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September 14, 2017

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 - 3rd Quarter 2017**

**SITE: Sheaff's Garage**
**5930 College Avenue, Oakland, California**
**ACHCSA Fuel Leak Case No. RO0000377**
**WGE Project 2016106**

Dear Mr. Detterman:

Upon my authorization, Wheeler Group Environmental, LLC has prepared the attached *Groundwater Monitoring Report* for the semi-annual groundwater monitoring and sampling activities conducted during the 3rd Quarter 2017 at the above-referenced property on August 17, 2017. WGE 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, Manager of Wheeler Group Environmental, LLC at (415) 512-1555 at your convenience.

I have read and acknowledge the content, recommendations, and and/or conclusions contained in the attached document submitted on my behalf to ACDEH's FTP server and the State Water Resource Control Board's GeoTracker website.

Respectfully Submitted,

Trustee

Dr. Brian R. Sheaff
William G. Sheaff & Patricia Warren Restated Living Trust U/D/T 2/14/89

Distribution: (1) Addressee

# GROUNDWATER MONITORING REPORT
# 3rd Quarter 2017

Sheaffs Service Garage
5930 College Avenue
Oakland, California 94618

Alameda County Fuel Leak Case No. RO0000377
San Francisco Bay RWQCB (Region 2) Case No. 01-2296
GeoTracker Global ID No. T0600102112

**Sampling Date: August 17, 2017**
**Report Date: September 14, 2017**

Prepared For:

**William G. Sheaff & Patricia Warren Restated Living Trust U/D/T 2/14/89**

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

Prepared by:

**Wheeler Group Environmental, LLC**
369-B Third Street, Suite #221, San Rafael, CA 94901
Phone 415-686-8846

**WGE Project No. 2016106**

# STATEMENT OF PROFESSIONAL CERTIFICATION

Document Title: 3rd Quarter 2017 Groundwater Monitoring Report

Location: Sheaffs Service Garage
5930 College Avenue, Oakland, California
Alameda County Fuel Leak Case No. RO0000377

Wheeler Group Environmental, LLC has prepared this document for the subject property in accordance with our proposal and signed contract utilizing methods and procedures that meet or exceed industry professional standards in effect at the time of this work.

The California Geologist and Geophysicist Act (Business and Professions Code sections 7800–7887) requires that all geologic plans, specifications, reports, or documents shall be prepared by a professional geologist or registered specialty geologist, or by a subordinate employee under his or her direction. In addition, the document shall be signed by the professional geologist or registered specialty geologist or stamped with his or her seal, either of which shall indicate his or her responsibility for them. This document was prepared and signed by a "professional geologist" in accordance with California Business and Professions Code Section 7835.

Date: September 14, 2017

Brent A. Wheeler
Principal/Manger

Mark Youngkin
Professional Geologist No. 3888


**Wheeler Group Environmental, LLC**

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Phone: 415-686-8846

# GROUNDWATER MONITORING REPORT

5930 College Avenue, Oakland, CA

# CONTENTS

# GROUNDWATER MONITORING REPORT
## 3rd Quarter 2017

## Sheaffs Service Garage

5930 College Avenue, Oakland, California

ACHCSA Fuel Leak Case No. RO0000377

## INTRODUCTION

Wheeler Group Environmental, LLC (Wheeler Group or WGE) presents the results of the 3rd Quarter 2017 groundwater monitoring and sampling event conducted on August 17, 2017, 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 Site 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 shows the groundwater flow direction for the most recent event. Table 1 provides a tabulated summary of the laboratory results of historical groundwater sample analyses for petroleum hydrocarbons and fluid-level monitoring data at the Site. Table 2 provides a tabulated summary of sample analyses for Volatile Organic Compounds (VOCs), predominantly 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 level 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. Harwood Creek is located in an underground box conduit about one block to the south of the Site with a flood water cutoff box conduit adjoining the Site beneath College Avenue.

## 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.

| | |
|---|---|
| Posted Site Address: | 5930 College Avenue, Oakland, CA |
| Site Location: | Rockridge / Fairview Park |
| County: | Alameda |
| Assessor's Parcel No. | 14-1266-60 |
| Description: | Commercial repair garage |
| Use code: | 8100 |
| Building Type: | single-story industrial-style building |
| Building size: | Approximately 4,125 square feet |
| Lot Size: | Approximately 5,500 square feet |
| Date of Construction | 1952 |
| Basement: | None |
| Foundation: | Concrete slab on grade |
| HVAC: | Natural gas |
| Source of Water: | Municipal |
| Sewage Disposal: | Municipal |
| Solid Waste Disposal: | Municipal |
| Utilities: | Municipal water, electricity, natural gas and sewer infrastructure is provided to the area by utility district |
| Primary Access: | Driveway from College Avenue |
| Occupant: | Stauder Automotive Services |

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 named 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.

From April 2002 through October 2012, CRA / Gettler-Ryan monitored and sampled wells GR-MW1 & GR-MW2 on a biannual basis. Chevron performed additional investigation and submitted data gap and case closure request documents in 2013-2014. The ACEH submitted its Remedial Action Completion Certification & Case Closure Summary for the adjoining site on December 12, 2014. Both monitor wells were destroyed in October 2015 as a condition for case closure. Figures 2 and 3 show the location of each former CRA / Gettler-Ryan well relative to the monitor wells on the subject property.

## GROUNDWATER MONITORING & SAMPLING

The scope of work for the 3rd Quarter 2017 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 and report submittal

On August 17, 2017, WGE in conjunction with Dysert Environmental, Inc. (DEI) monitored and sampled existing monitor wells MW-1, MW-2, and MW-3, and piezometer PW-1.

### Scope/Sequence of Work Activities

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 a minimum of 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 fuel was noted in wells MW-1, MW-2 and MW-3. Depth to groundwater ranged from 9.31 feet below grade (fbg) in piezometer PW-1 to 10.61 fbg in well MW-2.

DEI subsequently purged groundwater from the well casing using a peristaltic pump using an average flow rate at 200 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 1.8 to 2.4 liters of water from each well casing and three successive readings of each parameter varied by less than 0.1, 10%, and 3%, respectively.

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 laboratory-cleaned 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 (@10-12 Gallons) was transferred directly to an existing D.O.T.-approved, 55-gallon liquid storage drum, appropriately labeled, sealed, and temporarily stored onsite in a secure area. Following waste profiling and facility acceptance, Big Sky Enterprises (US EPA ID No. CAL000301639), on September 18, 2017, transported one drum of waste liquid to the Big Sky Enterprises licensed disposal facility in Benicia, California, under Non-Hazardous Waste Manifest No. 071817001. A copy of the waste manifest is included in Appendix B.

## Water Sample Analytical Methods

On August 21, 2017, DEI submitted all 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
- TPH as Diesel by Method SW8015B
- Volatile Organic Compounds (Full List) by Method SW8260B

The groundwater samples collected from both MW-1 and MW-1 were additionally analyzed for TPH as diesel with Silica Gel Cleanup. Tables 1 and 2 attached, present a summary of the laboratory analytical results for the sampling event as well as historic 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 released their certified analytical report on August 25, 2017, as Work Order No.: 1708149. 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.

## GeoTracker Database Submittal

Wheeler Group directed Torrent to deliver the finished analytical data in electronic deliverable format (EDF) in accordance with the State Water Resources Control Board's GeoTracker database system. WGE uploaded the analytical data as well as the Fluid-Level Monitoring Data (GEO_WELL) for each event to the GeoTracker Database System. WGE also uploaded a copy of this report in Portable Data Format (PDF) to the GeoTracker Database System. Attachment B includes a copy of each associated GeoTracker Upload Confirmation Sheets.

## Groundwater Monitoring Results

For the August 17, 2017 event, the groundwater elevations, as referenced to Mean Sea Level (MSL) and calculated relative to the top of well casing ranged between 184.93 feet in well MW-3 to 187.86 feet in piezometer PW-1, a difference of 2.93 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. One site well MW-2 has previously been excluded from flow direction calculations for obvious inconsistencies in groundwater elevation data. The attached Figure 4, titled Groundwater Data Diagram-August 2017 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 August 17, 2017 monitoring event, the groundwater flow direction beneath the Site was estimated at North 203º (southward) under a hydraulic gradient of approximately 0.027 ft/ft. The groundwater flow direction shifted approximately 23º to the west, as compared to the November 21, 2016 event. The new data is consistent with historical data for the Site with the flow direction ranging from south to northwest. The large variation in groundwater flow direction is inconsistent with previous studies at nearby former gasoline stations. The 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 or to the influence of large underground storm water box conduits.

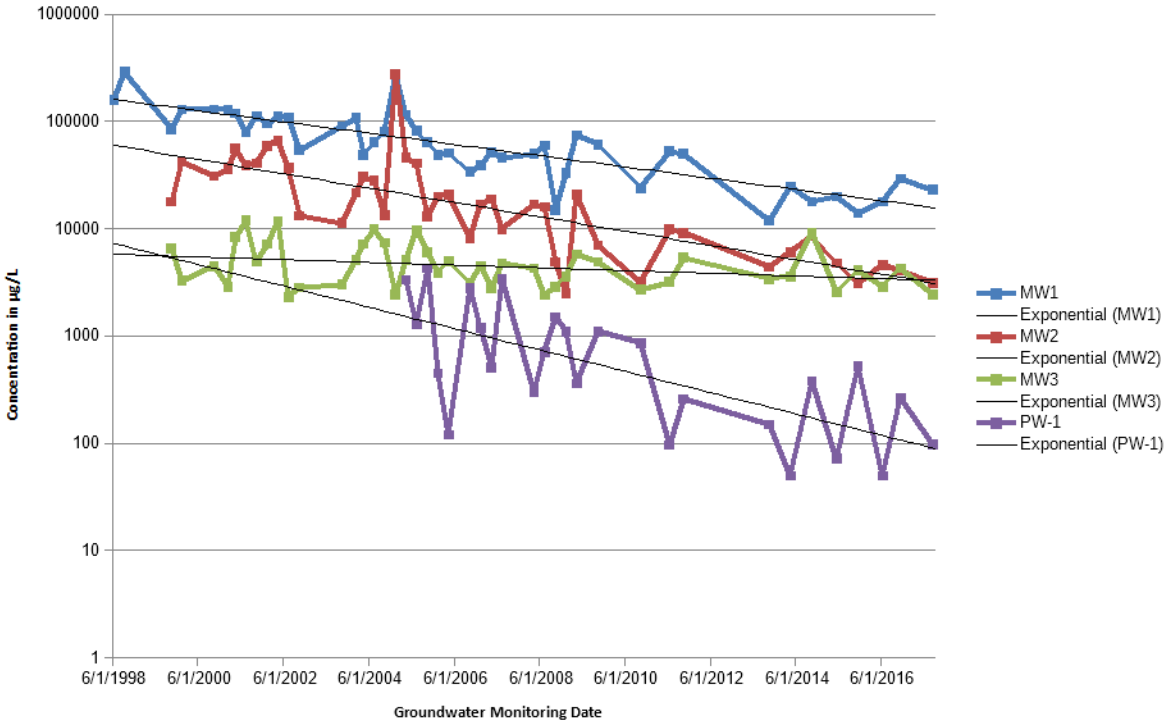
## Results of Groundwater Sampling & Laboratory Analysis

The attached Tables 1 & 2 tabulate recent and historical groundwater analysis results. The associated laboratory report is included in Attachment B. As shown on Table 1, *Historical Groundwater Levels & Hydrocarbon Analytical Results*, the laboratory reported concentrations of TPH as gasoline in groundwater samples collected during the August 2017 event ranging from 98 µg/l in piezometer PW-1 to 23,100 µg/l in well MW-1. Benzene concentrations ranged between 0.6 µg/l in piezometer PW-1 to 2700 µg/l in well MW-1. As compared with the November 2016 event, the TPH as gasoline concentrations decreased in

well MW-1 from 29,300 to 23,100 µg/l and the Benzene concentration decreased from 4000 to 2700 µg/l. The TPH as gasoline measured in MW-2 decreased from 5110 to 3130 µg/l and in MW-3 from 4290 to 2460 µg/l.

The following chart plots TPH as gasoline concentrations in four field points versus time displaying an overall decreasing trend line in contaminant concentrations following primary source removal in 1996. The recently measured concentrations appear consistent with the historical trend lines with pronounced seasonal fluctuations in TPH concentration.

Per the most recent ACDEH Letters dated April 11, 2014 and April 9, 2015, samples collected from each monitoring well were to be additionally analyzed for Naphthalene and TPH as diesel. During the August 2017 event, the laboratory reported Naphthalene at <2.0 µg/l in well MW-1, 16 µg/l in well MW-2, and 2.6 µg/l in well MW-3, with concentrations decreasing in MW-1 & MW-3 since the November 2016 event. TPH as diesel was detected in MW-1, MW-2 and MW-3 at concentrations of 2210, 1970, and 903, respectively. With Silica Gel Cleanup performed on the samples from MW-1, MW-2 and MW-3, the TPH as diesel




decreased in MW-1 to 341 µg/l and 601 µg/l in well MW-2.

The laboratory analytical report noted that for each TPH as gasoline sample result, although TPH as gasoline constituents are present, the chromatographic pattern does not resemble the typical gasoline reference standard. 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.

PCE was detected in the groundwater sample collected in piezometer PW-1 on August 17, 2017, at a concentration of 30 µg/l, increasing from the 15 µg/l concentration measured

during the November 2016 event. The recently measured PCE concentration of 30 µg/l exceeds its applicable San Francisco Bay Regional Water Quality Control Board's Tier 1 Environmental Screening Level (ESL) of 3 µg/l. The PCE breakdown products of TCE and Cis-1,2-DCE were measured in well PW-1, at a concentration of 0.84 µg/l and <0.5 µg/l during this event. Table 2 includes a summary of the historical groundwater VOC analysis results. As shown on the table, the current concentration is well below the historical high values for PCE of 120 and 110 µg/l reported in April 2009 and 2014, respectively. The complete full list VOC laboratory analysis results are included in Attachment B.

## CONCLUSIONS AND RECOMMENDATIONS

- Due to the elevated concentrations of TPH as gasoline and Benzene remaining in monitor wells MW-1 and MW-3, the existing groundwater monitoring and sampling at the subject property should continue on a semi-annual basis. Contaminant trend lines at the Site appear well established and groundwater monitoring and sampling on an annual basis may be sufficient.
- Unless otherwise directed by the ACDEH, groundwater samples will continue to be analyzed for TPH as gasoline by method 8260TPH; Volatile Organic Compounds (VOC), BTEX, MTBE and Naphthalene by EPA Method SW8260B (Full List); and TPH as diesel by SW8015B with and without Silica Gel Cleanup (MW-1 & MW-1 only).

## REPORT DISTRIBUTION

This report and future correspondence associated with WGE Project 2016106 will be submitted to:

Mr. Mark Detterman, P.G., C.E.G.
Senior Hazardous Materials Specialist
mark.detterman@acgov.org
Alameda County Health Care Services Agency
Department of Environmental Health
Local Oversight Program (LOP)
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Alameda, CA 94502-6577

1 PDF Report via upload to GeoTracker Website
1 PDF Report via upload to ACDEH's FTP Server

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

1 Bound Hard Copy Report

John Accacian
5930 College Avenue
Oakland, CA 94618
jjjracingaol@yahoo.com

1 PDF Report via email

## 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 therefore may differ from the conditions implied by subsurface investigation. Existing hazardous materials and contaminants can escape detection using existing 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. Wheeler Group'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.

WGE 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. The figures, drawings and plates presented in this report are only for the purposes of environmental assessment and no other use is recommended. No other third party may rely on this report, figures or plates for any other purpose.

