONS PURGED: 16 GALS

WELL FLUID PARAMETERS

Casing Vol.	0.0	0.5	1.0	1.5	2.0	2.5	3.0
pH	7.32	7.31	7.31	7.31	7.30	7.30	7.30
TEMP in °C	18.0	18.0	18.0	18.0	18.0	18.0	18.0
COND / SC us/cm	1278	1277	1277	1277	1277	1278	1277
DO mg/L / DO %	.45/4.3	.44/4.6	.43/4.5	.42/4.5	.41/4.4	.40/4.3	.40/4.3
ORP	-74	-74	-74	-76	-76	-76	-76
DTW	12.37	12.42	12.45	12.50	12.52	12.57	12.61
Pump Depth	15'	→					
Pump Rate	250mls/min	→					

Dysert Environmental, Inc

Well Purging/Sampling Data

WELL NUMBER: MW-3

DATE: 4/14/2014

PROJECT / GLOBAL ID: GGE- 2014 / T0600102112

SITE LOCATION: 5930 College Ave

CITY: Oakland **STATE:** CA

PURGE DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

SAMPLING DEVICE

circle one submersible pump peristaltic pump bladder pump disposable bailer

sing diameter (inches)	*circle one*	0.75	2	4	6
sing volumes (gallons)	*circle one*	0.02	0.2	0.7	1.52

WELL DATA

SAMPLER/S: KIAN ATKINSON

WELL NUMBER / FIELD POINT ID: MW-3

A. TOTAL WELL DEPTH: 18.95

B. DEPTH TO WATER: 11.07

C. WATER HEIGHT (A-B): 7.88

D. WELL CASING DIAMETER: 2

E. CASING VOLUME: .2

F. SINGLE CASE VOLUME (CxE): 1.58

G. CASE VOLUME (S) (CxEx 3): 4.74

H: 80% RECHARGE LEVEL (F+B): 12.65

PURGE DATA

START TIME: 1125

PUMP DEPTH: 15'

FINISH TIME: 1203

PUMP DEPTH: 15'

SAMPLE TIME

DEPTH TO WATER: 11.12 **TIME MEASURED:** 1203

SAMPLE APPEARANCE / ODOR: CLR / SLT GAS ODOR

TOTAL GALLONS PURGED: ~6 GALS

WELL FLUID PARAMETERS

Casing Vol.	0.0	0.5	1.0	1.5	2.0	2.5	3.0
pH	7.23	7.22	7.22	7.21	7.21	7.20	7.20
TEMP in °C	16.9	17.1	17.0	16.9	16.8	16.7	16.7
COND / SC us/cm	1635	1635	1636	1636	1636	1636	1636
DO mg/L / DO %	.66 / 6.8	.59 / 6.1	.55 / 5.7	.52 / 5.3	.48 / 5.0	.47 / 4.9	.46 / 4.7
ORP	-78	-83	-85	-87	-88	-89	-93
DTW	11.11	11.12	11.12	11.12	11.12	11.14	11.14
Pump Depth	15'	→	→	→	→	→	→
Pump Rate	300 mls/min	→	→	→	→	→	→

GROUNDWATER MONITORING REPORT
2nd Quarter 2014

Sheaff's Garage
5930 College Avenue
Oakland, CA 94618

ACHCSA Fuel Leak Case No. RO0000377

ATTACHMENT B

Laboratory Certificates of Analysis
Chain of Custody Record
GeoTracker Upload Confirmation Sheets
EPA On-Line Tools for Site Assessment Calculation Sheet

Golden Gate Environmental, Inc
1455 Yosemite Avenue
San Francisco, California 94124
Tel: (415) 686-8846 cell

RE: 5930 College Avenue, Oakland

Work Order No.: 1404105

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 4 sample(s) on April 15, 2014 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
QA Officer

April 22, 2014
Date

Date: 4/22/2014

Client: Golden Gate Environmental, Inc

Project: 5930 College Avenue, Oakland

Work Order: 1404105

CASE NARRATIVE

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

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comment for S_8270PAH, Note:The % recovery for 2,4-Dinitrotoluene in the LCS and/or LCSD is outside of laboratory control limits (high bias). All samples were Non Detect for those compounds associated with the LCS/LCSD. No corrective action is required.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

MW-1 1404105-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Benzene	SW8260B	42	3.7	21	3000	ug/L
Toluene	SW8260B	42	2.5	21	480	ug/L
Ethyl Benzene	SW8260B	42	3.1	21	2100	ug/L
m,p-Xylene	SW8260B	42	5.6	42	5200	ug/L
o-Xylene	SW8260B	42	3.2	21	1500	ug/L
Naphthalene	SW8260B	42	5.7	42	500	ug/L
TPH as Gasoline	8260TPH	42	1300	2100	25000	ug/L
2-Methylnaphthalene	SW8270C	10	9.3	40	86	ug/L
1-Methylnaphthalene	SW8270C	10	9.3	40	60	ug/L
TPH as Diesel	SW8015B(M)	4	0.160	0.40	3.0	mg/L
Naphthalene	SW8270C	25	26	100	390	ug/L

MW-2 1404105-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Benzene	SW8260B	4.2	0.37	2.1	530	ug/L
Toluene	SW8260B	4.2	0.25	2.1	19	ug/L
Ethyl Benzene	SW8260B	4.2	0.31	2.1	270	ug/L
m,p-Xylene	SW8260B	4.2	0.56	4.2	42	ug/L
o-Xylene	SW8260B	4.2	0.32	2.1	5.6	ug/L
Naphthalene	SW8260B	4.2	0.57	4.2	86	ug/L
TPH as Gasoline	8260TPH	42	1300	2100	6100	ug/L
Naphthalene	SW8270C	10	10	40	55	ug/L
2-Methylnaphthalene	SW8270C	10	9.3	40	110	ug/L
1-Methylnaphthalene	SW8270C	10	9.3	40	74	ug/L
TPH as Diesel	SW8015B(M)	2	0.0800	0.20	2.5	mg/L

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

MW-3 1404105-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
Toluene	SW8260B	2.1	0.12	1.1	22	ug/L
Ethyl Benzene	SW8260B	2.1	0.16	1.1	24	ug/L
m,p-Xylene	SW8260B	2.1	0.28	2.1	12	ug/L
o-Xylene	SW8260B	2.1	0.16	1.1	1.3	ug/L
Naphthalene	SW8260B	2.1	0.28	2.1	4.0	ug/L
TPH as Gasoline	8260TPH	8.4	260	420	3600	ug/L
Benzene	SW8260B	8.4	0.73	4.2	400	ug/L
1-Methylnaphthalene	SW8270C	1	0.93	4.0	13	ug/L
TPH as Diesel	SW8015B(M)	1	0.0400	0.10	0.70	mg/L

PW-1 1404105-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
cis-1,2-Dichloroethene	SW8260B	1	0.19	0.50	3.3	ug/L
Trichloroethylene	SW8260B	1	0.13	0.50	1.4	ug/L
Tetrachloroethylene	SW8260B	1	0.14	0.50	110	ug/L

