

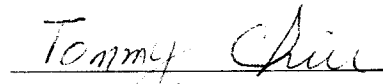
With respect to:

Groundwater Monitoring Report Second Half 2016

Dated 10/27/2016

Fuel Leak Case No. RO0000196

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


Mr. Tommy Chiu

10-27-16

Date

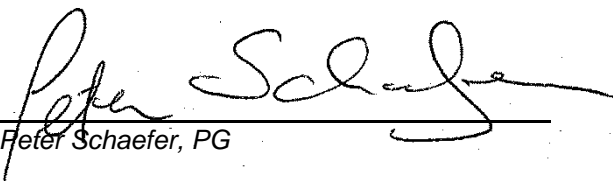


Groundwater Monitoring Report – Second Half 2016

800 Franklin Street
Oakland, California

Prepared for: Chen Tso "Tommy" Chiu


Bryan Fong


Peter Schaefer, PG

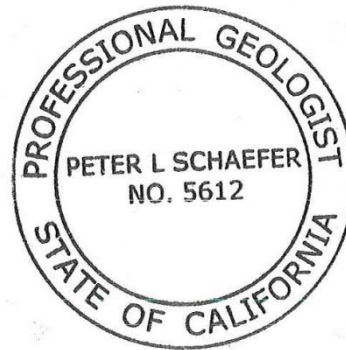




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1. Introduction

On behalf of Mr. Tommy Chiu, GHD Services Inc (GHD) is submitting this *Groundwater Monitoring Report – Second Half 2016* for the Chiu Property located at 800 Franklin Street in Oakland, California (**Figure 1**). This groundwater monitoring event was conducted in accordance with directives issued by Alameda County Department of Environmental Health (ACEH).

On August 22, 2016, Chiu family representatives and GHD met with ACEH to discuss the path forward to closure. ACEH’s September 14, 2016 electronic correspondence summarize the meeting and requested historical tables and figures, information on the down-gradient Bay Area Rapid Transit (BART) sump, and an additional round of groundwater analysis for volatile organic compounds (VOCs) by October 30, 2016. The VOC data are included herein and the historical tables and figures and BART sump information will be provided under separate cover

1.1 Site Information

| | |
|--------------------------------------|------------------------------|
| Site Address | 800 Franklin Street, Oakland |
| Site Use | Commercial Building |
| Client and Contact | Tommy Chiu |
| Consultant and Contact Person | GHD, Bryan A. Fong |
| Lead Agency and Contact | ACEH, Kit Soo, P.G. |
| Agency Case No. | RO0000196 |

2. Site Activities and Results

2.1. Current Sampling Event Activities

On September 13, 2016, Confluence Environmental, Inc. (Confluence) conducted groundwater monitoring and sampling activities at the subject site. Water levels were measured and groundwater samples were collected in wells MW-1, MW-2, MW-3A, and MW-4 through MW-7 (see **Figures 2 and 3**). Well construction details are provided in **Table 1**. GHD’s *Standard Field Procedures for Groundwater Monitoring and Sampling* is presented as **Appendix A**. The laboratory analytical report and sample chain of custody (COC) documents are presented as **Appendix B**. Copies of the field data sheets are included as **Appendix C**.

2.1.1 Water Level Measurements

Depth-to-water measurements were recorded to the nearest 0.01-foot from the surveyed reference elevation on the top of the well casing (TOC). Measurements were collected using a conductance-actuated well sounder. Depth to groundwater and calculated groundwater elevation data are presented in **Table 2**.



2.1.2 Groundwater Sampling

Groundwater monitoring included low-flow well purging, measuring groundwater parameters, and sample collection.

Each well was purged prior to sampling using the low-flow purging technique. Each well was purged using a peristaltic pump with minimal drawdown at a flow rate between 200 and 600 milliliters per minute. Depth to water was measured prior to, during, and at the termination of low-flow purging, and also immediately prior to sample collection. Temperature, pH, conductivity, oxygen reduction potential and dissolved oxygen (DO) were measured initially and at regular volume intervals. Well purging continued until consecutive pH, specific conductivity, DO, and temperature measurements were relatively stable. Field measurements, purge volumes, and sample collection data were recorded on field sampling data sheets, included as **Appendix C**.

Groundwater samples were collected from each well using the peristaltic pump. The samples were decanted into 40-milliliter (mL) glass volatile organic analysis (VOA) vials supplied by McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. Sample containers were labeled, sealed in a plastic bag, placed on ice in a chilled cooler, and transported under COC to McCampbell, a State-certified laboratory, for analysis. The COC used for this monitoring event is included in **Appendix B**.