# GROUNDWATER MONITORING REPORT
**3rd Quarter 2017**

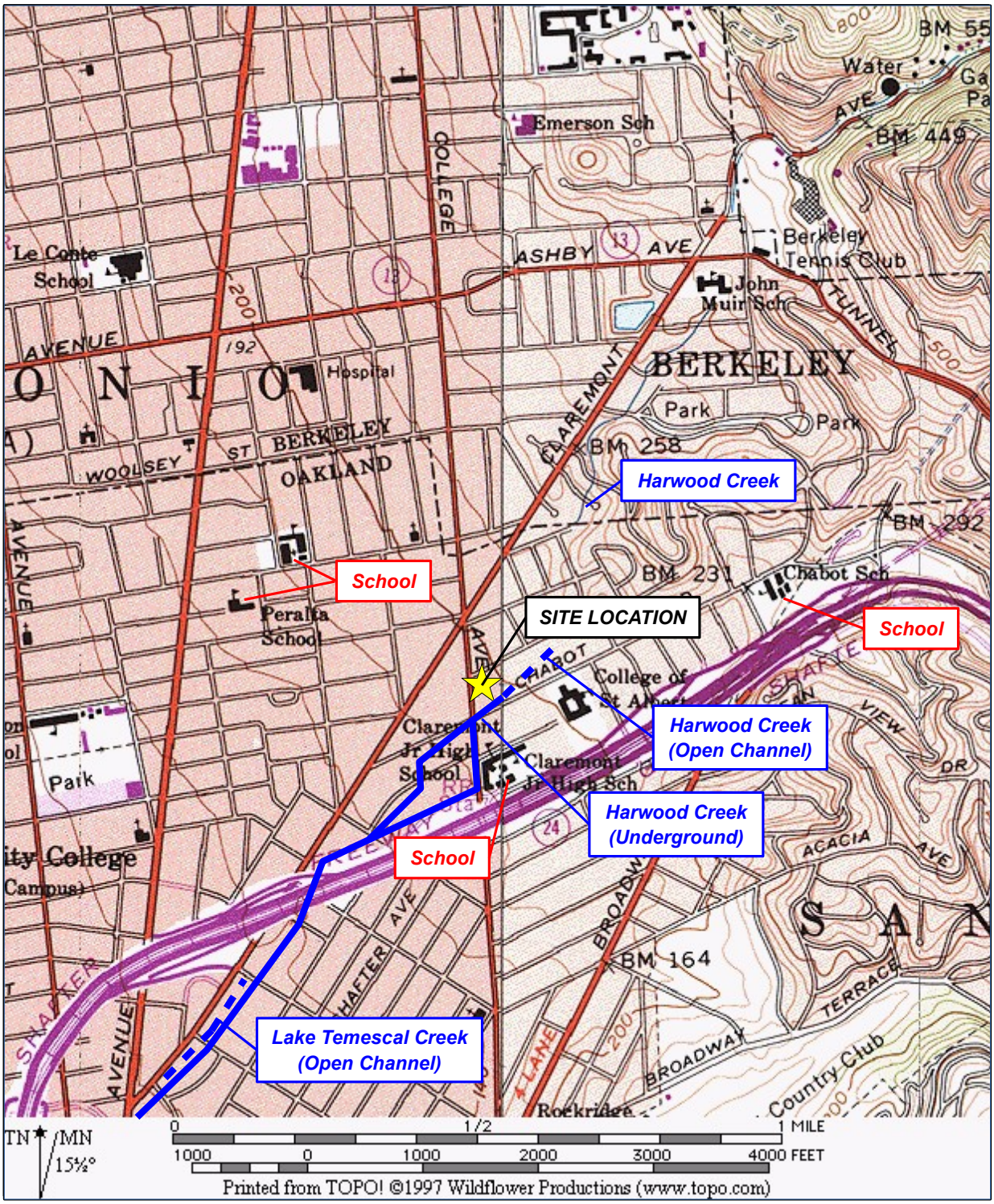
**Sheaff's Service Garage**
**5930 College Avenue, Oakland, CA 94618**

**ACHCSA Fuel Leak Case No. RO0000377**
**WGE Project # 2016106**

# FIGURES




**Wheeler Group Environmental, LLC**
369-B Third Street, Suite #221, San Rafael, CA 94901

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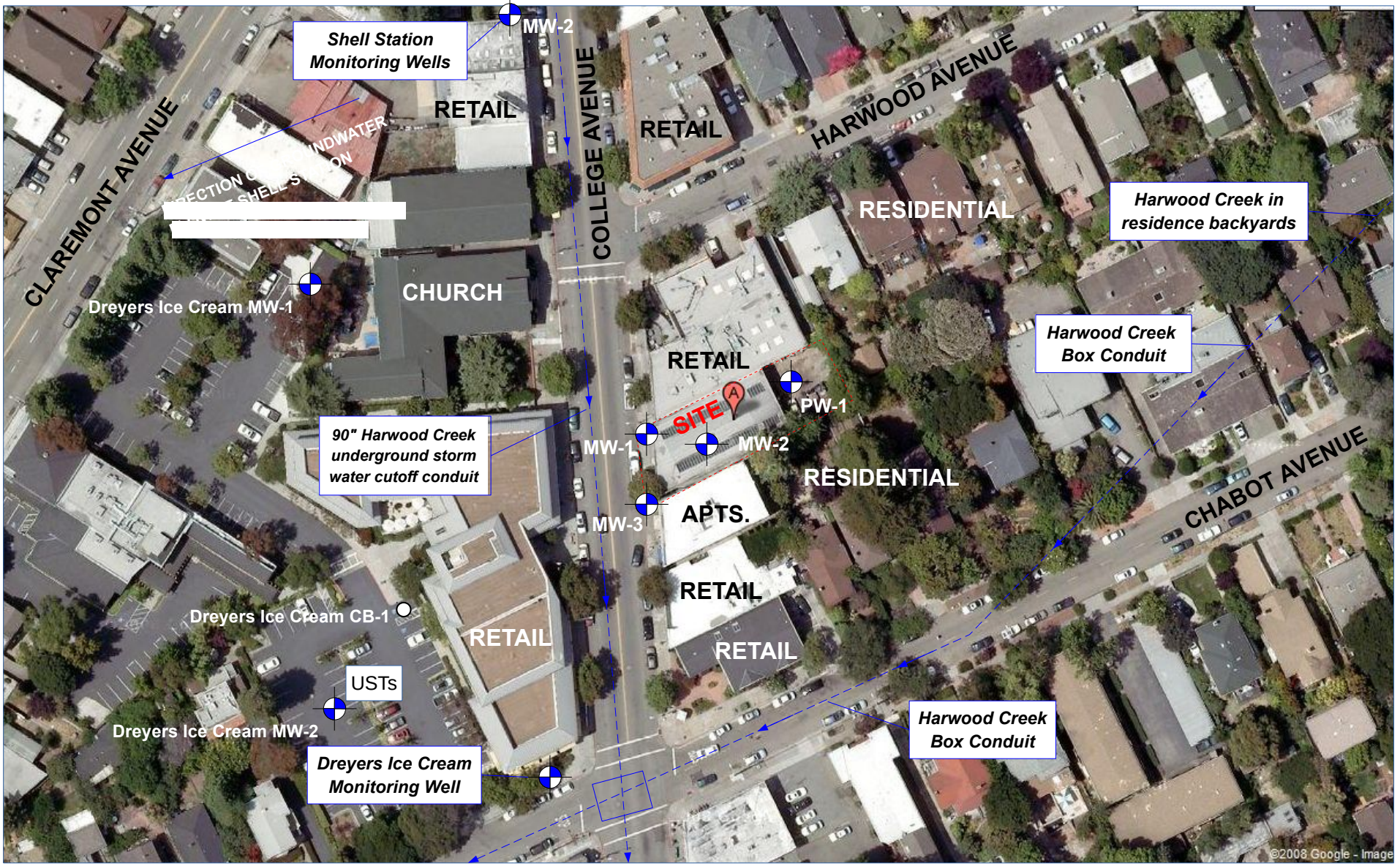
**SITE LOCATION MAP**
**Groundwater Monitoring Report**
**3rd Quarter 2017**
5930 College Avenue, Oakland, California

| Project No. 2016106 | FN: 2016106_Fig.1 | September 2017 | ***Figure 1*** |
|---|---|---|---|




Base Map from Google Maps, 2008, at a scale of about 1"=100 feet with North to top of map.

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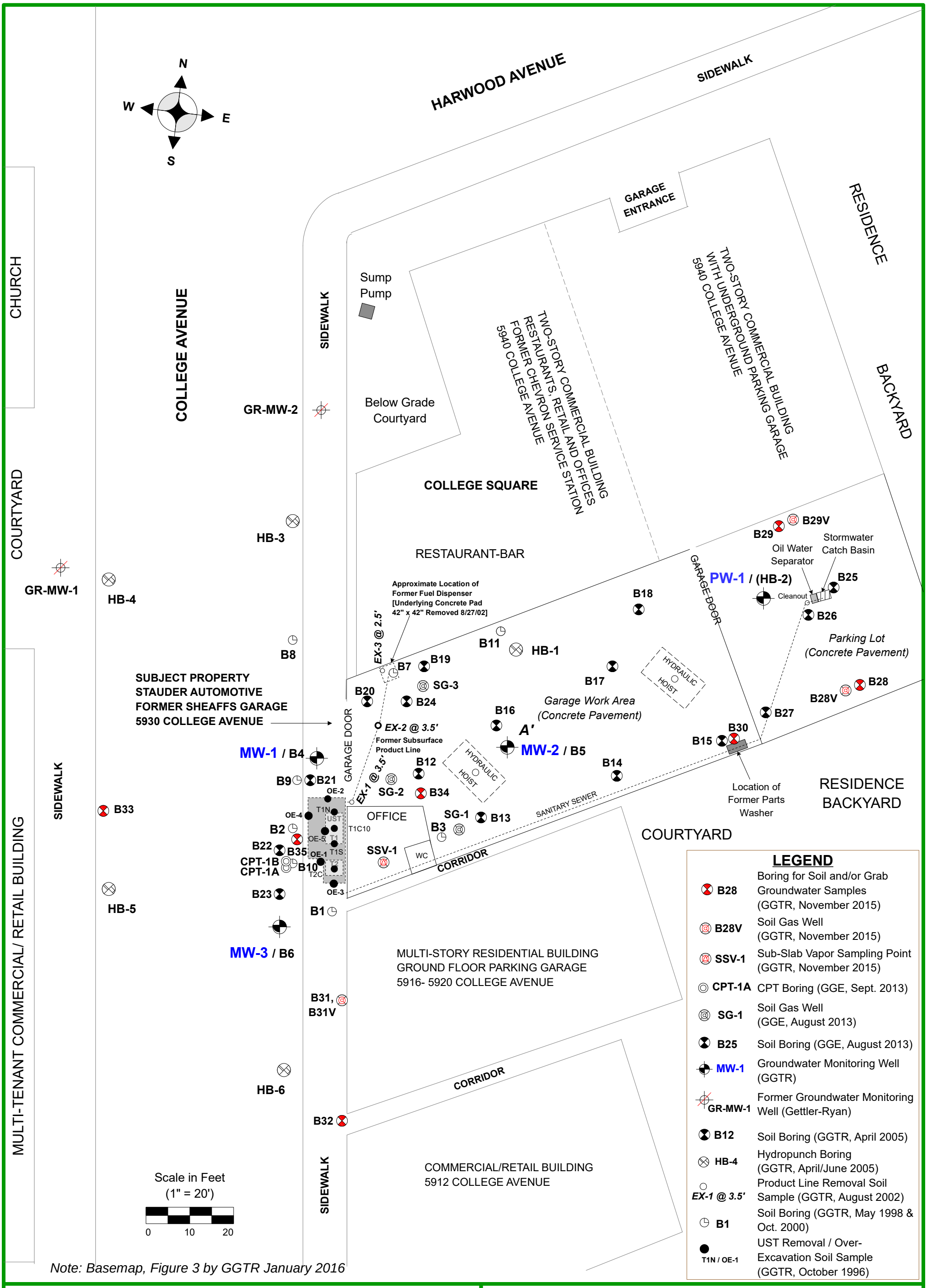
**SITE VICINITY MAP**
**Groundwater Monitoring Report**
**3rd Quarter 2017**
5930 College Avenue, Oakland, California

| Project No. 2016106 | FN: 2016106_Figure 2_Site Vicinity Map.odg | September 2017 | **Figure 2** |
|---|---|---|---|




*Note: Basemap, Figure 3 by GGTR January 2016*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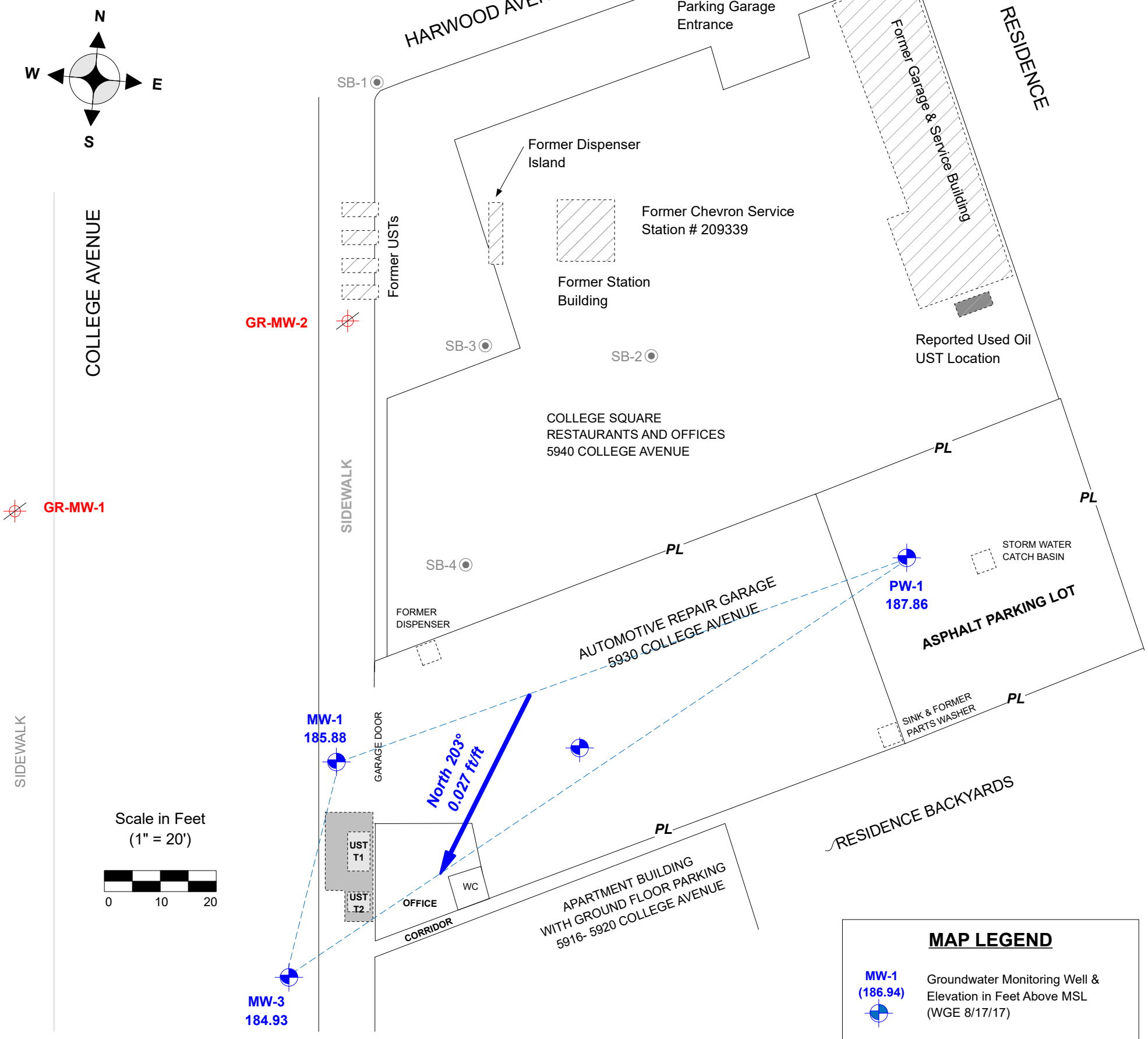
# SITE PLAN