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	MW-1	**Lab Sample ID:**	1404105-001A
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 13:53		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	04/15/14	42	7.2	21	ND		ug/L	420158	NA
tert-Butanol	SW8260B	NA	04/15/14	42	65	210	ND		ug/L	420158	NA
Benzene	SW8260B	NA	04/15/14	42	3.7	21	3000		ug/L	420158	NA
1,2-Dichloroethane	SW8260B	NA	04/15/14	42	4.7	21	ND		ug/L	420158	NA
Toluene	SW8260B	NA	04/15/14	42	2.5	21	480		ug/L	420158	NA
1,2-Dibromoethane	SW8260B	NA	04/15/14	42	2.8	21	ND		ug/L	420158	NA
Ethyl Benzene	SW8260B	NA	04/15/14	42	3.1	21	2100		ug/L	420158	NA
m,p-Xylene	SW8260B	NA	04/15/14	42	5.6	42	5200		ug/L	420158	NA
o-Xylene	SW8260B	NA	04/15/14	42	3.2	21	1500		ug/L	420158	NA
Naphthalene	SW8260B	NA	04/15/14	42	5.7	42	500		ug/L	420158	NA
(S) Dibromofluoromethane	SW8260B	NA	04/15/14	42	61.2	131	82.8		%	420158	NA
(S) Toluene-d8	SW8260B	NA	04/15/14	42	75.1	127	86.4		%	420158	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	04/15/14	42	64.1	120	90.1		%	420158	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	4/15/14	04/15/14	42	1300	2100	25000		ug/L	420158	11317
(S) 4-Bromofluorobenzene	8260TPH	4/15/14	04/15/14	42	41.5	125	66.8		%	420158	11317

NOTE: Reported TPH value includes amount due to discrete peak (see 8260B results - elevated aromatic compounds).

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	MW-1	**Lab Sample ID:**	1404105-001B
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 13:53		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
2-Methylnaphthalene	SW8270C	4/21/14	04/21/14	10	9.3	40	86		ug/L	420256	11378
1-Methylnaphthalene	SW8270C	4/21/14	04/21/14	10	9.3	40	60		ug/L	420256	11378
Acenaphthylene	SW8270C	4/21/14	04/21/14	10	6.1	40	ND		ug/L	420256	11378
Acenaphthene	SW8270C	4/21/14	04/21/14	10	6.1	40	ND		ug/L	420256	11378
Fluorene	SW8270C	4/21/14	04/21/14	10	6.0	40	ND		ug/L	420256	11378
Phenanthrene	SW8270C	4/21/14	04/21/14	10	4.5	40	ND		ug/L	420256	11378
Anthracene	SW8270C	4/21/14	04/21/14	10	5.0	40	ND		ug/L	420256	11378
Fluoranthene	SW8270C	4/21/14	04/21/14	10	4.3	40	ND		ug/L	420256	11378
Pyrene	SW8270C	4/21/14	04/21/14	10	4.6	40	ND		ug/L	420256	11378
Benz[a]anthracene	SW8270C	4/21/14	04/21/14	10	4.4	40	ND		ug/L	420256	11378
Chrysene	SW8270C	4/21/14	04/21/14	10	6.4	40	ND		ug/L	420256	11378
Benzo[b]fluoranthene	SW8270C	4/21/14	04/21/14	10	12	40	ND		ug/L	420256	11378
Benzo[k]fluoranthene	SW8270C	4/21/14	04/21/14	10	21	40	ND		ug/L	420256	11378
Benzo[a]pyrene	SW8270C	4/21/14	04/21/14	10	2.8	40	ND		ug/L	420256	11378
Indeno[1,2,3-cd]pyrene	SW8270C	4/21/14	04/21/14	10	5.5	40	ND		ug/L	420256	11378
Dibenz[a,h]anthracene	SW8270C	4/21/14	04/21/14	10	14	40	ND		ug/L	420256	11378
Benzo[g,h,i]perylene	SW8270C	4/21/14	04/21/14	10	5.0	40	ND		ug/L	420256	11378
2-Fluorobiphenyl (S)	SW8270C	4/21/14	04/21/14	10	41.4	120	70.2		%	420256	11378
p-Terphenyl-d14 (S)	SW8270C	4/21/14	04/21/14	10	35.3	135	90.5		%	420256	11378

NOTE: Reporting limits increased due to matrix interference

The results shown below are reported using their MDL.											
Naphthalene	SW8270C	4/21/14	04/21/14	25	26	100	390		ug/L	420256	11378

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	4/19/14	04/19/14	4	0.160	0.40	3.0	x	mg/L	420247	11371
TPH as Motor Oil	SW8015B(M)	4/19/14	04/19/14	4	0.360	1.6	ND		mg/L	420247	11371
Pentacosane (S)	SW8015B(M)	4/19/14	04/19/14	4	57.9	123	91.0		%	420247	11371

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	MW-2	**Lab Sample ID:**	1404105-002A
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 13:07		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	04/16/14	4.2	0.72	2.1	ND		ug/L	420189	NA
tert-Butanol	SW8260B	NA	04/16/14	4.2	6.5	21	ND		ug/L	420189	NA
Benzene	SW8260B	NA	04/16/14	4.2	0.37	2.1	530		ug/L	420189	NA
1,2-Dichloroethane	SW8260B	NA	04/16/14	4.2	0.47	2.1	ND		ug/L	420189	NA
Toluene	SW8260B	NA	04/16/14	4.2	0.25	2.1	19		ug/L	420189	NA
1,2-Dibromoethane	SW8260B	NA	04/16/14	4.2	0.28	2.1	ND		ug/L	420189	NA
Ethyl Benzene	SW8260B	NA	04/16/14	4.2	0.31	2.1	270		ug/L	420189	NA
m,p-Xylene	SW8260B	NA	04/16/14	4.2	0.56	4.2	42		ug/L	420189	NA
o-Xylene	SW8260B	NA	04/16/14	4.2	0.32	2.1	5.6		ug/L	420189	NA
Naphthalene	SW8260B	NA	04/16/14	4.2	0.57	4.2	86		ug/L	420189	NA
(S) Dibromofluoromethane	SW8260B	NA	04/16/14	4.2	61.2	131	83.0		%	420189	NA
(S) Toluene-d8	SW8260B	NA	04/16/14	4.2	75.1	127	85.5		%	420189	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	04/16/14	4.2	64.1	120	92.3		%	420189	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	4/15/14	04/15/14	42	1300	2100	6100	x	ug/L	420158	11317
(S) 4-Bromofluorobenzene	8260TPH	4/15/14	04/15/14	42	41.5	125	70.5		%	420158	11317