## Groundwater Monitoring Report 3rd Quarter 2017

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

| GGTR Project No. 2016106 | 2016106_Figure 3_Site Plan_Sept 2017.odg | September 2017 | **Figure 3** |
|---|---|---|---|



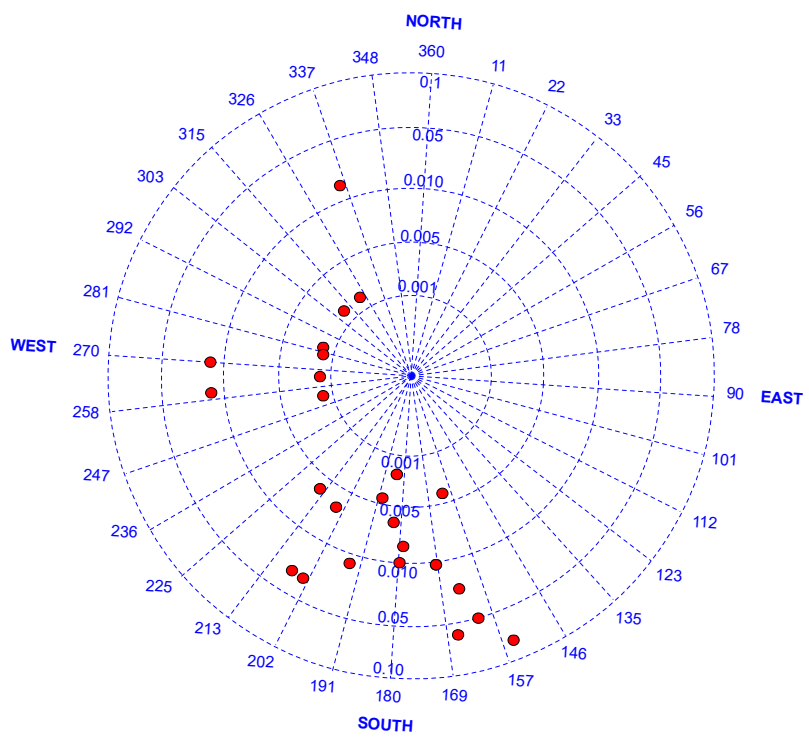

## MAP LEGEND

| | |
|---|---|
| MW-1 (186.94) | Groundwater Monitoring Well & Elevation in Feet Above MSL (WGE 8/17/17) |
| GR-MW-1 | Gettler-Ryan Groundwater Monitoring Well, Destroyed Oct. 2014 |
| | Approximate Groundwater Flow Direction and Hydraulic Gradient (WGE 8/17/17) |
| ug/L | Micrograms per liter |
| | Approx. Limit of Former UST Excavation |
| PL | Property Line |

**Wells MW-1, MW-3 & PW-1:**

| Date | Groundwater Flow Direction / Hydraulic Gradient (ft/ft) |
|---|---|
| 4/14/05 | 161.3@0.05 |
| 7/26/05 | 282.5@0.002 |
| 10/14/05 | 309.9@0.002 |
| 1/13/06 | 194.8@0.016 |
| 04/14/06 | 208.5@0.026 |
| 10/26/06 | 249.9@0.002 |
| 01/30/07 | 325@0.002 |
| 04/13/07 | 265.9@0.002 |
| 07/24/07 | 281.8@0.002 |
| 4/21/08 | 155.2@0.072 |
| 7/22/08 | 270.4@0.012 |
| 10/21/08 | 159.5@ 0.004 |
| 1/19/09 | 184 @ 0.0017 |
| 10/27/09 | 179 @ 0.008 |
| 10/14/10 | 188 @ 0.004 |
| 6/9/11 | 184 @ 0.006 |
| 10/7/11 | 216 @ 0.006 |
| 10/16/2013 | 169.1@0.012 |
| 4/14/2014 | 161.6@0.025 |
| 10/20/2014 | 333.4@0.014 |
| 5/13/2015 | 206 @ 0.007 |
| 11/11/2015 | 261 @ 0.015 |
| 6/7/2016 | 166 @ 0.052 |
| 11/21/2016 | 180 @ 0.010 |
| **8/17/2017** | **203 @ 0.027** |

**ROSE DIAGRAM**




Rose diagram showing historic flow direction & gradient. Circles show recent data from three wells MW-1, MW-3 & PW-1 since April 14, 2005. Note non-linear scale for gradient to accommodate large variation in data.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# GROUNDWATER DATA DIAGRAM

## Groundwater Monitoring Report 3rd Quarter 2017

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

| Project No. 2016106 | *2016106_Figure 4_3Q17_GW Data Diagram_Sept2017.odg* | September 2017 | **Figure 4** |
|---|---|---|---|

# GROUNDWATER MONITORING REPORT
## 3rd Quarter 2017

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

**ACHCSA Fuel Leak Case No. RO0000377**
**WGE Project # 2016106**

# TABLES




**Wheeler Group Environmental, LLC**
369-B Third Street, Suite #221, San Rafael, CA 94901

# 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 | | 4.81 | 191.09 | slight sheen | 160000 | NA | 1900 | 28000 / 21000 / 3800 / 21000 | NA |
| | 9/10/98 | | 7.5 | 188.4 | Odor | 290000 | NA | 440 | <50 / 25000 / 7100 / 32000 | NA |
| | 10/7/99 | | 10.04 | 185.86 | Odor | 85000 | NA | 1100 | 20000 / 13000 / 3800 / 17000 | NA |
| | 1/26/00 | | 8.26 | 187.64 | slight sheen | 130000 | NA | 470 | 25000 / 18000 / 4500 / 22000 | NA |
| | 10/25/00 | | 10.1 | 185.8 | Odor | 130000 | NA | 1300 | 23000 / 12000 / 3900 / 18000 | NA |
| | 2/2/01 | | 9.61 | 186.29 | 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 |
| **SF Bay RWQCB February 2016 ESL** | | | | | | **100** | **100** | **1200** | **1.1 / 3600 / 13 / 1300** | **20** |

***Table & Notes Following***

# TABLE 1 (Cont'd)

## 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 | 6/9/11 | 195.9 | 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 |
| | 4/14/14 | | 10.92 | 184.98 | Clear | 25000[6] | 3000[7,8] | ND<21 | 3000/480/2100/6700 | 500[9] |
| | 10/20/14 | | 11.2 | 184.7 | Clear/Odor | 18000[2] | 2000[7,8] | 63 | 5600/300/2000/910 | 300[9] |
| | 5/13/15 | | 9.33 | 186.57 | Clear/Odor | 20000 | 2600[7,8] | 57 | 2700/340/1600/2760 | 360[9] |
| | 11/11/15 | | 12.42 | 183.48 | Clear/Odor | 14000[5] | 4100[7,8] | 49 | 3900/91/750/288.5 | 130[9] |
| | 6/7/16 | | 8.96 | 186.94 | Turbid/Odor | 18000[2,5] | 2500(210)[7,10] | 41 | 3100/220/1300/2390 | 180 |
| | 11/21/16 | | 10.43 | 185.47 | | 29300[2] | 4440 (1750)[7,10] | 42 | 4000 / 390 / 1700 / 4600 | 400 |
| | **8/17/17** | | **10.02** | **185.88** | **Clear/Odor** | **23100 [2]** | **2210(341)[7,10]** | **22** | **2700/230/1100/3090** | **ND<2.0** |
| **SF Bay RWQCB February 2016 ESL** | | | | | | **100** | **100** | **1200** | **1.1 / 3600 / 13 / 1300** | **20** |

***Table & Notes Following***

# TABLE 1 (Cont.)

## Historical Groundwater Levels & Hydrocarbon Analytical Results

## 5930 College Avenue, Oakland, CA

| Well ID | Sample Date | Casing Elevation (ft, MSL) | Depth to GW (ft, TOC) | Water Elevation (ft, MSL) | Product Odor/ Sheen | TPH-G (ug/L) | 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 |
| **SF Bay RWQCB February 2016 ESL** | | | | | | **100** | **100** | **1200** | **1.1 / 3600 / 13 / 1300** | **20** |

***Table & Notes Following***

# TABLE 1 (Cont'd)

## 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-2 | 10/7/2011 | 197.28 | 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] |
| | 10/20/2014 | | 12.54 | 184.74 | Clear/Odor | 8600[2] | 3700[7,8] | 15 | 140/5.6/73/20.9 | 24[9] |
| | 5/13/2015 | | 10.48 | 186.8 | Clear/Odor | 4800[2] | 2300[7,8] | 7.7 | 220/10/96/38 | 30[9] |
| | 11/11/15 | | 14.19 | 183.09 | Clear/Odor | 3100[2] | 2100[7,8] | 7.2 | 220/7.1/38/15 | ND<11[9] |
| | 6/7/16 | | 8.63 | 188.65 | Clear/Odor | 4600[2] | 2600(220)[7,10] | ND<5.3 | 160/ND<5.3/71/22 | 32 |
| | 11/21/16 | | 11.75 | 185.53 | Clear/Odor | 5110[2] | 4060 (1170)[7,10] | 4.7 | 300 / 12 / 43 / 18.7 | 13 |
| | **8/17/17** | | **10.61** | **186.67** | **Clear/Odor** | **3130 [2,4]** | **1970(601)[7,10]** | **1.2** | **49/1.4/14/11.4** | **16** |
| **SF Bay RWQCB February 2016 ESL** | | | | | | **100** | **100** | **1200** | **1.1 / 3600 / 13 / 1300** | **20** |

***Table & Notes Following***

# TABLE 1 (Cont.)

## Historical Groundwater Levels & Hydrocarbon Analytical Results

## 5930 College Avenue, Oakland, CA

| Well ID | Sample Date | Casing Elevation (ft, MSL) | Depth to GW (ft, TOC) | Water Elevation (ft, MSL) | Product Odor/ Sheen | TPH-G (ug/L) | TPH-D (ug/L) | MTBE (ug/L) | BTEX (ug/L) | Naphthalene (ug/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 10/7/99 | | 9.67 | 185.55 | None | 6600 | NA | 390 | 310 / 110 / 430 / 1000 | NA |
| | 1/26/00 | | 5.4 | 189.82 | None | 3300 | NA | 40 | 110 / 8 / 100 / 32 | NA |
| | 10/25/00 | | 9.24 | 185.98 | Slight odor | 4500 | NA | ND | 100 / 2 / 120 / 130 | NA |
| | 2/2/01 | | 8.73 | 186.49 | 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 | 5800.00 | 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 |
| **SF Bay RWQCB February 2016 ESL** | | | | | | **100** | **100** | **1200** | **1.1 / 3600 / 13 / 1300** | **20** |

*Table & Notes Following*

# TABLE 1 (Cont'd)

## 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-3 | 10/16/2013 | 195.22 | 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] |
| | 10/20/2014 | | 10.09 | 185.13 | Clear/Odor | 9200[2] | 25000[7,8] | 9.2 | 180/8.4/21/11 | ND<2.1[9] |
| | 5/13/2015 | | 8.89 | 186.33 | Clear | 2600[2] | 630[7,8] | 6.1 | 110/6.1/7.4/ND≤8.4 | ND<8.4[9] |
| | 11/11/15 | | 11.89 | 183.33 | Clear/Odor | 4100[2] | 760[7,8] | 9.5 | 660/21/250/52 | ND<8.4[9] |
| | 6/7/16 | | 10.05 | 185.17 | Clear/Odor | 2900[2] | 840[7] | 5.9 | 190/6.0/4.2/ND<8.4 | 17 |
| | 11/21/16 | | 10.13 | 185.17 | Clear | 4290[2] | 996 (351)[7,10] | 4.6 | 300 / 16 / 170 / 27.6 | 30 |
| | **8/17/17** | | **10.29** | **184.93** | **Clear/Odor** | **2460 [2,4]** | **903 [7]** | **15** | **350/8.4/4.9/5.67** | **2.6** |
| **SF Bay RWQCB February 2016 ESL** | | | | | | **100** | **100** | **1200** | **1.1 / 3600 / 13 / 1300** | **20** |

*Table & Notes Following*

# TABLE 1 (Cont.)

## Historical Groundwater Levels & Hydrocarbon Analytical Results

## 5930 College Avenue, Oakland, CA

| Well ID | Sample Date | Casing Elevation (ft, MSL) | Depth to GW (ft, TOC) | Water Elevation (ft, MSL) | Product Odor/ Sheen | TPH-G (ug/L) | 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 | 710.00 | 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] |
| | 10/20/2014 | | 12.28 | 184.89 | Clear | 380[2] | 140[7,8] | ND<0.5 | 2.4/ND<0.5/11/4.0 | 2.3[9] |
| | 5/13/2015 | | 10.06 | 187.11 | Clear | 72[2] | ND<0.1[7,8] | ND<0.5 | ND<0.5/ND<0.5/ND<0.5/ND≤1.0 | ND<1.0[9] |
| | 11/11/15 | | 14.02 | 183.15 | Clear | 520[2] | 140[7,8] | ND<0.5 | 3.8/ND<0.5/0.55/ND≤1.0 | ND<1.0[9] |
| | 6/7/16 | | 9.7 | 187.47 | Clear/Odor | ND<50 | ND<100 | ND<0.5 | ND<0.5/ND<0.5/ND<0.5/ND≤1.0 | ND<1.0 |
| | 11/21/16 | | 11.32 | 185.85 | Clear | 265[2] | 170 (ND<100)[7] | ND<0.5 | 2.1 / ND<0.50 / 0.51 / ND<1.0 | ND<`2.0 |
| | **8/17/17** | | **9.31** | **187.86** | **Clear** | **97.7 [2,4]** | **140 [7]** | **ND<0.5** | **0.60/ND<0.5/ND<0.5/ND≤1.0** | **ND<2.0** |
| **SF Bay RWQCB February 2016 ESL** | | | | | | **100** | **100** | **1200** | **1.1 / 3600 / 13 / 1300** | **20** |

***Table Notes Following***

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

***Table 1 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 practical quantitation limit (PQL)
[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]=Reported value 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; unknown organics within diesel range lighter than diesel quantified as diesel.
[8]= Sample also analyzed for TPH as Motor Oil (EPA Method SW8015B); See Lab Report for Sample Results
[9]= Sample also analyzed for Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method SW8270C; See Lab Report for Sample Results
[10]= Sample also analyzed for TPH as Diesel w/Silica Gel Cleanup; results shown in parentheses adjacent to table entry
* = 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 - February 2016, Environmental Screening Level for shallow groundwater at a residential use permitted site (Groundwater Vapor Intrusion Human Health Risk)

**Well Construction Data:**

| *Well #* | *Total Depth (ft, TOC)* | *Screen Interval (ft)* | *Installation Date* |
|---|---|---|---|
| *MW-1* | *14.5* | *5 to TD* | *5/20/1998* |
| *MW-2* | *19.6* | *5 to TD* | *10/2/1999* |
| *MW-3* | *19* | *5 to TD* | *10/2/1999* |
| *PW-1* | *19.8* | *5 to TD* | *4/5/2005* |