NOTE: x - Although TPH as Gasoline constituents are present, sample chromatogram does not resemble pattern of reference Gasoline standard.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	MW-2	**Lab Sample ID:**	1404105-002B
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 13:07		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
Naphthalene	SW8270C	4/21/14	04/21/14	10	10	40	55		ug/L	420256	11378
2-Methylnaphthalene	SW8270C	4/21/14	04/21/14	10	9.3	40	110		ug/L	420256	11378
1-Methylnaphthalene	SW8270C	4/21/14	04/21/14	10	9.3	40	74		ug/L	420256	11378
Acenaphthylene	SW8270C	4/21/14	04/21/14	10	6.1	40	ND		ug/L	420256	11378
Acenaphthene	SW8270C	4/21/14	04/21/14	10	6.1	40	ND		ug/L	420256	11378
Fluorene	SW8270C	4/21/14	04/21/14	10	6.0	40	ND		ug/L	420256	11378
Phenanthrene	SW8270C	4/21/14	04/21/14	10	4.5	40	ND		ug/L	420256	11378
Anthracene	SW8270C	4/21/14	04/21/14	10	5.0	40	ND		ug/L	420256	11378
Fluoranthene	SW8270C	4/21/14	04/21/14	10	4.3	40	ND		ug/L	420256	11378
Pyrene	SW8270C	4/21/14	04/21/14	10	4.6	40	ND		ug/L	420256	11378
Benz[a]anthracene	SW8270C	4/21/14	04/21/14	10	4.4	40	ND		ug/L	420256	11378
Chrysene	SW8270C	4/21/14	04/21/14	10	6.4	40	ND		ug/L	420256	11378
Benzo[b]fluoranthene	SW8270C	4/21/14	04/21/14	10	12	40	ND		ug/L	420256	11378
Benzo[k]fluoranthene	SW8270C	4/21/14	04/21/14	10	21	40	ND		ug/L	420256	11378
Benzo[a]pyrene	SW8270C	4/21/14	04/21/14	10	2.8	40	ND		ug/L	420256	11378
Indeno[1,2,3-cd]pyrene	SW8270C	4/21/14	04/21/14	10	5.5	40	ND		ug/L	420256	11378
Dibenz[a,h]anthracene	SW8270C	4/21/14	04/21/14	10	14	40	ND		ug/L	420256	11378
Benzo[g,h,i]perylene	SW8270C	4/21/14	04/21/14	10	5.0	40	ND		ug/L	420256	11378
2-Fluorobiphenyl (S)	SW8270C	4/21/14	04/21/14	10	41.4	120	73.2		%	420256	11378
p-Terphenyl-d14 (S)	SW8270C	4/21/14	04/21/14	10	35.3	135	92.2		%	420256	11378

NOTE: Reporting limits increased due to matrix interference

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	4/19/14	04/19/14	2	0.0800	0.20	2.5	x	mg/L	420247	11371
TPH as Motor Oil	SW8015B(M)	4/19/14	04/19/14	2	0.180	0.80	ND		mg/L	420247	11371
Pentacosane (S)	SW8015B(M)	4/19/14	04/19/14	2	57.9	123	88.5		%	420247	11371

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	MW-3	**Lab Sample ID:**	1404105-003A
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 12:03		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	04/16/14	2.1	0.36	1.1	ND		ug/L	420189	NA
tert-Butanol	SW8260B	NA	04/16/14	2.1	3.2	11	ND		ug/L	420189	NA
1,2-Dichloroethane	SW8260B	NA	04/16/14	2.1	0.24	1.1	ND		ug/L	420189	NA
Toluene	SW8260B	NA	04/16/14	2.1	0.12	1.1	22		ug/L	420189	NA
1,2-Dibromoethane	SW8260B	NA	04/16/14	2.1	0.14	1.1	ND		ug/L	420189	NA
Ethyl Benzene	SW8260B	NA	04/16/14	2.1	0.16	1.1	24		ug/L	420189	NA
m,p-Xylene	SW8260B	NA	04/16/14	2.1	0.28	2.1	12		ug/L	420189	NA
o-Xylene	SW8260B	NA	04/16/14	2.1	0.16	1.1	1.3		ug/L	420189	NA
Naphthalene	SW8260B	NA	04/16/14	2.1	0.28	2.1	4.0		ug/L	420189	NA
(S) Dibromofluoromethane	SW8260B	NA	04/16/14	2.1	61.2	131	82.9		%	420189	NA
(S) Toluene-d8	SW8260B	NA	04/16/14	2.1	75.1	127	89.2		%	420189	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	04/16/14	2.1	64.1	120	90.9		%	420189	NA
Benzene	SW8260B	NA	04/15/14	8.4	0.73	4.2	400		ug/L	420158	NA
(S) Dibromofluoromethane	SW8260B	NA	04/15/14	8.4	61.2	131	87.0		%	420158	NA
(S) Toluene-d8	SW8260B	NA	04/15/14	8.4	75.1	127	90.0		%	420158	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	04/15/14	8.4	64.1	120	95.3		%	420158	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	4/15/14	04/15/14	8.4	260	420	3600	x	ug/L	420158	11317
(S) 4-Bromofluorobenzene	8260TPH	4/15/14	04/15/14	8.4	41.5	125	71.1		%	420158	11317

NOTE: x - Although TPH as Gasoline constituents are present, sample chromatogram does not resemble pattern of reference Gasoline standard.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	MW-3	**Lab Sample ID:**	1404105-003B
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 12:03		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	4/21/14	04/21/14	1	1.0	4.0	ND		ug/L	420256	11378
2-Methylnaphthalene	SW8270C	4/21/14	04/21/14	1	0.93	4.0	ND		ug/L	420256	11378
1-Methylnaphthalene	SW8270C	4/21/14	04/21/14	1	0.93	4.0	13		ug/L	420256	11378
Acenaphthylene	SW8270C	4/21/14	04/21/14	1	0.61	4.0	ND		ug/L	420256	11378
Acenaphthene	SW8270C	4/21/14	04/21/14	1	0.61	4.0	ND		ug/L	420256	11378
Fluorene	SW8270C	4/21/14	04/21/14	1	0.60	4.0	ND		ug/L	420256	11378
Phenanthrene	SW8270C	4/21/14	04/21/14	1	0.45	4.0	ND		ug/L	420256	11378
Anthracene	SW8270C	4/21/14	04/21/14	1	0.50	4.0	ND		ug/L	420256	11378
Fluoranthene	SW8270C	4/21/14	04/21/14	1	0.43	4.0	ND		ug/L	420256	11378
Pyrene	SW8270C	4/21/14	04/21/14	1	0.46	4.0	ND		ug/L	420256	11378
Benz[a]anthracene	SW8270C	4/21/14	04/21/14	1	0.44	4.0	ND		ug/L	420256	11378
Chrysene	SW8270C	4/21/14	04/21/14	1	0.64	4.0	ND		ug/L	420256	11378
Benzo[b]fluoranthene	SW8270C	4/21/14	04/21/14	1	1.2	4.0	ND		ug/L	420256	11378
Benzo[k]fluoranthene	SW8270C	4/21/14	04/21/14	1	2.1	4.0	ND		ug/L	420256	11378
Benzo[a]pyrene	SW8270C	4/21/14	04/21/14	1	0.28	4.0	ND		ug/L	420256	11378
Indeno[1,2,3-cd]pyrene	SW8270C	4/21/14	04/21/14	1	0.55	4.0	ND		ug/L	420256	11378
Dibenz[a,h]anthracene	SW8270C	4/21/14	04/21/14	1	1.4	4.0	ND		ug/L	420256	11378
Benzo[g,h,i]perylene	SW8270C	4/21/14	04/21/14	1	0.50	4.0	ND		ug/L	420256	11378
2-Fluorobiphenyl (S)	SW8270C	4/21/14	04/21/14	1	41.4	120	94.6		%	420256	11378
p-Terphenyl-d14 (S)	SW8270C	4/21/14	04/21/14	1	35.3	135	111		%	420256	11378

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	4/19/14	04/19/14	1	0.0400	0.10	0.70	x	mg/L	420247	11371
TPH as Motor Oil	SW8015B(M)	4/19/14	04/19/14	1	0.0900	0.40	ND		mg/L	420247	11371
Pentacosane (S)	SW8015B(M)	4/19/14	04/19/14	1	57.9	123	93.5		%	420247	11371

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range lighter than diesel quantified as diesel.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	PW-1	**Lab Sample ID:**	1404105-004A
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 11:17		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	04/15/14	1	0.18	0.50	ND		ug/L	420158	NA
Chloromethane	SW8260B	NA	04/15/14	1	0.16	0.50	ND		ug/L	420158	NA
Vinyl Chloride	SW8260B	NA	04/15/14	1	0.16	0.50	ND		ug/L	420158	NA
Bromomethane	SW8260B	NA	04/15/14	1	0.18	0.50	ND		ug/L	420158	NA
Trichlorofluoromethane	SW8260B	NA	04/15/14	1	0.18	0.50	ND		ug/L	420158	NA
1,1-Dichloroethene	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
Freon 113	SW8260B	NA	04/15/14	1	0.19	0.50	ND		ug/L	420158	NA
Methylene Chloride	SW8260B	NA	04/15/14	1	0.23	5.0	ND		ug/L	420158	NA
trans-1,2-Dichloroethene	SW8260B	NA	04/15/14	1	0.19	0.50	ND		ug/L	420158	NA
MTBE	SW8260B	NA	04/15/14	1	0.17	0.50	ND		ug/L	420158	NA
tert-Butanol	SW8260B	NA	04/15/14	1	1.5	5.0	ND		ug/L	420158	NA
Diisopropyl ether (DIPE)	SW8260B	NA	04/15/14	1	0.13	0.50	ND		ug/L	420158	NA
1,1-Dichloroethane	SW8260B	NA	04/15/14	1	0.13	0.50	ND		ug/L	420158	NA
ETBE	SW8260B	NA	04/15/14	1	0.17	0.50	ND		ug/L	420158	NA
cis-1,2-Dichloroethene	SW8260B	NA	04/15/14	1	0.19	0.50	3.3		ug/L	420158	NA
2,2-Dichloropropane	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
Bromochloromethane	SW8260B	NA	04/15/14	1	0.20	0.50	ND		ug/L	420158	NA
Chloroform	SW8260B	NA	04/15/14	1	0.13	0.50	ND		ug/L	420158	NA
Carbon Tetrachloride	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
1,1,1-Trichloroethane	SW8260B	NA	04/15/14	1	0.097	0.50	ND		ug/L	420158	NA
1,1-Dichloropropene	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
Benzene	SW8260B	NA	04/15/14	1	0.13	0.50	ND		ug/L	420158	NA
TAME	SW8260B	NA	04/15/14	1	0.17	0.50	ND		ug/L	420158	NA
1,2-Dichloroethane	SW8260B	NA	04/15/14	1	0.14	0.50	ND		ug/L	420158	NA
Trichloroethylene	SW8260B	NA	04/15/14	1	0.13	0.50	1.4		ug/L	420158	NA
Dibromomethane	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
1,2-Dichloropropane	SW8260B	NA	04/15/14	1	0.17	0.50	ND		ug/L	420158	NA
Bromodichloromethane	SW8260B	NA	04/15/14	1	0.13	0.50	ND		ug/L	420158	NA
cis-1,3-Dichloropropene	SW8260B	NA	04/15/14	1	0.096	0.50	ND		ug/L	420158	NA
Toluene	SW8260B	NA	04/15/14	1	0.14	0.50	ND		ug/L	420158	NA
Tetrachloroethylene	SW8260B	NA	04/15/14	1	0.14	0.50	110		ug/L	420158	NA
trans-1,3-Dichloropropene	SW8260B	NA	04/15/14	1	0.23	0.50	ND		ug/L	420158	NA
1,1,2-Trichloroethane	SW8260B	NA	04/15/14	1	0.14	0.50	ND		ug/L	420158	NA
Dibromochloromethane	SW8260B	NA	04/15/14	1	0.096	0.50	ND		ug/L	420158	NA
1,3-Dichloropropane	SW8260B	NA	04/15/14	1	0.10	0.50	ND		ug/L	420158	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	PW-1	**Lab Sample ID:**	1404105-004A
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 11:17		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
1,2-Dibromoethane	SW8260B	NA	04/15/14	1	0.19	0.50	ND		ug/L	420158	NA
Chlorobenzene	SW8260B	NA	04/15/14	1	0.14	0.50	ND		ug/L	420158	NA
Ethyl Benzene	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	04/15/14	1	0.096	0.50	ND		ug/L	420158	NA
m,p-Xylene	SW8260B	NA	04/15/14	1	0.13	1.0	ND		ug/L	420158	NA
o-Xylene	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
Styrene	SW8260B	NA	04/15/14	1	0.21	0.50	ND		ug/L	420158	NA
Bromoform	SW8260B	NA	04/15/14	1	0.21	1.0	ND		ug/L	420158	NA
Isopropyl Benzene	SW8260B	NA	04/15/14	1	0.097	0.50	ND		ug/L	420158	NA
Bromobenzene	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	04/15/14	1	0.11	0.50	ND		ug/L	420158	NA
n-Propylbenzene	SW8260B	NA	04/15/14	1	0.078	0.50	ND		ug/L	420158	NA
2-Chlorotoluene	SW8260B	NA	04/15/14	1	0.076	0.50	ND		ug/L	420158	NA
1,3,5-Trimethylbenzene	SW8260B	NA	04/15/14	1	0.074	0.50	ND		ug/L	420158	NA
4-Chlorotoluene	SW8260B	NA	04/15/14	1	0.088	0.50	ND		ug/L	420158	NA
tert-Butylbenzene	SW8260B	NA	04/15/14	1	0.081	0.50	ND		ug/L	420158	NA
1,2,3-Trichloropropane	SW8260B	NA	04/15/14	1	0.14	0.50	ND		ug/L	420158	NA
1,2,4-Trimethylbenzene	SW8260B	NA	04/15/14	1	0.083	0.50	ND		ug/L	420158	NA
sec-Butyl Benzene	SW8260B	NA	04/15/14	1	0.092	0.50	ND		ug/L	420158	NA
p-Isopropyltoluene	SW8260B	NA	04/15/14	1	0.093	0.50	ND		ug/L	420158	NA
1,3-Dichlorobenzene	SW8260B	NA	04/15/14	1	0.10	0.50	ND		ug/L	420158	NA
1,4-Dichlorobenzene	SW8260B	NA	04/15/14	1	0.069	0.50	ND		ug/L	420158	NA
n-Butylbenzene	SW8260B	NA	04/15/14	1	0.081	0.50	ND		ug/L	420158	NA
1,2-Dichlorobenzene	SW8260B	NA	04/15/14	1	0.057	0.50	ND		ug/L	420158	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	04/15/14	1	0.15	0.50	ND		ug/L	420158	NA
Hexachlorobutadiene	SW8260B	NA	04/15/14	1	0.19	0.50	ND		ug/L	420158	NA
1,2,4-Trichlorobenzene	SW8260B	NA	04/15/14	1	0.12	0.50	ND		ug/L	420158	NA
Naphthalene	SW8260B	NA	04/15/14	1	0.14	1.0	ND		ug/L	420158	NA
1,2,3-Trichlorobenzene	SW8260B	NA	04/15/14	1	0.23	0.50	ND		ug/L	420158	NA
(S) Dibromofluoromethane	SW8260B	NA	04/15/14	1	61.2	131	87.1		%	420158	NA
(S) Toluene-d8	SW8260B	NA	04/15/14	1	75.1	127	91.5		%	420158	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	04/15/14	1	64.1	120	92.1		%	420158	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	PW-1	**Lab Sample ID:**	1404105-004A
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 11:17		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	4/15/14	04/15/14	1	31	50	ND		ug/L	420158	11317
(S) 4-Bromofluorobenzene	8260TPH	4/15/14	04/15/14	1	41.5	125	67.7		%	420158	11317