# TABLE 2

## Historical Groundwater VOC Analytical Results

## 5930 College Avenue, Oakland, CA

| Well ID | Sample Date | Casing Elevation feet MSL | Depth to GW (feet) TOC | Water Elevation (ft, MSL) | IPB (ug/L) | N-PB (ug/L) | 1,3,5-TMB (ug/L) | 1,2,4-TMB (ug/L) | Naphthalene (ug/L) | TCE (ug/L) | cis-1,2-DCE (ug/L) | Vinyl Chloride (ug/L) | PCE (ug/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1** | 6/7/16 | 195.9 | 8.96 | 186.94 | 39 | 110 | 100 | 370 | 180 | ND<4.2 | ND<4.2 | ND<4.2 | ND<4.2 |
| | **8/17/17** | **195.9** | **10.02** | **185.88** | **31** | **66** | **75** | **580** | **ND<2.0** | **ND<0.5** | **ND<0.5** | **ND<0.5** | **ND<0.5** |
| **MW-2** | 6/7/16 | 197.28 | 8.63 | 188.65 | 30 | 96 | ND<5.3 | ND<5.3 | 32 | ND<5.3 | ND<5.3 | ND<5.3 | ND<5.3 |
| | **8/17/17** | **197.28** | **10.61** | **186.67** | **23** | **9.9** | **1.4** | **5.1** | **16** | **ND<0.5** | **ND<0.5** | **ND<0.5** | **ND<0.5** |
| **MW-3** | 6/7/16 | 195.22 | 10.05 | 185.17 | 16 | 47 | ND<4.2 | ND<4.2 | 17 | ND<4.2 | ND<4.2 | ND<4.2 | ND<4.2 |
| | **8/17/17** | **195.22** | **10.29** | **184.93** | **14** | **31** | **ND<5.0** | **0.55** | **2.6** | **ND<0.5** | **ND<0.5** | **ND<0.5** | **ND<0.5** |
| **PW-1** | 4/14/05 | 197.17 | 6.4 | 190.77 | 11 | 22 | 110 | 100 | 43 | 3.3 | 12 | ND<0.5 | 84.9 |
| | 7/26/05 | | 8.63 | 188.54 | 7.3 | 17 | 37 | 100 | 43 | ND<1 | 7 | ND<1 | 48 |
| | 10/14//05 | | 10.71 | 186.46 | 28 | 72 | 67 | 120 | 43 | 4.1 | 29 | ND<1 | 25 |
| | 1/13/06 | | 4.87 | 192.3 | ND<20 | ND<10 | ND<10 | 37 | ND<10 | 1.4 | 5 | ND<1 | 95 |
| | 4/14/06 | | 2.27 | 194.9 | ND<2 | ND<10 | ND<10 | ND<10 | ND<10 | 1.1 | 2.8 | ND<1 | 68 |
| | 10/26/06 | | 10.3 | 186.87 | ND<10 | ND<50 | ND<50 | ND<50 | ND<50 | 6.2 | 32 | ND<5.0 | 26 |
| | 1/30/07 | | 10.8 | 186.37 | ND<2 | 23 | 31 | 120 | 18 | ND<1 | 11 | ND<1 | 29 |
| | 4/13/07 | | 10.31 | 186.86 | 2.4 | 6.1 | 7 | 30 | 6.8 | 0.84 | 4.7 | ND<0.5 | 64 |
| | 7/24/07 | | 11.81 | 185.36 | ND<5.0 | 60 | ND<25 | ND<25 | ND<25 | ND<2.5 | 58 | ND<2.5 | 50 |
| | 4/21/08 | | 9.08 | 188.09 | 1.1 | ND<5 | ND<5 | 15 | ND<5 | 0.88 | 3.7 | ND<0.5 | 91 |
| | 7/22/08 | | 9.83 | 187.34 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 10/21/08 | | 12.9 | 184.27 | 17 | 14 | 5 | 15 | 5.1 | 6.2 | 56 | 0.6 | 44 |
| | 4/27/09 | | 8.69 | 188.48 | 1.2 | 3.3 | 3.4 | 16 | ND<1.0 | 1.4 | 4 | ND<0.5 | 120 |
| | 10/27/09 | | 10.32 | 186.85 | 6 | 4.8 | ND<0.5 | 15 | ND<1.0 | ND<0.5 | 35 | ND<0.5 | 78 |
| | 10/14/10 | | 11.38 | 185.79 | 9.8 | 15 | 12 | 44 | 4 | 5 | 61 | ND<0.5 | 35 |
| | 6/9/11 | | 7.43 | 189.74 | 0.55 | 1.7 | 0.98 | 3.7 | ND<1.0 | 0.85 | 1.4 | ND<0.5 | 86 |
| | 10/7/11 | | 9.79 | 187.38 | 0.79 | 1.8 | 0.99 | 3.8 | 1.2 | 0.63 | 2 | ND<0.5 | 76 |
| | 10/16/13 | | 11.91 | 185.26 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1.0 | 2.7 | 12 | ND<0.5 | 45 |
| | 4/14/14 | | 12.14 | 185.03 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1.0 | 1.4 | 3.3 | ND<0.5 | 110 |
| | 10/20/14 | | 12.28 | 184.89 | 1.8 | 2.9 | 1 | 2.3 | 2.3 | 6.4 | 33 | ND<0.5 | 36 |
| | 5/13/15 | | 10.06 | 187.11 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1.0 | 2.6 | 2.6 | ND<0.5 | 93 |
| | 11/11/15 | | 14.02 | 181.2 | 0.92 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1.0 | 11 | 43 | ND<0.5 | 39 |
| | 6/7/16 | | 9.7 | 185.52 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1.0 | 6.4 | 12 | ND<0.5 | 79 |
| | 11/21/16 | | 11.32 | 185.85 | ND<0.5 | ND<0.5 | ND<0.5 | 1.7 | ND<2.0 | 9 | 31 | ND<0.5 | 15 |
| | **8/17/17** | | **9.31** | **187.86** | **ND<0.5** | **ND<0.5** | **ND<0.5** | **ND<0.5** | **ND<2.0** | **0.84** | **ND<0.5** | **ND<0.5** | **30** |
| **SF Bay RWQCB February 2016 ESL** | | | | | **NC** | **NC** | **NC** | **NC** | **20** | **5.6** | **110** | **0.061** | **3** |

**Notes Following**

# TABLE 2 (Cont'd)
## Historical Groundwater VOC Analytical Results
## 5930 College Avenue, Oakland, CA

***Table 2 Notes:***

ft, MSL = feet Above Mean Sea Level
TOC = Top of Well Casing
GW = Depth to Groundwater in feet Below TOC
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 = Perchloroethene or 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 - February 2016, Environmental Screening Level for shallow groundwater at a residential use permitted site (Groundwater Vapor Intrusion Human Health Risk)

**Well Construction Data:**

| *Well #* | *Total Well Depth (ft,TOC)* | *Screen Interval (ft)* | *Installation Date* |
|---|---|---|---|
| *MW-1* | *14.5* | *5 to TD* | *4/5/2005* |
| *MW-2* | *19.6* | *5 to TD* | *5/20/1998* |
| *MW-3* | *19* | *5 to TD* | *10/2/1999* |
| *PW-1* | *19.8* | *5 to TD* | *10/2/1999* |

# GROUNDWATER MONITORING REPORT
## 3rd Quarter 2017

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

**ACHCSA Fuel Leak Case No. RO0000377**
**WGE Project # 2016106**

# ATTACHMENT A

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

**Wheeler Group Environmental, LLC**
369-B Third Street, Suite #221, San Rafael, CA 94901

## FLUID-LEVEL MONITORING DATA

Project Name: SHEARS SERVICE GARAGE Date: 8-17-17

Project/Site Location: 5930 COLLEGE AVE OAKLAND CA.

Technician: RICHARD VASQUEZ Method: ELECTRONIC

| Boring/ Well | Depth to Water (feet) | Depth to Product (feet) | Product Thickness (feet) | Total Well Depth (feet) | Comments |
|---|---|---|---|---|---|
| PW-1 | 9.31 | ND | N/A | 19.78 | 1000 |
| MW-1 | 10.02 | | | 14.46 | 1004 |
| MW-2 | 10.61 | | | 19.58 | 1007 |
| MW-3 | 10.29 | | | 19.03 | 1010 |
| | | | | | |
| | | | | | |
| | | 8-17-17 | | | |
| | | | | RVASQ | |
| | | | | | |
| | | | | | |

Measurements referenced to top of well casing. NORTH SHARPE MARK

WELL NUMBER / FIELD POINT ID: DW-1

DATE: 8/17/2017

PROJECT / GLOBAL ID: WGE2016106 / T0600102112

SITE LOCATION: 5930 COLLEGE AVENUE

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

| casing diameter (inches) | *circle one* | 0.75 | 1 | 1.5 | (2) | 4 | 6 |
|---|---|---|---|---|---|---|---|
| casing volumes (gallons/liters) | *circle one* | **0.02**/0.08 | **0.05**/0.19 | **0.15**/0.57 | (**0.2**/0.75) | **0.7**/2.65 | **1.52**/5.75 |

***WELL DATA***

| | |
|---|---|
| SAMPLER/S: | [illegible] |
| WELL NUMBER / FIELD POINT ID: | DW-1 |
| SCREEN INTERVAL (if known): | |
| A. TOTAL WELL DEPTH: | ~~9.31~~ 19.78 |
| B. DEPTH TO WATER: | 9.31 |
| C. WATER HEIGHT (A-B): | 10.47 |
| D. WELL CASING DIAMETER: | 2 |
| E. CASING VOLUME: | 0.2 |
| F. SINGLE CASE VOLUME (CxE): | 2.094 |
| G: 80% RECHARGE LEVEL (F+B): | 11.404 |

***PURGE DATA***

| | |
|---|---|
| START TIME: | 1015 |
| PUMP DEPTH: | 13- |
| FINISH TIME: | 1028 |
| PUMP DEPTH: | 13- |

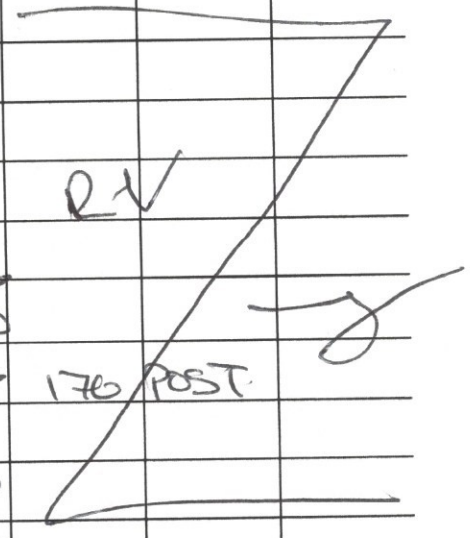
***SAMPLE TIME*** 1030

| | | | |
|---|---|---|---|
| DEPTH TO WATER: | 9.94 | TIME MEASURED: | 1028 |
| SAMPLE APPEARANCE / ODOR: | CLEAR | NO ODOR | |
| ~TOTAL LITERS PURGED: | 2.4 | | |

***WELL FLUID PARAMETERS***

| Time (interval 3 to 5 min.) | 0 | 3 | 6 | 9 | 12 |
|---|---|---|---|---|---|
| ~Total Volume Purged (L) | 0 | .6 | 1.2 | 1.8 | 2.4 |
| pH (su) | 6.50 | 6.50 | 6.49 | 6.51 | 6.49 |
| Temperature (Celsius) | 18.7 | 18.9 | 18.9 | 19.0 | 19.1 |
| COND / SC (us/cm) | 741 | 739 | 738 | 735 | 731 |
| DO (mg/L / %) | 2.58 / 27.6 | 2.43 / 26.4 | 2.37 / 25.8 | 2.41 / 25.4 | 2.36 / 25.0 |
| ORP (mV) | POST 176 | ← | | | → 176 POST |
| DTW (ft.) | 9.31 | 9.50 | 9.69 | 9.78 | 9.94 |
| ~Pump Depth (ft) | 13- | → | | | |
| ~Pump Rate (mL/min.) | 200mL/min | → | | | |

RW



PAGE 1 OF 1

WELL NUMBER / FIELD POINT ID: MW-1

DATE: 8/17/2017

PROJECT / GLOBAL ID: WGE2016106 / T0600102112

SITE LOCATION: 5930 COLLEGE AVENUE

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| casing diameter (inches) | *circle one* | 0.75 | 1 | 1.5 | (2) | 4 | 6 |
| casing volumes (gallons/liters) | *circle one* | **0.02**/0.08 | **0.05**/0.19 | **0.15**/0.57 | (**0.2**/0.75) | **0.7**/2.65 | **1.52**/5.75 |

***WELL DATA***

| | |
|---|---|
| SAMPLER/S: | R. VASQUEZ |
| WELL NUMBER / FIELD POINT ID: | MW-1 |
| SCREEN INTERVAL (if known): | |
| A. TOTAL WELL DEPTH: | 14.46 |
| B. DEPTH TO WATER: | 10.02 |
| C. WATER HEIGHT (A-B): | 4.44 |
| D. WELL CASING DIAMETER: | 2 |
| E. CASING VOLUME: | 0.2 |
| F. SINGLE CASE VOLUME (CxE): | 0.888 |
| G: 80% RECHARGE LEVEL (F+B): | 10.906 |

***PURGE DATA***

| | |
|---|---|
| START TIME: | 1123 |
| PUMP DEPTH: | 12' |
| FINISH TIME: | 1133 |
| PUMP DEPTH: | 12' |

***SAMPLE TIME*** 1135

| | |
|---|---|
| DEPTH TO WATER: 10.57 | TIME MEASURED: 1133 |
| SAMPLE APPEARANCE / ODOR: | CLEAR FUEL ODOR |
| ~TOTAL LITERS PURGED: | 1.8 |

***WELL FLUID PARAMETERS***

| Time (interval 3 to 5 min.) | 0 | 3 | 6 | 9 | | | | |
|---|---|---|---|---|---|---|---|---|
| ~Total Volume Purged (L) | 0 | .6 | 1.2 | 1.8 | | | | |
| pH (su) | 6.44 | 6.36 | 6.34 | 6.33 | | | | |
| Temperature (Celsius) | 20.1 | 20.1 | 20.1 | 20.1 | | | | |
| COND / SC (us/cm) | 2161 | 2020 | 2019 | 2019 | | | | |
| DO (mg/L / %) | 93 / 7.9 | 2.6 / 2.9 | .25 / 2.3 | 5.6 / 1.4 | | | | |
| ORP (mV) | — | — | — | 20 mV | POST | | | |
| DTW (ft.) | 10.02 | 10.21 | 10.48 | 10.57 | | | | |
| ~Pump Depth (ft) | 12' | — | — | — | | | | |
| ~Pump Rate (mL/min.) | 200mL/min | — | — | — | | | | |

WELL NUMBER / FIELD POINT ID: MW-2

DATE: 8/17/2017

PROJECT / GLOBAL ID: WGE2016106 / T0600102112

SITE LOCATION: 5930 COLLEGE AVENUE

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| casing diameter (inches) | circle one | 0.75 | 1 | 1.5 | 2 | 4 | 6 |
| casing volumes (gallons/liters) | circle one | **0.02**/0.08 | **0.05**/0.19 | **0.15**/0.57 | **0.2**/0.75 | **0.7**/2.65 | **1.52**/5.75 |

**WELL DATA**

SAMPLER/S: R. WASEM

WELL NUMBER / FIELD POINT ID: MW-2

SCREEN INTERVAL (if known):

A. TOTAL WELL DEPTH: 19.58

B. DEPTH TO WATER: 10.61

C. WATER HEIGHT (A-B): 8.97

D. WELL CASING DIAMETER: 2

E. CASING VOLUME: 0.2

F. SINGLE CASE VOLUME (CxE): 1.794

G: 80% RECHARGE LEVEL (F+B): 12.404

**PURGE DATA**

START TIME: 1040

PUMP DEPTH: 14'

FINISH TIME: 1051

PUMP DEPTH: 14'

SAMPLE TIME 1053

DEPTH TO WATER: ~~10.61~~ 11.33 TIME MEASURED: 1051

SAMPLE APPEARANCE / ODOR: STRONG FUEL ODOR

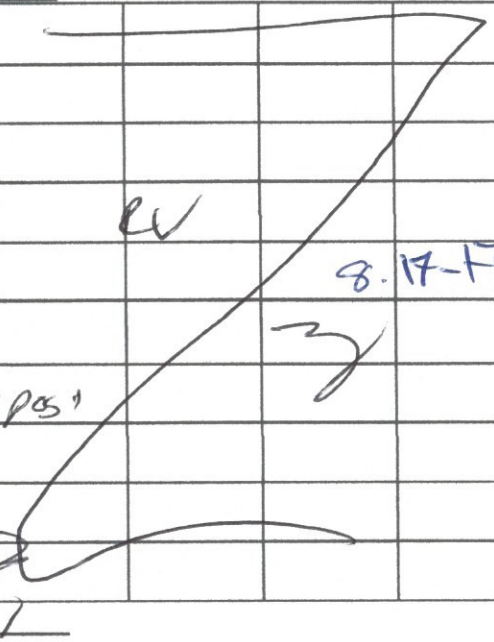
~TOTAL LITERS PURGED: 1.8

**WELL FLUID PARAMETERS**

| Time (interval 3 to 5 min.) | 0 | 3 | 6 | 9 |
|---|---|---|---|---|
| ~Total Volume Purged (L) | 0 | .6 | 1-2 | 1.8 |
| pH (su) | 6.46 | 6.44 | 6.43 | 6.40 |
| Temperature (Celsius) | 18.9 | 19.0 | 19.0 | 19.1 |
| COND / SC (us/cm) | 2709 | 2706 | 2708 | 2710 |
| DO (mg/L / %) | .80 / 10.4 | .84 / 10.3 | .85 / 6.2 | .88 / 6.4 |
| ORP (mV) | | | | 140 mV POS |
| DTW (ft.) | 10.61 | 10.88 | 11.01 | 11.33 |
| ~Pump Depth (ft) | 14' | | | |
| ~Pump Rate (mL/min.) | 200 mL/min | | | |

RV

8.17-17



PAGE 1 OF 1

WELL NUMBER / FIELD POINT ID: MW-3

DATE: 8/17/2017

PROJECT / GLOBAL ID: WGE2016106 / T0600102112

SITE LOCATION: 5930 COLLEGE AVENUE

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

| casing diameter (inches) | *circle one* | 0.75 | 1 | 1.5 | 2 | 4 | 6 |
|---|---|---|---|---|---|---|---|
| casing volumes (gallons/liters) | *circle one* | **0.02**/0.08 | **0.05**/0.19 | **0.15**/0.57 | **0.2**/0.75 | **0.7**/2.65 | **1.52**/5.75 |

***WELL DATA***

| | |
|---|---|
| SAMPLER/S: | R. VASQUEZ |
| WELL NUMBER / FIELD POINT ID: | MW-3 |
| SCREEN INTERVAL (if known): | |
| A. TOTAL WELL DEPTH: | 19.03 |
| B. DEPTH TO WATER: | 10.29 |
| C. WATER HEIGHT (A-B): | 8.74 |
| D. WELL CASING DIAMETER: | 2 |
| E. CASING VOLUME: | 0.2 |
| F. SINGLE CASE VOLUME (CxE): | 1.748 |
| G: 80% RECHARGE LEVEL (F+B): | 12.976 |

***PURGE DATA***

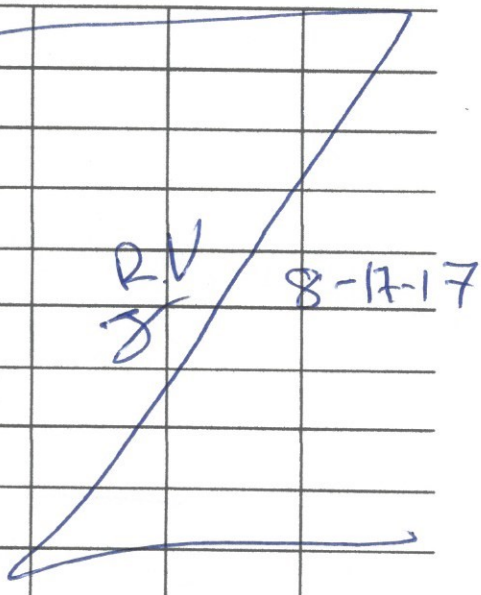
| | |
|---|---|
| START TIME: | 1057 |
| PUMP DEPTH: | 11 |
| FINISH TIME: | 1108 |
| PUMP DEPTH: | 11 |

***SAMPLE TIME*** 1110

| | |
|---|---|
| DEPTH TO WATER: 10.99 | TIME MEASURED: 1108 |
| SAMPLE APPEARANCE / ODOR: | FUEL ODOR |
| ~TOTAL LITERS PURGED: | 1.8 |

***WELL FLUID PARAMETERS***

| Time (interval 3 to 5 min.) | 0 | 3 | 6 | 9 |
|---|---|---|---|---|
| ~Total Volume Purged (L) | 0 | .6 | 1.2 | 1.8 |
| pH (su) | 6.27 | 6.28 | 6.29 | 6.29 |
| Temperature (Celsius) | 19.1 | 19.1 | 19.3 | 19.5 |
| COND / SC (us/cm) | 1531 | 1470 | 1469 | 1465 |
| DO (mg/L / %) | | | | |
| ORP (mV) | | | | 145 POST MV |
| DTW (ft.) | 10.29 | 10.64 | 10.86 | 10.99 |
| ~Pump Depth (ft) | 11 | | | |
| ~Pump Rate (mL/min.) | 200 mL/min | | | |



Brent A. Wheeler
Wheeler Group Environmental, LLC
369-B Third Street, Suite #221
San Rafael, California 94901
Tel: P: 415-686-8846

RE: 5930 College Avenue, Oakland

Work Order No.: 1708149

Dear Brent Wheeler:

Torrent Laboratory, Inc. received 4 sample(s) on August 21, 2017 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.

Belinda Vega
Vice President of Operations

August 25, 2017
Date

**Date:** 8/25/2017

**Client:** Wheeler Group Environmental, LLC

**Project:** 5930 College Avenue, Oakland

**Work Order:** 1708149

## 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.

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Torrent LABORATORY, INC.

# Sample Result Summary

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date Received:** 08/21/17
**Date Reported:** 08/25/17

**MW-1** 1708149-001

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Unit |
|---|---|---|---|---|---|---|
| TPH(Gasoline) | 8260TPH | 84 | 2500 | 4200 | 23100 | ug/L |
| TPH as Diesel | SW8015B | 3 | 0.11 | 0.30 | 2.21 | mg/L |
| TPH as Diesel (SG) | SW8015B | 1 | 0.037 | 0.10 | 0.341 | mg/L |
| MTBE | SW8260B | 1 | 0.077 | 0.50 | 22 | ug/L |
| Bromoform | SW8260B | 1 | 0.076 | 0.50 | 0.88 | ug/L |
| Isopropyl Benzene | SW8260B | 1 | 0.22 | 0.50 | 31 | ug/L |
| n-Propylbenzene | SW8260B | 1 | 0.30 | 0.50 | 66 | ug/L |
| 1,3,5-Trimethylbenzene | SW8260B | 1 | 0.24 | 0.50 | 75 | ug/L |
| Benzene | SW8260B | 84 | 13 | 42 | 2700 | ug/L |
| Toluene | SW8260B | 84 | 12 | 42 | 230 | ug/L |
| Ethyl Benzene | SW8260B | 84 | 16 | 42 | 1100 | ug/L |
| m,p-Xylene | SW8260B | 84 | 33 | 84 | 2400 | ug/L |
| o-Xylene | SW8260B | 84 | 13 | 42 | 690 | ug/L |
| 1,2,4-Trimethylbenzene | SW8260B | 84 | 19 | 42 | 580 | ug/L |

**MW-2** 1708149-002

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Unit |
|---|---|---|---|---|---|---|
| TPH(Gasoline) | 8260TPH | 21 | 610 | 1100 | 3130 | ug/L |
| TPH as Diesel | SW8015B | 2 | 0.074 | 0.20 | 1.97 | mg/L |
| TPH as Diesel (SG) | SW8015B | 1 | 0.037 | 0.10 | 0.601 | mg/L |
| MTBE | SW8260B | 1 | 0.077 | 0.50 | 1.2 | ug/L |
| Benzene | SW8260B | 1 | 0.16 | 0.50 | 49 | ug/L |
| Toluene | SW8260B | 1 | 0.14 | 0.50 | 1.4 | ug/L |
| Ethyl Benzene | SW8260B | 1 | 0.20 | 0.50 | 14 | ug/L |
| m,p-Xylene | SW8260B | 1 | 0.39 | 1.0 | 9.6 | ug/L |
| o-Xylene | SW8260B | 1 | 0.15 | 0.50 | 1.8 | ug/L |
| Isopropyl Benzene | SW8260B | 1 | 0.22 | 0.50 | 23 | ug/L |
| n-Propylbenzene | SW8260B | 1 | 0.30 | 0.50 | 9.9 | ug/L |
| 1,3,5-Trimethylbenzene | SW8260B | 1 | 0.24 | 0.50 | 1.4 | ug/L |
| tert-Butylbenzene | SW8260B | 1 | 0.26 | 0.50 | 0.58 | ug/L |
| 1,2,4-Trimethylbenzene | SW8260B | 1 | 0.23 | 0.50 | 5.1 | ug/L |
| sec-Butyl Benzene | SW8260B | 1 | 0.30 | 0.50 | 8.2 | ug/L |
| p-Isopropyltoluene | SW8260B | 1 | 0.27 | 0.50 | 1.4 | ug/L |
| n-Butylbenzene | SW8260B | 1 | 0.27 | 0.50 | 6.8 | ug/L |
| Naphthalene | SW8260B | 1 | 1.2 | 2.0 | 16 | ug/L |

Torrent LABORATORY, INC.

## Sample Result Summary

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date Received:** 08/21/17
**Date Reported:** 08/25/17

**MW-3** 1708149-003

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Unit |
|---|---|---|---|---|---|---|
| TPH(Gasoline) | 8260TPH | 10.5 | 310 | 530 | 2460 | ug/L |
| TPH as Diesel | SW8015B | 1 | 0.037 | 0.10 | 0.903 | mg/L |
| MTBE | SW8260B | 1 | 0.077 | 0.50 | 15 | ug/L |
| Toluene | SW8260B | 1 | 0.14 | 0.50 | 8.4 | ug/L |
| Ethyl Benzene | SW8260B | 1 | 0.20 | 0.50 | 4.9 | ug/L |
| m,p-Xylene | SW8260B | 1 | 0.39 | 1.0 | 5.0 | ug/L |
| o-Xylene | SW8260B | 1 | 0.15 | 0.50 | 0.67 | ug/L |
| Isopropyl Benzene | SW8260B | 1 | 0.22 | 0.50 | 14 | ug/L |
| n-Propylbenzene | SW8260B | 1 | 0.30 | 0.50 | 31 | ug/L |
| 1,2,4-Trimethylbenzene | SW8260B | 1 | 0.23 | 0.50 | 0.55 | ug/L |
| sec-Butyl Benzene | SW8260B | 1 | 0.30 | 0.50 | 4.2 | ug/L |
| n-Butylbenzene | SW8260B | 1 | 0.27 | 0.50 | 4.5 | ug/L |
| Naphthalene | SW8260B | 1 | 1.2 | 2.0 | 2.6 | ug/L |
| Benzene | SW8260B | 10.5 | 1.6 | 5.3 | 350 | ug/L |

**PW-1** 1708149-004

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Unit |
|---|---|---|---|---|---|---|
| TPH(Gasoline) | 8260TPH | 1 | 29 | 50 | 97.7 | ug/L |
| TPH as Diesel | SW8015B | 1 | 0.037 | 0.10 | 0.141 | mg/L |
| Benzene | SW8260B | 1 | 0.16 | 0.50 | 0.60 | ug/L |
| Trichloroethylene | SW8260B | 1 | 0.15 | 0.50 | 0.84 | ug/L |
| Tetrachloroethylene | SW8260B | 1 | 0.24 | 0.50 | 30 | ug/L |

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | **Lab Sample ID:** | 1708149-001A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:35 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | SW8260B | 1 | 0.26 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Chloromethane | SW8260B | 1 | 0.17 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Vinyl Chloride | SW8260B | 1 | 0.21 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Bromomethane | SW8260B | 1 | 0.21 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Chloroethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Trichlorofluoromethane | SW8260B | 1 | 0.19 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,1-Dichloroethene | SW8260B | 1 | 0.14 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Freon 113 | SW8260B | 1 | 0.34 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Methylene Chloride | SW8260B | 1 | 0.13 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| trans-1,2-Dichloroethene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| MTBE | SW8260B | 1 | 0.077 | 0.50 | **22** | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| tert-Butanol | SW8260B | 1 | 7.4 | 10 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Diisopropyl ether (DIPE) | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,1-Dichloroethane | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| ETBE | SW8260B | 1 | 0.064 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| cis-1,2-Dichloroethene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 2,2-Dichloropropane | SW8260B | 1 | 0.094 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Bromochloromethane | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Chloroform | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Carbon Tetrachloride | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,1,1-Trichloroethane | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,1-Dichloropropene | SW8260B | 1 | 0.19 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| TAME | SW8260B | 1 | 0.072 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,2-Dichloroethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Trichloroethylene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Dibromomethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,2-Dichloropropane | SW8260B | 1 | 0.089 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Bromodichloromethane | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| cis-1,3-Dichloropropene | SW8260B | 1 | 0.078 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Tetrachloroethylene | SW8260B | 1 | 0.24 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| trans-1,3-Dichloropropene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,1,2-Trichloroethane | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Dibromochloromethane | SW8260B | 1 | 0.18 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,3-Dichloropropane | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | **Lab Sample ID:** | 1708149-001A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:35 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dibromoethane | SW8260B | 1 | 0.079 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Chlorobenzene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,1,1,2-Tetrachloroethane | SW8260B | 1 | 0.087 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Styrene | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Bromoform | SW8260B | 1 | 0.076 | 0.50 | **0.88** | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Isopropyl Benzene | SW8260B | 1 | 0.22 | 0.50 | **31** | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| n-Propylbenzene | SW8260B | 1 | 0.30 | 0.50 | **66** | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Bromobenzene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,1,2,2-Tetrachloroethane | SW8260B | 1 | 0.079 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 2-Chlorotoluene | SW8260B | 1 | 0.25 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,3,5-Trimethylbenzene | SW8260B | 1 | 0.24 | 0.50 | **75** | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,2,3-Trichloropropane | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 4-Chlorotoluene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| tert-Butylbenzene | SW8260B | 1 | 0.26 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| sec-Butyl Benzene | SW8260B | 1 | 0.30 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| p-Isopropyltoluene | SW8260B | 1 | 0.27 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,3-Dichlorobenzene | SW8260B | 1 | 0.17 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,4-Dichlorobenzene | SW8260B | 1 | 0.18 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| n-Butylbenzene | SW8260B | 1 | 0.27 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,2-Dichlorobenzene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,2-Dibromo-3-Chloropropane | SW8260B | 1 | 0.76 | 2.0 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Hexachlorobutadiene | SW8260B | 1 | 0.62 | 2.0 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,2,4-Trichlorobenzene | SW8260B | 1 | 0.93 | 2.0 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| Naphthalene | SW8260B | 1 | 1.2 | 2.0 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| 1,2,3-Trichlorobenzene | SW8260B | 1 | 1.2 | 2.0 | ND | | ug/L | 08/23/17 | 22:29 | BP | 426345 |
| (S) Dibromofluoromethane | SW8260B | | 61.2 - 131 | | **120** | | % | 08/23/17 | 22:29 | BP | 426345 |
| (S) Toluene-d8 | SW8260B | | 75.1 - 127 | | **91.0** | | % | 08/23/17 | 22:29 | BP | 426345 |
| (S) 4-Bromofluorobenzene | SW8260B | | 64.1 - 120 | | **93.1** | | % | 08/23/17 | 22:29 | BP | 426345 |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | **Lab Sample ID:** | 1708149-001A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:35 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | SW8260B | 84 | 13 | 42 | **2700** | | ug/L | 08/23/17 | 22:58 | BP | 426345 |
| Toluene | SW8260B | 84 | 12 | 42 | **230** | | ug/L | 08/23/17 | 22:58 | BP | 426345 |
| Ethyl Benzene | SW8260B | 84 | 16 | 42 | **1100** | | ug/L | 08/23/17 | 22:58 | BP | 426345 |
| m,p-Xylene | SW8260B | 84 | 33 | 84 | **2400** | | ug/L | 08/23/17 | 22:58 | BP | 426345 |
| o-Xylene | SW8260B | 84 | 13 | 42 | **690** | | ug/L | 08/23/17 | 22:58 | BP | 426345 |
| 1,2,4-Trimethylbenzene | SW8260B | 84 | 19 | 42 | **580** | | ug/L | 08/23/17 | 22:58 | BP | 426345 |
| (S) Dibromofluoromethane | SW8260B | | 61.2 - 131 | | **122** | | % | 08/23/17 | 22:58 | BP | 426345 |
| (S) Toluene-d8 | SW8260B | | 75.1 - 127 | | **96.3** | | % | 08/23/17 | 22:58 | BP | 426345 |
| (S) 4-Bromofluorobenzene | SW8260B | | 64.1 - 120 | | **98.1** | | % | 08/23/17 | 22:58 | BP | 426345 |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | **Lab Sample ID:** | 1708149-001A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:35 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030GRO | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9210 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH(Gasoline) | 8260TPH | 84 | 2500 | 4200 | **23100** | x | ug/L | 08/23/17 | 22:58 | BP | 426345 |
| (S) 4-Bromofluorobenzene | 8260TPH | | 41.5 - 125 | | **106** | | % | 08/23/17 | 22:58 | BP | 426345 |