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Brent Wheeler
Golden Gate Environmental, Inc

Date Received: 04/15/14
Date Reported: 04/22/14

Client Sample ID:	PW-1	**Lab Sample ID:**	1404105-004B
Project Name/Location:	5930 College Avenue, Oakland	**Sample Matrix:**	Groundwater
Project Number:			
Date/Time Sampled:	04/14/14 / 11:17		
Tag Number:	5930 College Avenue		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	SW8270C	4/21/14	04/21/14	1	1.0	4.0	ND		ug/L	420256	11378
2-Methylnaphthalene	SW8270C	4/21/14	04/21/14	1	0.93	4.0	ND		ug/L	420256	11378
1-Methylnaphthalene	SW8270C	4/21/14	04/21/14	1	0.93	4.0	ND		ug/L	420256	11378
Acenaphthylene	SW8270C	4/21/14	04/21/14	1	0.61	4.0	ND		ug/L	420256	11378
Acenaphthene	SW8270C	4/21/14	04/21/14	1	0.61	4.0	ND		ug/L	420256	11378
Fluorene	SW8270C	4/21/14	04/21/14	1	0.60	4.0	ND		ug/L	420256	11378
Phenanthrene	SW8270C	4/21/14	04/21/14	1	0.45	4.0	ND		ug/L	420256	11378
Anthracene	SW8270C	4/21/14	04/21/14	1	0.50	4.0	ND		ug/L	420256	11378
Fluoranthene	SW8270C	4/21/14	04/21/14	1	0.43	4.0	ND		ug/L	420256	11378
Pyrene	SW8270C	4/21/14	04/21/14	1	0.46	4.0	ND		ug/L	420256	11378
Benz[a]anthracene	SW8270C	4/21/14	04/21/14	1	0.44	4.0	ND		ug/L	420256	11378
Chrysene	SW8270C	4/21/14	04/21/14	1	0.64	4.0	ND		ug/L	420256	11378
Benzo[b]fluoranthene	SW8270C	4/21/14	04/21/14	1	1.2	4.0	ND		ug/L	420256	11378
Benzo[k]fluoranthene	SW8270C	4/21/14	04/21/14	1	2.1	4.0	ND		ug/L	420256	11378
Benzo[a]pyrene	SW8270C	4/21/14	04/21/14	1	0.28	4.0	ND		ug/L	420256	11378
Indeno[1,2,3-cd]pyrene	SW8270C	4/21/14	04/21/14	1	0.55	4.0	ND		ug/L	420256	11378
Dibenz[a,h]anthracene	SW8270C	4/21/14	04/21/14	1	1.4	4.0	ND		ug/L	420256	11378
Benzo[g,h,i]perylene	SW8270C	4/21/14	04/21/14	1	0.50	4.0	ND		ug/L	420256	11378
2-Fluorobiphenyl (S)	SW8270C	4/21/14	04/21/14	1	41.4	120	76.4		%	420256	11378
p-Terphenyl-d14 (S)	SW8270C	4/21/14	04/21/14	1	35.3	135	117		%	420256	11378

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel	SW8015B(M)	4/19/14	04/19/14	1	0.0400	0.10	ND		mg/L	420247	11371
TPH as Motor Oil	SW8015B(M)	4/19/14	04/19/14	1	0.0900	0.40	ND		mg/L	420247	11371
Pentacosane (S)	SW8015B(M)	4/19/14	04/19/14	1	57.9	123	62.2		%	420247	11371

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1404105	**Prep Method:**	5030	**Prep Date:**	04/15/14	**Prep Batch:**	11317
Matrix:	Water	**Analytical Method:**	8260TPH	**Analyzed Date:**	04/15/14	**Analytical Batch:**	420158
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	31	50	ND	
(S) 4-Bromofluorobenzene			74.1	

Work Order:	1404105	**Prep Method:**	5030	**Prep Date:**	04/16/14	**Prep Batch:**	11336
Matrix:	Water	**Analytical Method:**	8260TPH	**Analyzed Date:**	04/16/14	**Analytical Batch:**	420189
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline	31	50	ND	
(S) 4-Bromofluorobenzene			53.5	

Work Order:	1404105	**Prep Method:**	3510_TPH	**Prep Date:**	04/19/14	**Prep Batch:**	11371
Matrix:	Water	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	04/19/14	**Analytical Batch:**	420247
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	
TPH as Motor Oil	0.0920	0.40	ND	
Pentacosane (S)			97.3	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1404105	**Prep Method:**	3510_BNA	**Prep Date:**	04/21/14	**Prep Batch:**	11378
Matrix:	Water	**Analytical Method:**	SW8270C	**Analyzed Date:**	04/21/14	**Analytical Batch:**	420256
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Pyridine	2.0	4.0	ND		
N-Nitrosdimethylamine	0.75	4.0	ND		
Aniline	1.2	4.0	ND		
Phenol	0.96	4.0	ND		
Bis(2-chloroethyl) ether	1.1	4.0	ND		
2-Chlorophenol	1.3	4.0	ND		
1,3-Dichlorobenzene	0.99	4.0	ND		
1,4-Dichlorobenzene	1.3	4.0	ND		
Benzyl Alcohol	1.3	8.0	ND		
1,2-Dichlorobenzene	1.1	4.0	ND		
2-Methylphenol (o-Cresol)	1.4	4.0	ND		
Bis(2-chloroisopropyl)ether	1.4	4.0	ND		
3-/4-Methylphenol (p-/m-Cresol)	1.3	4.0	ND		
N-nitroso-di-n-propylamine	1.4	4.0	ND		
Hexachloroethane	1.3	4.0	ND		
Nitrobenzene	1.1	4.0	ND		
Isophorone	1.3	4.0	ND		
2-Nitrophenol	0.91	20	ND		
2,4-Dimethylphenol	0.091	4.0	ND		
Benzoic Acid	7.0	20	ND		
Bis(2-Chloroethoxy)methane	1.2	4.0	ND		
2,4-Dichlorophenol	1.0	4.0	ND		
1,2,4-Trichlorobenzene	0.95	4.0	ND		
2,6-Dichlorophenol	1.0	4.0	ND		
Naphthalene	1.0	4.0	ND		
4-Chloroaniline	0.94	8.0	ND		
Hexachloro-1,3-butadiene	0.88	4.0	ND		
4-Chloro-3-methylphenol	0.79	4.0	ND		
2-Methylnaphthalene	0.93	4.0	ND		
1-Methylnaphthalene	0.93	4.0	ND		
Hexachlorocyclopentadiene	0.36	20	ND		
2,4,6-Trichlorophenol	0.85	4.0	ND		
2,4,5-Trichlorophenol	0.85	4.0	ND		
2-Chloronaphthalene	1.0	4.0	ND		
2-Nitroaniline	0.43	20	ND		
1,4-Dinitrobenzene	0.50	4.0	ND		
Dimethyl phthalate	0.44	4.0	ND		
1,3-Dinitrobenzene	0.092	4.0	ND		
Acenaphthylene	0.61	4.0	ND		
2,6-Dinitrotoluene	0.44	4.0	ND		
1,2-Dinitrobenzene	0.50	4.0	ND		

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1404105	**Prep Method:**	3510_BNA	**Prep Date:**	04/21/14	**Prep Batch:**	11378
Matrix:	Water	**Analytical Method:**	SW8270C	**Analyzed Date:**	04/21/14	**Analytical Batch:**	420256
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
3-Nitroaniline	0.83	20	ND		
Acenaphthene	0.61	4.0	ND		
2,4-Dinitrophenol	0.057	10	ND		
4-Nitrophenol	1.4	4.0	ND		
Dibenzofuran	0.75	4.0	ND		
2,4-Dinitrotoluene	0.49	4.0	ND		
2,3,5,6-Tetrachlorophenol	0.30	4.0	ND		
2,3,4,6-Tetrachlorophenol	0.25	4.0	ND		
Diethylphthalate	0.74	4.0	ND		
Fluorene	0.60	4.0	ND		
4-Chlorophenyl phenyl ether	0.63	4.0	ND		
4-Nitroaniline	0.21	20	ND		
4,6-Dinitro-2-methylphenol	0.78	20	ND		
Diphenylamine	0.62	4.0	ND		
Azobenzene	0.62	4.0	ND		
4-Bromophenyl phenyl ether	0.93	4.0	ND		
Hexachlorobenzene	0.65	4.0	ND		
Pentachlorophenol	0.25	4.0	ND		
Phenanthrene	0.45	4.0	ND		
Anthracene	0.50	4.0	ND		
Carbazole	0.50	4.0	ND		
Di-n-butylphthalate	0.42	4.0	0.43		
Fluoranthene	0.43	4.0	ND		
Benzidine	0.12	20	ND		
Pyrene	0.46	4.0	ND		
Benzyl butyl phthalate	0.41	4.0	ND		
Benz[a]anthracene	0.44	4.0	ND		
3,3'-Dichlorobenzidine	0.30	8.0	ND		
Chrysene	0.64	4.0	ND		
Bis(2-Ethylhexyl)phthalate	0.34	4.0	ND		
Di-n-octyl phthalate	0.41	4.0	ND		
Benzo[b]fluoranthene	1.2	4.0	ND		
Benzo[k]fluoranthene	2.1	4.0	ND		
Benzo[a]pyrene	0.28	4.0	ND		
Indeno[1,2,3-cd]pyrene	0.55	4.0	ND		
Dibenz[a,h]anthracene	1.4	4.0	ND		
Benzo[g,h,i]perylene	0.50	4.0	ND		
Phenol-d6 (S)			51.1		
2-Fluorophenol (S)			150	S	
2,4,6-Tribromophenol (S)			67.0		
Nitrobenzene-d5 (S)			94.4		

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1404105	**Prep Method:**	3510_BNA	**Prep Date:**	04/21/14	**Prep Batch:**	11378
Matrix:	Water	**Analytical Method:**	SW8270C	**Analyzed Date:**	04/21/14	**Analytical Batch:**	420256
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
2-Fluorobiphenyl (S)			100		
p-Terphenyl-d14 (S)			121		

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1404105	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	04/15/14	**Analytical Batch:**	420158
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.18	0.50	ND		
Chloromethane	0.16	0.50	ND		
Vinyl Chloride	0.16	0.50	ND		
Bromomethane	0.18	0.50	ND		
Trichlorofluoromethane	0.18	0.50	ND		
1,1-Dichloroethene	0.15	0.50	ND		
Freon 113	0.19	0.50	ND		
Methylene Chloride	0.23	5.0	ND		
trans-1,2-Dichloroethene	0.19	0.50	ND		
MTBE	0.17	0.50	ND		
tert-Butanol	1.5	5.0	ND		
Diisopropyl ether (DIPE)	0.13	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.17	0.50	ND		
cis-1,2-Dichloroethene	0.19	0.50	ND		
2,2-Dichloropropane	0.15	0.50	ND		
Bromochloromethane	0.20	0.50	ND		
Chloroform	0.13	0.50	ND		
Carbon Tetrachloride	0.15	0.50	ND		
1,1,1-Trichloroethane	0.097	0.50	ND		
1,1-Dichloropropene	0.15	0.50	ND		
Benzene	0.13	0.50	ND		
TAME	0.17	0.50	ND		
1,2-Dichloroethane	0.14	0.50	ND		
Trichloroethylene	0.13	0.50	ND		
Dibromomethane	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.13	0.50	ND		
cis-1,3-Dichloropropene	0.096	0.50	ND		
Toluene	0.14	0.50	ND		
Tetrachloroethylene	0.14	0.50	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
1,1,2-Trichloroethane	0.14	0.50	ND		
Dibromochloromethane	0.096	0.50	ND		
1,3-Dichloropropane	0.10	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	0.096	0.50	ND		
m,p-Xylene	0.13	1.0	ND		
o-Xylene	0.15	0.50	ND		