**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
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | **Lab Sample ID:** | 1708149-001B |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:35 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 3510_TPH | **Prep Batch Date/Time:** | 8/23/17 10:11:00PM |
| **Prep Batch ID:** | 9205 | **Prep Analyst:** | LIMBAT |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | SW8015B | 3 | 0.11 | 0.30 | **2.21** | x | mg/L | 08/25/17 | 9:59 | mk | 426362 |
| | | | Acceptance Limits | | | | | | | | |
| Pentacosane (S) | SW8015B | | 59 - 129 | | **80.5** | | % | 08/25/17 | 9:59 | mk | 426362 |

**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
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | **Lab Sample ID:** | 1708149-001B |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:35 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 3510_TPH SG | **Prep Batch Date/Time:** | 8/23/17 10:10:00AM |
| **Prep Batch ID:** | 9257 | **Prep Analyst:** | LIMBAT |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel (SG) | SW8015B | 1 | 0.037 | 0.10 | **0.341** | x | mg/L | 08/25/17 | 8:07 | mk | 426382 |
| | | | Acceptance Limits | | | | | | | | |
| Pentacosane (S) | SW8015B | | 59 - 129 | | **87.8** | | % | 08/25/17 | 8:07 | mk | 426382 |

**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
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2 | **Lab Sample ID:** | 1708149-002A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:53 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | SW8260B | 1 | 0.26 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Chloromethane | SW8260B | 1 | 0.17 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Vinyl Chloride | SW8260B | 1 | 0.21 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Bromomethane | SW8260B | 1 | 0.21 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Chloroethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Trichlorofluoromethane | SW8260B | 1 | 0.19 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,1-Dichloroethene | SW8260B | 1 | 0.14 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Freon 113 | SW8260B | 1 | 0.34 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Methylene Chloride | SW8260B | 1 | 0.13 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| trans-1,2-Dichloroethene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| MTBE | SW8260B | 1 | 0.077 | 0.50 | **1.2** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| tert-Butanol | SW8260B | 1 | 7.4 | 10 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Diisopropyl ether (DIPE) | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,1-Dichloroethane | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| ETBE | SW8260B | 1 | 0.064 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| cis-1,2-Dichloroethene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 2,2-Dichloropropane | SW8260B | 1 | 0.094 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Bromochloromethane | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Chloroform | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Carbon Tetrachloride | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,1,1-Trichloroethane | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,1-Dichloropropene | SW8260B | 1 | 0.19 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Benzene | SW8260B | 1 | 0.16 | 0.50 | **49** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| TAME | SW8260B | 1 | 0.072 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2-Dichloroethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Trichloroethylene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Dibromomethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2-Dichloropropane | SW8260B | 1 | 0.089 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Bromodichloromethane | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| cis-1,3-Dichloropropene | SW8260B | 1 | 0.078 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Toluene | SW8260B | 1 | 0.14 | 0.50 | **1.4** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Tetrachloroethylene | SW8260B | 1 | 0.24 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| trans-1,3-Dichloropropene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,1,2-Trichloroethane | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2 | **Lab Sample ID:** | 1708149-002A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:53 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | SW8260B | 1 | 0.18 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,3-Dichloropropane | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2-Dibromoethane | SW8260B | 1 | 0.079 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Chlorobenzene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Ethyl Benzene | SW8260B | 1 | 0.20 | 0.50 | **14** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,1,1,2-Tetrachloroethane | SW8260B | 1 | 0.087 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| m,p-Xylene | SW8260B | 1 | 0.39 | 1.0 | **9.6** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| o-Xylene | SW8260B | 1 | 0.15 | 0.50 | **1.8** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Styrene | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Bromoform | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Isopropyl Benzene | SW8260B | 1 | 0.22 | 0.50 | **23** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| n-Propylbenzene | SW8260B | 1 | 0.30 | 0.50 | **9.9** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Bromobenzene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,1,2,2-Tetrachloroethane | SW8260B | 1 | 0.079 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 2-Chlorotoluene | SW8260B | 1 | 0.25 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,3,5-Trimethylbenzene | SW8260B | 1 | 0.24 | 0.50 | **1.4** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2,3-Trichloropropane | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 4-Chlorotoluene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| tert-Butylbenzene | SW8260B | 1 | 0.26 | 0.50 | **0.58** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2,4-Trimethylbenzene | SW8260B | 1 | 0.23 | 0.50 | **5.1** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| sec-Butyl Benzene | SW8260B | 1 | 0.30 | 0.50 | **8.2** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| p-Isopropyltoluene | SW8260B | 1 | 0.27 | 0.50 | **1.4** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,3-Dichlorobenzene | SW8260B | 1 | 0.17 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,4-Dichlorobenzene | SW8260B | 1 | 0.18 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| n-Butylbenzene | SW8260B | 1 | 0.27 | 0.50 | **6.8** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2-Dichlorobenzene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2-Dibromo-3-Chloropropane | SW8260B | 1 | 0.76 | 2.0 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Hexachlorobutadiene | SW8260B | 1 | 0.62 | 2.0 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2,4-Trichlorobenzene | SW8260B | 1 | 0.93 | 2.0 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| Naphthalene | SW8260B | 1 | 1.2 | 2.0 | **16** | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| 1,2,3-Trichlorobenzene | SW8260B | 1 | 1.2 | 2.0 | ND | | ug/L | 08/23/17 | 23:28 | BP | 426345 |
| (S) Dibromofluoromethane | SW8260B | | 61.2 - 131 | | **113** | | % | 08/23/17 | 23:28 | BP | 426345 |
| (S) Toluene-d8 | SW8260B | | 75.1 - 127 | | **101** | | % | 08/23/17 | 23:28 | BP | 426345 |
| (S) 4-Bromofluorobenzene | SW8260B | | 64.1 - 120 | | **101** | | % | 08/23/17 | 23:28 | BP | 426345 |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2 | **Lab Sample ID:** | 1708149-002A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:53 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | | | |
|---|---|---|---|---|---|
| **Prep Method:** | 5030GRO | **Prep Batch Date/Time:** | 8/23/17 | 3:25:00PM |
| **Prep Batch ID:** | 9210 | **Prep Analyst:** | BPATEL | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH(Gasoline) | 8260TPH | 21 | 610 | 1100 | **3130** | x | ug/L | 08/24/17 | 0:00 | BP | 426345 |
| (S) 4-Bromofluorobenzene | 8260TPH | | 41.5 - 125 | | **113** | | % | 08/24/17 | 0:00 | BP | 426345 |

**NOTE:** x – Does not match pattern of reference Gasoline standard. Hydrocarbons in the range of C5-C12 quantified as Gasoline.

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2 | **Lab Sample ID:** | 1708149-002B |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:53 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 3510_TPH | **Prep Batch Date/Time:** | 8/23/17 10:11:00PM |
| **Prep Batch ID:** | 9205 | **Prep Analyst:** | LIMBAT |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | SW8015B | 2 | 0.074 | 0.20 | **1.97** | x | mg/L | 08/25/17 | 10:22 | mk | 426362 |
| | | | Acceptance Limits | | | | | | | | |
| Pentacosane (S) | SW8015B | | 59 - 129 | | **76.4** | | % | 08/25/17 | 10:22 | mk | 426362 |

**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
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2 | **Lab Sample ID:** | 1708149-002B |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:53 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 3510_TPH SG | **Prep Batch Date/Time:** | 8/23/17 10:10:00AM |
| **Prep Batch ID:** | 9257 | **Prep Analyst:** | LIMBAT |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel (SG) | SW8015B | 1 | 0.037 | 0.10 | **0.601** | x | mg/L | 08/25/17 | 8:29 | mk | 426382 |
| | | | Acceptance Limits | | | | | | | | |
| Pentacosane (S) | SW8015B | | 59 - 129 | | **95.0** | | % | 08/25/17 | 8:29 | mk | 426382 |

**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
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3 | **Lab Sample ID:** | 1708149-003A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:10 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | SW8260B | 1 | 0.26 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Chloromethane | SW8260B | 1 | 0.17 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Vinyl Chloride | SW8260B | 1 | 0.21 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Bromomethane | SW8260B | 1 | 0.21 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Chloroethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Trichlorofluoromethane | SW8260B | 1 | 0.19 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,1-Dichloroethene | SW8260B | 1 | 0.14 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Freon 113 | SW8260B | 1 | 0.34 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Methylene Chloride | SW8260B | 1 | 0.13 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| trans-1,2-Dichloroethene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| MTBE | SW8260B | 1 | 0.077 | 0.50 | **15** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| tert-Butanol | SW8260B | 1 | 7.4 | 10 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Diisopropyl ether (DIPE) | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,1-Dichloroethane | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| ETBE | SW8260B | 1 | 0.064 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| cis-1,2-Dichloroethene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 2,2-Dichloropropane | SW8260B | 1 | 0.094 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Bromochloromethane | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Chloroform | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Carbon Tetrachloride | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,1,1-Trichloroethane | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,1-Dichloropropene | SW8260B | 1 | 0.19 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| TAME | SW8260B | 1 | 0.072 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2-Dichloroethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Trichloroethylene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Dibromomethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2-Dichloropropane | SW8260B | 1 | 0.089 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Bromodichloromethane | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| cis-1,3-Dichloropropene | SW8260B | 1 | 0.078 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Toluene | SW8260B | 1 | 0.14 | 0.50 | **8.4** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Tetrachloroethylene | SW8260B | 1 | 0.24 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| trans-1,3-Dichloropropene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,1,2-Trichloroethane | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Dibromochloromethane | SW8260B | 1 | 0.18 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3 | **Lab Sample ID:** | 1708149-003A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:10 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichloropropane | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2-Dibromoethane | SW8260B | 1 | 0.079 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Chlorobenzene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Ethyl Benzene | SW8260B | 1 | 0.20 | 0.50 | **4.9** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,1,1,2-Tetrachloroethane | SW8260B | 1 | 0.087 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| m,p-Xylene | SW8260B | 1 | 0.39 | 1.0 | **5.0** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| o-Xylene | SW8260B | 1 | 0.15 | 0.50 | **0.67** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Styrene | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Bromoform | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Isopropyl Benzene | SW8260B | 1 | 0.22 | 0.50 | **14** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| n-Propylbenzene | SW8260B | 1 | 0.30 | 0.50 | **31** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Bromobenzene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,1,2,2-Tetrachloroethane | SW8260B | 1 | 0.079 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 2-Chlorotoluene | SW8260B | 1 | 0.25 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,3,5-Trimethylbenzene | SW8260B | 1 | 0.24 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2,3-Trichloropropane | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 4-Chlorotoluene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| tert-Butylbenzene | SW8260B | 1 | 0.26 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2,4-Trimethylbenzene | SW8260B | 1 | 0.23 | 0.50 | **0.55** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| sec-Butyl Benzene | SW8260B | 1 | 0.30 | 0.50 | **4.2** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| p-Isopropyltoluene | SW8260B | 1 | 0.27 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,3-Dichlorobenzene | SW8260B | 1 | 0.17 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,4-Dichlorobenzene | SW8260B | 1 | 0.18 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| n-Butylbenzene | SW8260B | 1 | 0.27 | 0.50 | **4.5** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2-Dichlorobenzene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2-Dibromo-3-Chloropropane | SW8260B | 1 | 0.76 | 2.0 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Hexachlorobutadiene | SW8260B | 1 | 0.62 | 2.0 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2,4-Trichlorobenzene | SW8260B | 1 | 0.93 | 2.0 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| Naphthalene | SW8260B | 1 | 1.2 | 2.0 | **2.6** | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| 1,2,3-Trichlorobenzene | SW8260B | 1 | 1.2 | 2.0 | ND | | ug/L | 08/24/17 | 0:32 | BP | 426345 |
| (S) Dibromofluoromethane | SW8260B | | 61.2 - 131 | | **120** | | % | 08/24/17 | 0:32 | BP | 426345 |
| (S) Toluene-d8 | SW8260B | | 75.1 - 127 | | **98.7** | | % | 08/24/17 | 0:32 | BP | 426345 |
| (S) 4-Bromofluorobenzene | SW8260B | | 64.1 - 120 | | **100** | | % | 08/24/17 | 0:32 | BP | 426345 |

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3 | **Lab Sample ID:** | 1708149-003A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:10 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | SW8260B | 10.5 | 1.6 | 5.3 | **350** | | ug/L | 08/24/17 | 1:05 | BP | 426345 |
| (S) Dibromofluoromethane | SW8260B | | 61.2 - 131 | | **122** | | % | 08/24/17 | 1:05 | BP | 426345 |
| (S) Toluene-d8 | SW8260B | | 75.1 - 127 | | **96.1** | | % | 08/24/17 | 1:05 | BP | 426345 |
| (S) 4-Bromofluorobenzene | SW8260B | | 64.1 - 120 | | **105** | | % | 08/24/17 | 1:05 | BP | 426345 |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3 | **Lab Sample ID:** | 1708149-003A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:10 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030GRO | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9210 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH(Gasoline) | 8260TPH | 10.5 | 310 | 530 | **2460** | x | ug/L | 08/24/17 | 1:05 | BP | 426345 |
| (S) 4-Bromofluorobenzene | 8260TPH | | 41.5 - 125 | | **90.6** | | % | 08/24/17 | 1:05 | BP | 426345 |

**NOTE:** x – Does not match pattern of reference Gasoline standard. Hydrocarbons in the range of C5-C12 quantified as Gasoline.