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1404105	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	04/15/14	**Analytical Batch:**	420158
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.21	0.50	ND		
Bromoform	0.21	1.0	ND		
Isopropyl Benzene	0.097	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.11	0.50	ND		
n-Propylbenzene	0.078	0.50	ND		
2-Chlorotoluene	0.076	0.50	ND		
1,3,5,-Trimethylbenzene	0.074	0.50	ND		
4-Chlorotoluene	0.088	0.50	ND		
tert-Butylbenzene	0.081	0.50	ND		
1,2,3-Trichloropropane	0.14	0.50	ND		
1,2,4-Trimethylbenzene	0.083	0.50	ND		
sec-Butyl Benzene	0.092	0.50	ND		
p-Isopropyltoluene	0.093	0.50	ND		
1,3-Dichlorobenzene	0.10	0.50	ND		
1,4-Dichlorobenzene	0.069	0.50	ND		
n-Butylbenzene	0.081	0.50	ND		
1,2-Dichlorobenzene	0.057	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.15	0.50	ND		
Hexachlorobutadiene	0.19	0.50	0.26		
1,2,4-Trichlorobenzene	0.12	0.50	0.14		
Naphthalene	0.14	1.0	0.29		
1,2,3-Trichlorobenzene	0.23	0.50	0.33		
(S) Dibromofluoromethane			86.8		
(S) Toluene-d8			92.1		
(S) 4-Bromofluorobenzene			96.3		
Ethanol	0.21	0.50	ND	TIC	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1404105	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	04/16/14	**Analytical Batch:**	420189
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.18	0.50	ND	
Chloromethane	0.16	0.50	ND	
Vinyl Chloride	0.16	0.50	ND	
Bromomethane	0.18	0.50	ND	
Trichlorofluoromethane	0.18	0.50	ND	
1,1-Dichloroethene	0.15	0.50	ND	
Freon 113	0.19	0.50	ND	
Methylene Chloride	0.23	5.0	ND	
trans-1,2-Dichloroethene	0.19	0.50	ND	
MTBE	0.17	0.50	ND	
tert-Butanol	1.5	5.0	ND	
Diisopropyl ether (DIPE)	0.13	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.17	0.50	ND	
cis-1,2-Dichloroethene	0.19	0.50	ND	
2,2-Dichloropropane	0.15	0.50	ND	
Bromochloromethane	0.20	0.50	ND	
Chloroform	0.13	0.50	ND	
Carbon Tetrachloride	0.15	0.50	ND	
1,1,1-Trichloroethane	0.097	0.50	ND	
1,1-Dichloropropene	0.15	0.50	ND	
Benzene	0.13	0.50	ND	
TAME	0.17	0.50	ND	
1,2-Dichloroethane	0.14	0.50	ND	
Trichloroethylene	0.13	0.50	ND	
Dibromomethane	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.13	0.50	ND	
cis-1,3-Dichloropropene	0.096	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.14	0.50	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
1,1,2-Trichloroethane	0.14	0.50	ND	
Dibromochloromethane	0.096	0.50	ND	
1,3-Dichloropropane	0.10	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	0.096	0.50	ND	
m,p-Xylene	0.13	1.0	ND	
o-Xylene	0.15	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1404105	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	04/16/14	**Analytical Batch:**	420189
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.21	0.50	ND		
Bromoform	0.21	1.0	ND		
Isopropyl Benzene	0.097	0.50	ND		
Bromobenzene	0.15	0.50	ND		
1,1,2,2-Tetrachloroethane	0.11	0.50	ND		
n-Propylbenzene	0.078	0.50	ND		
2-Chlorotoluene	0.076	0.50	ND		
1,3,5,-Trimethylbenzene	0.074	0.50	ND		
4-Chlorotoluene	0.088	0.50	ND		
tert-Butylbenzene	0.081	0.50	ND		
1,2,3-Trichloropropane	0.14	0.50	ND		
1,2,4-Trimethylbenzene	0.083	0.50	ND		
sec-Butyl Benzene	0.092	0.50	ND		
p-Isopropyltoluene	0.093	0.50	ND		
1,3-Dichlorobenzene	0.10	0.50	ND		
1,4-Dichlorobenzene	0.069	0.50	ND		
n-Butylbenzene	0.081	0.50	ND		
1,2-Dichlorobenzene	0.057	0.50	ND		
1,2-Dibromo-3-Chloropropane	0.15	0.50	ND		
Hexachlorobutadiene	0.19	0.50	ND		
1,2,4-Trichlorobenzene	0.12	0.50	ND		
Naphthalene	0.14	1.0	ND		
1,2,3-Trichlorobenzene	0.23	0.50	ND		
(S) Dibromofluoromethane			125		
(S) Toluene-d8			101		
(S) 4-Bromofluorobenzene			114		
Ethanol	0.21	0.50	ND	TIC	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1404105	**Prep Method:**	5030	**Prep Date:**	04/15/14	**Prep Batch:**	11317
Matrix:	Water	**Analytical Method:**	8260TPH	**Analyzed Date:**	04/15/14	**Analytical Batch:**	420158
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 as Gasoline	31	50	ND	238.1	113	90.4	22.3	52.4 - 127	30	
(S) 4-Bromofluorobenzene			74.1	11.9	79.2	66.5		41.5 - 125		

Work Order:	1404105	**Prep Method:**	5030	**Prep Date:**	04/16/14	**Prep Batch:**	11336
Matrix:	Water	**Analytical Method:**	8260TPH	**Analyzed Date:**	04/16/14	**Analytical Batch:**	420189
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 as Gasoline	31	50	ND	238.1	94.9	102	7.61	52.4 - 127	30	
(S) 4-Bromofluorobenzene			53.5	11.9	61.6	75.6		41.5 - 125		

Work Order:	1404105	**Prep Method:**	3510_TPH	**Prep Date:**	04/19/14	**Prep Batch:**	11371
Matrix:	Water	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	04/19/14	**Analytical Batch:**	420247
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.0440	0.10	ND	1	86.4	86.5	0.167	50.3 - 125	30	
Pentacosane (S)			ND	50	91.6	92.6		57.9 - 125		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1404105	**Prep Method:**	3510_BNA	**Prep Date:**	04/21/14	**Prep Batch:**	11378
Matrix:	Water	**Analytical Method:**	SW8270C	**Analyzed Date:**	04/21/14	**Analytical Batch:**	420256
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Phenol	0.96	4.0	ND	40	47.9	53.7	11.3	10.5 - 112	30	
2-Chlorophenol	1.3	4.0	ND	40	77.0	88.0	13.4	23 - 134	30	
1,4-Dichlorobenzene	1.3	4.0	ND	20	84.1	95.9	13.1	45 - 135	30	
N-Nitroso-di-n-propylamine	1.4	4.0	ND	40	81.5	94.5	14.7	35.5 - 129	30	
1,2,4-Trichlorobenzene	0.95	4.0	ND	20	106	118	10.7	51.8 - 125	30	
4-Chloro-3-methylphenol	0.79	4.0	ND	40	95.7	108	12.1	46.7 - 112	30	
Acenaphthene	0.61	4.0	ND	20	89.5	102	13.1	52.5 - 116	30	
4-Nitrophenol	1.4	4.0	ND	40	17.1	20.2	16.4	11.6 - 74.9	30	
2,4-Dinitrotoluene	0.49	4.0	ND	20	105	117	10.5	60.3 - 112	30	,S
Pentachlorophenol	0.25	4.0	ND	40	97.0	113	15.3	46.2 - 116	30	
Pyrene	0.46	4.0	ND	20	87.1	105	18.2	45.9 - 127	30	
Phenol-d6 (S)			ND	40	38.2	42.1		10 - 94		
2-Fluorophenol (S)			ND	40	55.8	62.5		21 - 100		
2,4,6-Tribromophenol (S)			ND	40	73.4	82.1		29.6 - 130		
Nitrobenzene-d5 (S)			ND	20	91.8	106		31.0 - 116		
2-Fluorobiphenyl (S)			ND	20	94.0	106		21.3 - 123		
p-Terphenyl-d14 (S)			ND	20	105	122		10 - 123		

Work Order:	1404105	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	04/15/14	**Analytical Batch:**	420158
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	0.14	0.50	ND	17.86	71.0	78.6	10.1	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.86	81.2	88.5	8.64	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.86	77.9	89.5	14.0	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.86	81.5	95.7	15.7	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.86	82.5	96.5	15.9	73.9 - 137	30	
(S) Dibromofluoromethane			ND	11.9	86.7	82.5		61.2 - 131		
(S) Toluene-d8			ND	11.9	88.7	87.6		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	11.9	90.0	89.1		64.1 - 120		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1404105	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Water	**Analytical Method:**	SW8260B	**Analyzed Date:**	04/16/14	**Analytical Batch:**	420189
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	0.14	0.50	ND	17.86	115	113	2.33	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.86	103	101	2.22	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.86	104	102	1.69	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.86	107	106	1.08	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.86	106	106	0.531	73.9 - 137	30	
(S) Dibromofluoromethane			ND	11.9	84.2	77.6		61.2 - 131		
(S) Toluene-d8			ND	11.9	87.6	81.3		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	11.9	87.0	78.6		64.1 - 120		

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 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
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.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
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
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
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
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.

Sample Receipt Checklist

Client Name: Golden Gate Environmental, Inc

Project Name: 5930 College Avenue, Oakland

Work Order No.: 1404105

Date and Time Received: 4/15/2014 10:35

Received By: RP

Physically Logged By: RP

Checklist Completed By: RP

Carrier Name: First 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?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
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?	Yes	Temperature: 3	°C
Water-VOA vials have zero headspace?	Yes		
Water-pH acceptable upon receipt?	N/A		

pH Checked by: NA

pH Adjusted by: NA

Login Summary Report

Client ID: TL5127 Golden Gate Environmental, Inc

Project Name: 5930 College Avenue, Oakland

Project # :

Report Due Date: 4/22/2014

QC Level:

TAT Requested: 5+ day:0

Date Received: 4/15/2014

Time Received: 10:35

Comments:

Work Order # : ***1404105***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1404105-001A	MW-1	04/14/14 13:53	Water	05/30/14			EDF W_GCMS-GRO W_8260PetE	
Sample Note:	Test for TPHg,d,mo, BTEX,Naphthalene,MTBE/TBA,EDB,EDB/EDC,PAH for sample 001A/B-003A/B. Test for TPHg,mo,d, VOCs, PAH for sample 004A/B							
1404105-001B	MW-1	04/14/14 13:53	Water	05/30/14			W_8270CPAH W_TPHDO	
Sample Note:	Test for TPHg,d,mo, BTEX,Naphthalene,MTBE/TBA,EDB,EDB/EDC,PAH for sample 001A/B-003A/B. Test for TPHg,mo,d, VOCs, PAH for sample 004A/B.							
1404105-002A	MW-2	04/14/14 13:07	Water	05/30/14			W_GCMS-GRO W_8260PetE	
1404105-002B	MW-2	04/14/14 13:07	Water	05/30/14			W_8270CPAH W_TPHDO	
1404105-003A	MW-3	04/14/14 12:03	Water	05/30/14			W_GCMS-GRO W_8260PetE	
1404105-003B	MW-3	04/14/14 12:03	Water	05/30/14			W_8270CPAH W_TPHDO	
1404105-004A	PW-1	04/14/14 11:17	Water	05/30/14			W_GCMS-GRO W_8260Full	
1404105-004B	PW-1	04/14/14 11:17	Water	05/30/14			W_8270CPAH W_TPHDO	

Torrent LABORATORY, INC.

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

RESET

CHAIN OF CUSTODY

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

LAB WORK ORDER NO: 1404105

Company Name: Golden Gate Environmental, Inc.	Location of Sampling: 5930 College Avenue, Oakland
Address: 1455 Yosemite Avenue	Purpose: 2nd Quarter 2014 Groundwater Monitoring/Sampling
City: San Francisco State: CA Zip Code: 94124	Special Instructions / Comments: Global ID: T0600102112. Field Point ID=Sample ID
Telephone: 415-970-9088 FAX: 415-970-9089	
REPORT TO: Brent Wheeler SAMPLER: DEI	P.O. #: GGE 2014 / DEI-7228 EMAIL: b.wheeler@ggtr.com

TURNAROUND TIME:
☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
☑ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:
☐ Storm Water ☐ Air
☐ Waste Water ☐ Other
☑ Ground Water
☐ Soil

REPORT FORMAT:
☐ QC Level IV
☑ EDF
☐ Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPH-G (8260)	BTEX (8260)	Naphthalene (8260)	MTBE/TBA (8260)	EDB/EDC (8260)	VOCs (Full List)	TPH-D/MO	PAHs (8270)		REMARKS
001A/B	MW-1	4-14-14/ 1353	GW	4 6	Voa Amber	✓	✓	✓	✓	✓		✓	✓		
002A/B	MW-2	4-14-14/ 1307	GW	4 6	Voa Amber	✓	✓	✓	✓	✓		✓	✓		
003A/B	MW-3	4-14-14/ 1203	GW	4 6	Voa Amber	✓	✓	✓	✓	✓		✓	✓		
004A/B	PW-1	4-14-14/ 1117	GW	4 6	Voa Amber	✓					✓	✓	✓		Temp 3°C

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	[signature]	Kim Atkinson	4/14/14	1600	[signature]	FedEx	4/14/14	1600
2	[signature]	Kim Atkinson	4/15/14		Courier		4/15/14	911 am

Were Samples Received in Good Condition? ☑ Yes ☐ NO Samples on Ice? ☑ Yes ☐ NO Method of Shipment FCS 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.

Log In By: [signature] Date: 4/15/14 1035 Log In Reviewed By: Received by [signature] NAVING G Date: 4/15/14 10:35 Am

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REC'D LI LBL LIR

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

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

Submittal Type:	EDF
Report Title:	Groundwater Monitoring Report - 2nd Quarter 2014
Report Type:	Monitoring Report - Semi-Annually
Facility Global ID:	T0600102112
Facility Name:	SHEAFFS SERVICE GARAGE
File Name:	GGE 1404105 5930 College Ave.zip
Organization Name:	Golden Gate Environmental, Inc.
Username:	GGE
IP Address:	108.81.108.167
Submittal Date/Time:	6/13/2014 10:14:07 AM
Confirmation Number:	4203142285

VIEW QC REPORT

VIEW DETECTIONS REPORT

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

Submittal Type:	GEO_WELL
Report Title:	Groundwater Monitoring Report - 2nd Quarter 2014
Facility Global ID:	T0600102112
Facility Name:	SHEAFFS SERVICE GARAGE
File Name:	GEO_WELL.zip
Organization Name:	Golden Gate Environmental, Inc.
Username:	GGE
IP Address:	108.81.108.167
Submittal Date/Time:	10/17/2014 1:58:44 PM
Confirmation Number:	9197944402

EPA On-line Tools for Site Assessment Calculation

Module Home Objectives Table of Contents Previous < Next >

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

Example Data Set 1 | Calculate | Clear

Save Data | Recall Data | Go Back

Site Name: 5930 College, Oak

Date: 4/14/14 Current Date

Calculation basis: Head

Coordinates: ft

x-coordinate	y-coordinate	head (ft)
6055822.91	2135878.96	184.98
6055818.98	2135842.80	184.15
6055924.91	2135914.96	185.03

Gradient Magnitude (i): 0.02509

Degrees from North (+ y axis): 161.6

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WCMS
Last updated on Thursday, January 10, 2013