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3 | **Lab Sample ID:** | 1708149-003B |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 11:10 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 3510_TPH | **Prep Batch Date/Time:** | 8/23/17 10:11:00PM |
| **Prep Batch ID:** | 9205 | **Prep Analyst:** | LIMBAT |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | SW8015B | 1 | 0.037 | 0.10 | **0.903** | x | mg/L | 08/24/17 | 21:19 | mk | 426362 |
| | | | Acceptance Limits | | | | | | | | |
| Pentacosane (S) | SW8015B | | 59 - 129 | | **103** | | % | 08/24/17 | 21:19 | mk | 426362 |

**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
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | PW-1 | **Lab Sample ID:** | 1708149-004A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:30 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | SW8260B | 1 | 0.26 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Chloromethane | SW8260B | 1 | 0.17 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Vinyl Chloride | SW8260B | 1 | 0.21 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Bromomethane | SW8260B | 1 | 0.21 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Chloroethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Trichlorofluoromethane | SW8260B | 1 | 0.19 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,1-Dichloroethene | SW8260B | 1 | 0.14 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Freon 113 | SW8260B | 1 | 0.34 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Methylene Chloride | SW8260B | 1 | 0.13 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| trans-1,2-Dichloroethene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| MTBE | SW8260B | 1 | 0.077 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| tert-Butanol | SW8260B | 1 | 7.4 | 10 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Diisopropyl ether (DIPE) | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,1-Dichloroethane | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| ETBE | SW8260B | 1 | 0.064 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| cis-1,2-Dichloroethene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 2,2-Dichloropropane | SW8260B | 1 | 0.094 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Bromochloromethane | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Chloroform | SW8260B | 1 | 0.12 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Carbon Tetrachloride | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,1,1-Trichloroethane | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,1-Dichloropropene | SW8260B | 1 | 0.19 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Benzene | SW8260B | 1 | 0.16 | 0.50 | **0.60** | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| TAME | SW8260B | 1 | 0.072 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2-Dichloroethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Trichloroethylene | SW8260B | 1 | 0.15 | 0.50 | **0.84** | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Dibromomethane | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2-Dichloropropane | SW8260B | 1 | 0.089 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Bromodichloromethane | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| cis-1,3-Dichloropropene | SW8260B | 1 | 0.078 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Toluene | SW8260B | 1 | 0.14 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Tetrachloroethylene | SW8260B | 1 | 0.24 | 0.50 | **30** | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| trans-1,3-Dichloropropene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,1,2-Trichloroethane | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |

Torrent LABORATORY, INC.

# SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | PW-1 | **Lab Sample ID:** | 1708149-004A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:30 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 5030VOC | **Prep Batch Date/Time:** | 8/23/17 3:25:00PM |
| **Prep Batch ID:** | 9208 | **Prep Analyst:** | BPATEL |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | SW8260B | 1 | 0.18 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,3-Dichloropropane | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2-Dibromoethane | SW8260B | 1 | 0.079 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Chlorobenzene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Ethyl Benzene | SW8260B | 1 | 0.20 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,1,1,2-Tetrachloroethane | SW8260B | 1 | 0.087 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| m,p-Xylene | SW8260B | 1 | 0.39 | 1.0 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| o-Xylene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Styrene | SW8260B | 1 | 0.11 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Bromoform | SW8260B | 1 | 0.076 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Isopropyl Benzene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| n-Propylbenzene | SW8260B | 1 | 0.30 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Bromobenzene | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,1,2,2-Tetrachloroethane | SW8260B | 1 | 0.079 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 2-Chlorotoluene | SW8260B | 1 | 0.25 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,3,5-Trimethylbenzene | SW8260B | 1 | 0.24 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2,3-Trichloropropane | SW8260B | 1 | 0.15 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 4-Chlorotoluene | SW8260B | 1 | 0.22 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| tert-Butylbenzene | SW8260B | 1 | 0.26 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2,4-Trimethylbenzene | SW8260B | 1 | 0.23 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| sec-Butyl Benzene | SW8260B | 1 | 0.30 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| p-Isopropyltoluene | SW8260B | 1 | 0.27 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,3-Dichlorobenzene | SW8260B | 1 | 0.17 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,4-Dichlorobenzene | SW8260B | 1 | 0.18 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| n-Butylbenzene | SW8260B | 1 | 0.27 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2-Dichlorobenzene | SW8260B | 1 | 0.16 | 0.50 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2-Dibromo-3-Chloropropane | SW8260B | 1 | 0.76 | 2.0 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Hexachlorobutadiene | SW8260B | 1 | 0.62 | 2.0 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2,4-Trichlorobenzene | SW8260B | 1 | 0.93 | 2.0 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| Naphthalene | SW8260B | 1 | 1.2 | 2.0 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| 1,2,3-Trichlorobenzene | SW8260B | 1 | 1.2 | 2.0 | ND | | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| (S) Dibromofluoromethane | SW8260B | | 61.2 - 131 | | **113** | | % | 08/24/17 | 1:37 | BP | 426345 |
| (S) Toluene-d8 | SW8260B | | 75.1 - 127 | | **92.1** | | % | 08/24/17 | 1:37 | BP | 426345 |
| (S) 4-Bromofluorobenzene | SW8260B | | 64.1 - 120 | | **100** | | % | 08/24/17 | 1:37 | BP | 426345 |

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | PW-1 | **Lab Sample ID:** | 1708149-004A |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:30 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | | | |
|---|---|---|---|---|---|
| **Prep Method:** | 5030GRO | **Prep Batch Date/Time:** | 8/23/17 | 3:25:00PM |
| **Prep Batch ID:** | 9210 | **Prep Analyst:** | BPATEL | |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH(Gasoline) | 8260TPH | 1 | 29 | 50 | **97.7** | x | ug/L | 08/24/17 | 1:37 | BP | 426345 |
| (S) 4-Bromofluorobenzene | 8260TPH | | 41.5 - 125 | | **98.1** | | % | 08/24/17 | 1:37 | BP | 426345 |

**NOTE:** x - Does not match pattern of reference Gasoline standard. Reported TPH value due to discrete peak and non-target heavy hydrocarbons within range of C5-C12 quantified as gasoline.

Torrent LABORATORY, INC.

## SAMPLE RESULTS

**Report prepared for:** Brent Wheeler
Wheeler Group Environmental, LLC

**Date/Time Received:** 08/21/17, 12:43 pm
**Date Reported:** 08/25/17

| | | | |
|---|---|---|---|
| **Client Sample ID:** | PW-1 | **Lab Sample ID:** | 1708149-004B |
| **Project Name/Location:** | 5930 College Avenue, Oakland | **Sample Matrix:** | Groundwater |
| **Project Number:** | 3rd Qtr 2017 Groundwater Monitoring/Samp | | |
| **Date/Time Sampled:** | 08/17/17 / 10:30 | | |
| **SDG:** | | | |
| **Tag Number:** | 5930 College Ave | | |

| | | | |
|---|---|---|---|
| **Prep Method:** | 3510_TPH | **Prep Batch Date/Time:** | 8/23/17 10:11:00PM |
| **Prep Batch ID:** | 9205 | **Prep Analyst:** | LIMBAT |

| Parameters: | Analysis Method | DF | MDL | PQL | Results | Q | Units | Analyzed | Time | By | Analytical Batch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | SW8015B | 1 | 0.037 | 0.10 | **0.141** | x | mg/L | 08/24/17 | 21:42 | mk | 426362 |
| | | | Acceptance Limits | | | | | | | | |
| Pentacosane (S) | SW8015B | | 59 - 129 | | **111** | | % | 08/24/17 | 21:42 | mk | 426362 |

**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.

# MB Summary Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 3510_TPH | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9205 |
| **Matrix:** | Water | **Analytical Method:** | SW8015B | **Analyzed Date:** | 8/24/2017 | **Analytical Batch:** | 426362 |
| **Units:** | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|---|---|---|---|---|
| TPH as Diesel | 0.037 | 0.10 | 0.0533 | |
| TPH as Motor Oil | 0.11 | 0.40 | ND | |
| Pentacosane (S) | | | 99.9 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 5030VOC | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9208 |
| **Matrix:** | Water | **Analytical Method:** | SW8260B | **Analyzed Date:** | 8/23/2017 | **Analytical Batch:** | 426345 |
| **Units:** | ug/L | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|---|---|---|---|---|
| Dichlorodifluoromethane | 0.26 | 0.50 | ND | |
| Chloromethane | 0.17 | 0.50 | ND | |
| Vinyl Chloride | 0.21 | 0.50 | ND | |
| Bromomethane | 0.21 | 0.50 | ND | |
| Chloroethane | 0.11 | 0.50 | ND | |
| Trichlorofluoromethane | 0.19 | 0.50 | ND | |
| 1,1-Dichloroethene | 0.14 | 0.50 | ND | |
| Freon 113 | 0.34 | 0.50 | ND | |
| Methylene Chloride | 0.13 | 0.50 | ND | |
| trans-1,2-Dichloroethene | 0.16 | 0.50 | ND | |
| MTBE | 0.077 | 0.50 | ND | |
| tert-Butanol | 7.4 | 10 | ND | |
| Diisopropyl ether (DIPE) | 0.12 | 0.50 | ND | |
| 1,1-Dichloroethane | 0.12 | 0.50 | ND | |
| ETBE | 0.064 | 0.50 | ND | |
| cis-1,2-Dichloroethene | 0.15 | 0.50 | ND | |
| 2,2-Dichloropropane | 0.094 | 0.50 | ND | |
| Bromochloromethane | 0.15 | 0.50 | ND | |
| Chloroform | 0.12 | 0.50 | ND | |
| Carbon Tetrachloride | 0.16 | 0.50 | ND | |
| 1,1,1-Trichloroethane | 0.16 | 0.50 | ND | |
| 1,1-Dichloropropene | 0.19 | 0.50 | 0.34 | |
| Benzene | 0.16 | 0.50 | ND | |
| TAME | 0.072 | 0.50 | ND | |
| 1,2-Dichloroethane | 0.11 | 0.50 | ND | |
| Trichloroethylene | 0.15 | 0.50 | ND | |
| Dibromomethane | 0.11 | 0.50 | ND | |
| 1,2-Dichloropropane | 0.089 | 0.50 | ND | |
| Bromodichloromethane | 0.076 | 0.50 | ND | |

Torrent LABORATORY, INC.

# MB Summary Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 5030VOC | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9208 |
| **Matrix:** | Water | **Analytical Method:** | SW8260B | **Analyzed Date:** | 8/23/2017 | **Analytical Batch:** | 426345 |
| **Units:** | ug/L | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|---|---|---|---|---|
| cis-1,3-Dichloropropene | 0.078 | 0.50 | ND | |
| Toluene | 0.14 | 0.50 | ND | |
| Tetrachloroethylene | 0.24 | 0.50 | ND | |
| trans-1,3-Dichloropropene | 0.22 | 0.50 | ND | |
| 1,1,2-Trichloroethane | 0.076 | 0.50 | 0.080 | |
| Dibromochloromethane | 0.18 | 0.50 | ND | |
| 1,3-Dichloropropane | 0.22 | 0.50 | ND | |
| 1,2-Dibromoethane | 0.079 | 0.50 | ND | |
| Chlorobenzene | 0.16 | 0.50 | ND | |
| Ethyl Benzene | 0.20 | 0.50 | ND | |
| 1,1,1,2-Tetrachloroethane | 0.087 | 0.50 | ND | |
| m,p-Xylene | 0.39 | 1.0 | ND | |
| o-Xylene | 0.15 | 0.50 | ND | |
| Styrene | 0.11 | 0.50 | 0.24 | |
| Bromoform | 0.076 | 0.50 | ND | |
| Isopropyl Benzene | 0.22 | 0.50 | ND | |
| n-Propylbenzene | 0.30 | 0.50 | ND | |
| Bromobenzene | 0.15 | 0.50 | ND | |
| 1,1,2,2-Tetrachloroethane | 0.079 | 0.50 | 0.090 | |
| 2-Chlorotoluene | 0.25 | 0.50 | ND | |
| 1,3,5-Trimethylbenzene | 0.24 | 0.50 | ND | |
| 1,2,3-Trichloropropane | 0.15 | 0.50 | ND | |
| 4-Chlorotoluene | 0.22 | 0.50 | ND | |
| tert-Butylbenzene | 0.26 | 0.50 | ND | |
| 1,2,4-Trimethylbenzene | 0.23 | 0.50 | ND | |
| sec-Butyl Benzene | 0.30 | 0.50 | ND | |
| p-Isopropyltoluene | 0.27 | 0.50 | ND | |
| 1,3-Dichlorobenzene | 0.17 | 0.50 | ND | |
| 1,4-Dichlorobenzene | 0.18 | 0.50 | ND | |
| n-Butylbenzene | 0.27 | 0.50 | ND | |
| 1,2-Dichlorobenzene | 0.16 | 0.50 | ND | |
| 1,2-Dibromo-3-Chloropropane | 0.76 | 2.0 | ND | |
| Hexachlorobutadiene | 0.62 | 2.0 | ND | |
| 1,2,4-Trichlorobenzene | 0.93 | 2.0 | ND | |
| Naphthalene | 1.2 | 2.0 | ND | |
| 1,2,3-Trichlorobenzene | 1.2 | 2.0 | ND | |
| (S) Dibromofluoromethane | | | 113 | |
| (S) Toluene-d8 | | | 99.0 | |
| (S) 4-Bromofluorobenzene | | | 92.6 | |

# MB Summary Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 5030GRO | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9210 |
| **Matrix:** | Water | **Analytical Method:** | SW8260B | **Analyzed Date:** | 8/23/2017 | **Analytical Batch:** | 426345 |
| **Units:** | ug/L | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|---|---|---|---|---|
| TPH(Gasoline) | 29 | 50 | 48 | |
| (S) 4-Bromofluorobenzene | | | 118 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 3510_TPH SG | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9257 |
| **Matrix:** | Water | **Analytical Method:** | SW8015B | **Analyzed Date:** | 8/25/2017 | **Analytical Batch:** | 426382 |
| **Units:** | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Lab Qualifier |
|---|---|---|---|---|
| TPH as Diesel (SG) | 0.037 | 0.10 | 0.0532 | |
| TPH as Motor Oil (SG) | 0.11 | 0.40 | ND | |
| Pentacosane (S) | | | 77.1 | |

Torrent LABORATORY, INC.

# LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 3510_TPH | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9205 |
| **Matrix:** | Water | **Analytical Method:** | SW8015B | **Analyzed Date:** | 8/24/2017 | **Analytical Batch:** | 426362 |
| **Units:** | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel | 0.037 | 0.10 | 0.0533 | 1.0 | 94.1 | 102 | 8.06 | 52 - 115 | 30 | |
| Pentacosane (S) | | | | 200 | 96.4 | 106 | | 59 - 129 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 5030VOC | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9208 |
| **Matrix:** | Water | **Analytical Method:** | SW8260B | **Analyzed Date:** | 8/23/2017 | **Analytical Batch:** | 426345 |
| **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 | 17.9 | 128 | 99.2 | 25.6 | 61.4 - 129 | 30 | |
| Benzene | 0.16 | 0.50 | ND | 17.9 | 101 | 105 | 3.26 | 66.9 - 140 | 30 | |
| Trichloroethylene | 0.15 | 0.50 | ND | 17.9 | 105 | 116 | 10.1 | 69.3 - 144 | 30 | |
| Toluene | 0.14 | 0.50 | ND | 17.9 | 101 | 109 | 6.93 | 76.6 - 123 | 30 | |
| Chlorobenzene | 0.16 | 0.50 | ND | 17.9 | 95.3 | 102 | 7.37 | 73.9 - 137 | 30 | |
| (S) Dibromofluoromethane | | | | 17.9 | 102 | 107 | | 61.2 - 131 | | |
| (S) Toluene-d8 | | | | 17.9 | 101 | 112 | | 75.1 - 127 | | |
| (S) 4-Bromofluorobenzene | | | | 17.9 | 92.7 | 101 | | 64.1 - 120 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 5030GRO | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9210 |
| **Matrix:** | Water | **Analytical Method:** | SW8260B | **Analyzed Date:** | 8/24/2017 | **Analytical Batch:** | 426345 |
| **Units:** | ug/L | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH(Gasoline) | 29 | 50 | 48 | 238 | 101 | 84.8 | 17.2 | 52.4 - 127 | 30 | |
| (S) 4-Bromofluorobenzene | | | | 11.9 | 106 | 94.1 | | 41.5 - 125 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Work Order:** | 1708149 | **Prep Method:** | 3510_TPH SG | **Prep Date:** | 08/23/17 | **Prep Batch:** | 9257 |
| **Matrix:** | Water | **Analytical Method:** | SW8015B | **Analyzed Date:** | 8/25/2017 | **Analytical Batch:** | 426382 |
| **Units:** | mg/Kg | | | | | | |

| Parameters | MDL | PQL | Method Blank Conc. | Spike Conc. | LCS % Recovery | LCSD % Recovery | LCS/LCSD % RPD | % Recovery Limits | % RPD Limits | Lab Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH as Diesel (SG) | 0.037 | 0.10 | 0.0532 | 1.0 | 103 | 80.0 | 25.1 | 52 - 115 | 30 | |
| TPH as Motor Oil (SG) | | | ND | 200 | | | | 59 - 129 | | |

# 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/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ)** - 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/RLs/LODs 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 analyte 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
**ND** - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
**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: Wheeler Group Environmental, LLC

Project Name: 5930 College Avenue, Oakland

Work Order No.: 1708149

Date and Time Received: 8/21/2017 12:43:00PM

Received By: Kathie Evans

Physically Logged By: Helena Ueng

Checklist Completed By:

Carrier Name: FedEx

**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? | Temperature: 0.0 °C |
| Water-VOA vials have zero headspace? | No VOA vials submitted |
| Water-pH acceptable upon receipt? | N/A |

pH Checked by: N/A

pH Adjusted by: N/A

**Comments:**

- received 3 extra un-labeled voas not marked for analysis on CoC

# Login Summary Report

**Client ID:** TL6291 Wheeler Group Environmental, LLC
**Project Name:** 5930 College Avenue, Oakland
**Project # :** 3rd Qtr 2017 Groundwater Monitoring/Sampling
**Report Due Date:** 8/24/2017

**QC Level:** II
**TAT Requested:** 3 Day Std:3
**Date Received:** 8/21/2017
**Time Received:** 12:43 pm

**Comments:**

**Work Order # :** ***1708149***

| WO Sample ID | Client Sample ID | Collection Date/Time | Matrix | Scheduled Disposal | Sample On Hold | Test On Hold | Requested Tests | Subbed |
|---|---|---|---|---|---|---|---|---|
| 1708149-001A | MW-1 | 08/17/17 11:35 | Water | 10/05/17 | | | VOC_W_GRO<br>VOC_W_8260B | |
| 1708149-001B | MW-1 | 08/17/17 11:35 | Water | 10/05/17 | | | TPHDO_W_8015B(M)<br>TPHDOSG_W_8015B | |
| **Sample Note:** | TPH-D: with & without silica gel for -001B, -002B; Without sg ONLY for -003B, -004B. | | | | | | | |
| 1708149-002A | MW-2 | 08/17/17 10:53 | Water | 10/05/17 | | | VOC_W_GRO<br>VOC_W_8260B | |
| 1708149-002B | MW-2 | 08/17/17 10:53 | Water | 10/05/17 | | | TPHDO_W_8015B(M)<br>TPHDOSG_W_8015B | |
| 1708149-003A | MW-3 | 08/17/17 11:10 | Water | 10/05/17 | | | VOC_W_GRO<br>VOC_W_8260B | |
| 1708149-003B | MW-3 | 08/17/17 11:10 | Water | 10/05/17 | | | TPHDO_W_8015B(M) | |
| 1708149-004A | PW-1 | 08/17/17 10:30 | Water | 10/05/17 | | | VOC_W_GRO<br>VOC_W_8260B | |
| 1708149-004B | PW-1 | 08/17/17 10:30 | Water | 10/05/17 | | | TPHDO_W_8015B(M) | |

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: 1708149

| | |
|---|---|
| Company Name: Wheeler Group Environmental, LLC | Location of Sampling: 5930 College Avenue, Oakland |
| Address: 369-B Third Street, Suite #221 | Purpose: 3rd Quarter 2017 Groundwater Monitoring/Sampling |
| City: San Rafael State: CA Zip Code: 94901 | Special Instructions / Comments: Global ID: T0600102112. Field Point ID=Sample ID |
| Telephone: 415-686-8846 FAX: | |
| REPORT TO: Brent Wheeler SAMPLER: DEI | P.O. #: WGE 2016106 EMAIL: bwheeler@wheelergroupenvironmental.cor |

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) | VOCs (Full List) | TPH-D (8015M) | TPH-D w/ SGCU | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 001A/B | MW-1 | 8-17-17/ 1135 | GW | 6 | Misc. | ✓ | ✓ | ✓ | ✓ | Rcvd 7 cont. |
| 002A/B | MW-2 | 8-17-17/ 1053 | GW | 7 | Misc. | ✓ | ✓ | ✓ | ✓ | Rcvd 7 cont. |
| 003A/B | MW-3 | 8-17-17/ 1110 | GW | 6 | Misc. | ✓ | ✓ | ✓ | | Rcvd 6 cont. |
| 004A/B | PW-1 | 8-17-17/ 1050 | GW | 7 | Misc. | ✓ | ✓ | ✓ | | Rcvd 6 cont. |

| | Relinquished By: | Print: | Date: | Time: | Received By: | Print: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|
| 1 | [signature] | | 8-17-17 | 1600 | FEDEX | | 1600 | 8/17/17 |
| 2 | [signature] | FEDEX | 8-18-17 | FED EX | [signature] | | | |

Were Samples Received in Good Condition? ☑ Yes ☐ NO Samples on Ice? ☑ Yes ☐ NO Method of Shipment: Fed Ex City 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. 0°C #1

Page 1 of 1

Log In By: Relinquished: [signature] Date: 8/21/17 12:43PM

Log In Reviewed By: Rec'd: Katrina Date: 8-21-17 12:43

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 - 3rd Quarter 2017** |
| **Report Type:** | **Monitoring Report - Semi-Annually** |
| **Facility Global ID:** | **T0600102112** |
| **Facility Name:** | **SHEAFFS SERVICE GARAGE** |
| **File Name:** | **1708149 WGP College Ave EDF.zip** |
| **Organization Name:** | **Wheeler Group Environmental, LLC** |
| **Username:** | **WGE** |
| **IP Address:** | **76.126.107.191** |
| **Submittal Date/Time:** | **9/14/2017 11:37:29 AM** |
| **Confirmation Number:** | **7044534504** |

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 - 3rd Quarter 2017** |
| **Facility Global ID:** | **T0600102112** |
| **Facility Name:** | **SHEAFFS SERVICE GARAGE** |
| **File Name:** | **GEO_WELL.zip** |
| **Organization Name:** | **Wheeler Group Environmental, LLC** |
| **Username:** | **WGE** |
| **IP Address:** | **76.126.107.191** |
| **Submittal Date/Time:** | **9/14/2017 11:38:47 AM** |
| **Confirmation Number:** | **8856405854** |

# EPA On-line Tools for Site Assessment Calculation

**Hydraulic Gradient -- Magnitude and Direction**

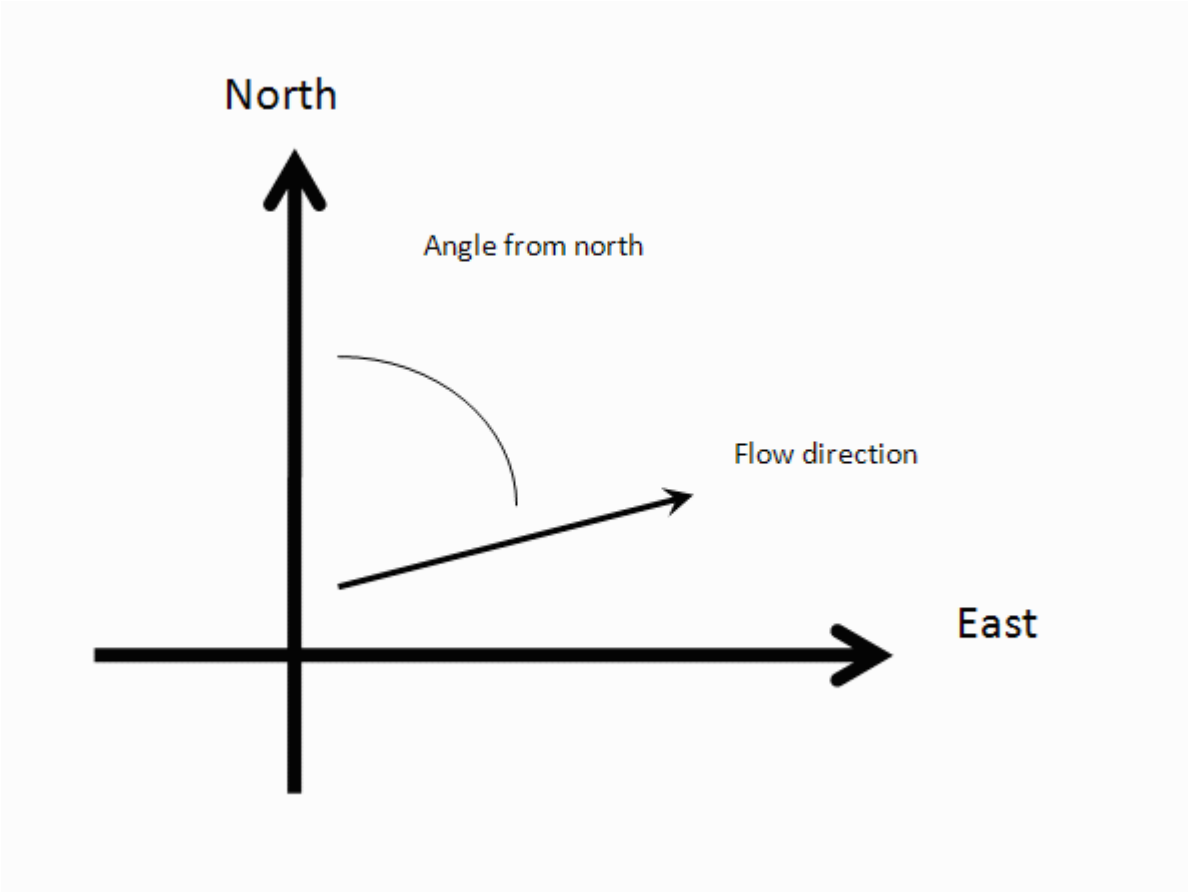
**Gradient Calculation** from fitting a plane to as many as thirty points

$a\,x_1 + b\,y_1 + c = h_1$
$a\,x_2 + b\,y_2 + c = h_2$
$a\,x_3 + b\,y_3 + c = h_3$
. . .
$a\,x_{30} + b\,y_{30} + c = h_{30}$

where $(x_i,y_i)$ are the coordinates of the well and
$h_i$ is the head

i = 1,2,3, ... , 30
The coefficients a, b, and c are calculated by a least-squares fitting of the the data to a plane

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




**Inputs**

Example Data Set 1 | Example Data Set 2 | Calculate | Clear

Save Data | Recall Data | Go Back

Site Name: 5930 College Avenue

Date: August 17, 2017 | Current Date

Calculation basis: Head ▼

Coordinates: ft ▼

| | I.D. | x-coordinate | y-coordinate | head ft ▼ |
|---|---|---|---|---|
| 1) | MW-1 | 6055822.91 | 2135878.96 | 185.88 |
| 2) | MW-3 | 6055818.98 | 2135842.80 | 184.93 |
| 3) | PW-1 | 6055924.91 | 2135914.96 | 187.86 |
| 4) | | | | |
| 5) | | | | |
| 6) | | | | |
| 7) | | | | |

| | | | | |
|---|---|---|---|---|
| 8) | | | | |
| 9) | | | | |
| 10) | | | | |
| 11) | | | | |
| 12) | | | | |
| 13) | | | | |
| 14) | | | | |
| 15) | | | | |
| 16) | | | | |
| 17) | | | | |
| 18) | | | | |
| 19) | | | | |
| 20) | | | | |
| 21) | | | | |
| 22) | | | | |
| 23) | | | | |
| 24) | | | | |
| 25) | | | | |
| 26) | | | | |
| 27) | | | | |
| 28) | | | | |
| 29) | | | | |
| 30) | | | | |

**Results**

| | |
|---|---|
| Number of Points Used in Calculation | 3 |
| Max. Difference Between Head Values | 0.8931 |
| Gradient Magnitude (i) | 0.02725 |
| Flow direction as degrees from North (positive y axis) | 202.8 |
| Coefficient of Determination ($R^2$) | 1.00 |

WCMS

Last updated on 2/23/2016

# NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE

**GENERATOR**

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. | Manifest Document No. 091817 | 2. Page 1 of 1 |
|---|---|---|---|

3. Generator's Name and Mailing Address: Stauder Automotive, 5930 College Ave, Oakland, CA 94618

4. Generator's Phone ( )

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. State Transporter's ID |
|---|---|---|
| Big Sky Environmental Solutions | CAL 000 346010 | B. Transporter 1 Phone 800-479-7993 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | C. State Transporter's ID |
| | | D. Transporter 2 Phone |
| 9. Designated Facility Name and Site Address: Big Sky Enterprises, 401 W. Chamol Rd, Benicia, CA 94510 | 10. US EPA ID Number: CAL 000 301 639 | E. State Facility's ID |
| | | F. Facility's Phone 800-479-7993 |

| 11. WASTE DESCRIPTION | Containers No. | Containers Type | 13. Total Quantity | 14. Unit Wt./Vol. |
|---|---|---|---|---|
| a. Non Hazardous Waste Liquid (Purge Water) | 001 | DM | 55 | G |
| b. | | | | |
| c. | | | | |
| d. | | | | |

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Wear PPE Emergency Contact: Jeff Rhodes

**16. GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

| Printed/Typed Name | Signature | Date Month | Day | Year |
|---|---|---|---|---|
| John Accacian | | 9 | 19 | 17 |

**TRANSPORTER**

| 17. Transporter 1 Acknowledgement of Receipt of Materials | | Date Month | Day | Year |
|---|---|---|---|---|
| Printed/Typed Name: Jeff Rhodes | Signature | | | |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | Date Month | Day | Year |
| Printed/Typed Name | Signature | | | |

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

| Printed/Typed Name | Signature | Date Month | Day | Year |
|---|---|---|---|---|
| | | | | |