2.1.3 Equipment Decontamination

To minimize the potential for cross-contamination to occur, the groundwater monitoring equipment was decontaminated prior to being deployed in the first well, and again between each successive well. The tubing for the peristaltic pump was discarded after use at each well.

2.1.4 Sample Analysis

Groundwater samples collected during the Second Half event were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and TPH as diesel (TPHd) with silica gel clean-up by modified Environmental Protection Agency (EPA) Method 8015Bm, and VOCs by EPA Method 8260B.

2.2. Second Half 2016 Monitoring and Sampling Event Results

| | |
|--|---------------------|
| Groundwater Flow Direction | West-northwest |
| Hydraulic Gradient | 0.005 |
| Measured Groundwater Depth from Top of Casing in Monitoring Wells | 22.71 to 23.67 feet |
| Measureable Separate Phase Hydrocarbons | None |

2.2.1 Groundwater Flow Direction and Gradient

Groundwater elevations were calculated by subtracting the depth-to-water measurements from the surveyed TOC elevations. Groundwater elevations were plotted on a site plan and contoured.



Based on depth-to-water data collected during the Second Half 2016 monitoring event, groundwater flow direction was calculated as westerly at a gradient of 0.005. Depth-to-water and groundwater elevation data for the site are presented in **Table 2** and summarized on **Figure 2**.

2.2.2 Groundwater Analytical Results

A summary of the petroleum hydrocarbon concentrations detected in groundwater samples during this event are detailed in the following table and benzene and MTBE data are presented on **Figure 2** and historical groundwater petroleum hydrocarbon data is presented in **Table 2**.

Table A: Hydrocarbon Groundwater Analytical Data

| Well ID | TPHd (µg/L) | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | Naphthalene (µg/L) |
|---------|-------------|-------------|----------------|----------------|---------------------|----------------------|-------------|--------------------|
| MW-1 | <50 | NS<50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-2 | 2,300 | 37,000 | 1,900 | 2,200 | 1,400 | 4,800 | <50 | 280 |
| MW-3A | 1,800 | 26,000 | 3,000 | 200 | 890 | 3,300 | <50 | 210 |
| MW-4 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-5 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-6 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-7 | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |

µg/L = Micrograms per liter
 <n = Constituent was not detected at or above laboratory reporting limit

The laboratory notes that gasoline compounds are significant in the TPHd detections in wells MW-2, and MW-3A suggesting that the TPHd detections may be due to gasoline-range hydrocarbons.

Benzene concentrations detected monitoring wells MW-2 and MW-3A continue to exhibit a stable to slightly decreasing trend and no benzene was detected in MW-6 for the first time since December of 2004 (see **Appendix D**). Naphthalene was detected in wells MW-2 and MW-3A at concentrations of 280 and 210 µg/L, respectively. The petroleum hydrocarbon plume is adequately defined, less than 100 ft in length, and continues to exhibit immobility (**Figure 3**).

Other VOCs detected in wells MW-2, MW-3A, MW-4, MW-5, and MW-7 are summarized below in the following table and historical groundwater VOC data is presented in **Table 3**.

Table B: Other VOC Groundwater Analytical Data

| Well ID | Chloroform (µg/L) | PCE (µg/L) | n-Propylbenzene (µg/L) | 1,2,4-Trimethylbenzene (µg/L) | 1,3,5-Trimethylbenzene (µg/L) |
|---------|-------------------|------------|------------------------|-------------------------------|-------------------------------|
| MW-2 | <50 | <50 | 100 | 750 | 150 |
| MW-3A | <50 | <50 | 91 | 790 | 230 |
| MW-4 | 0.63 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-5 | 0.71 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-7 | <0.50 | 0.77 | <0.50 | <0.50 | <0.50 |

PCE = Tetrachloroethene
 <n = Constituent was not detected at or above laboratory reporting limit



Low concentrations of chloroform were detected in wells MW-4 and MW-5 and PCE was detected in well MW-7. Based on the low detected concentrations and the absence of these constituents detected in source area well MW-2, groundwater does not appear to be impacted by the former 1,000-gallon solvent UST. The detected concentrations of chloroform and PCE are below the San Francisco Bay Regional Water Quality Control Board (RWQCB) Tier 1 environmental screening levels (ESLs) of 2.3 and 3.0 µg/L, respectively. No ESLs currently exist for 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and n-propylbenzene. No other VOCs were detected in any of the wells during this groundwater monitoring event.

The laboratory analytical report and sample COC documents are presented as **Appendix B**

2.2.3 GeoTracker Submittal

Data from the Second Half 2016 monitoring event was uploaded to the GeoTracker database.

3. Proposed Activities for the Remaining Second Half 2016

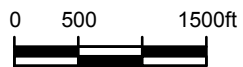
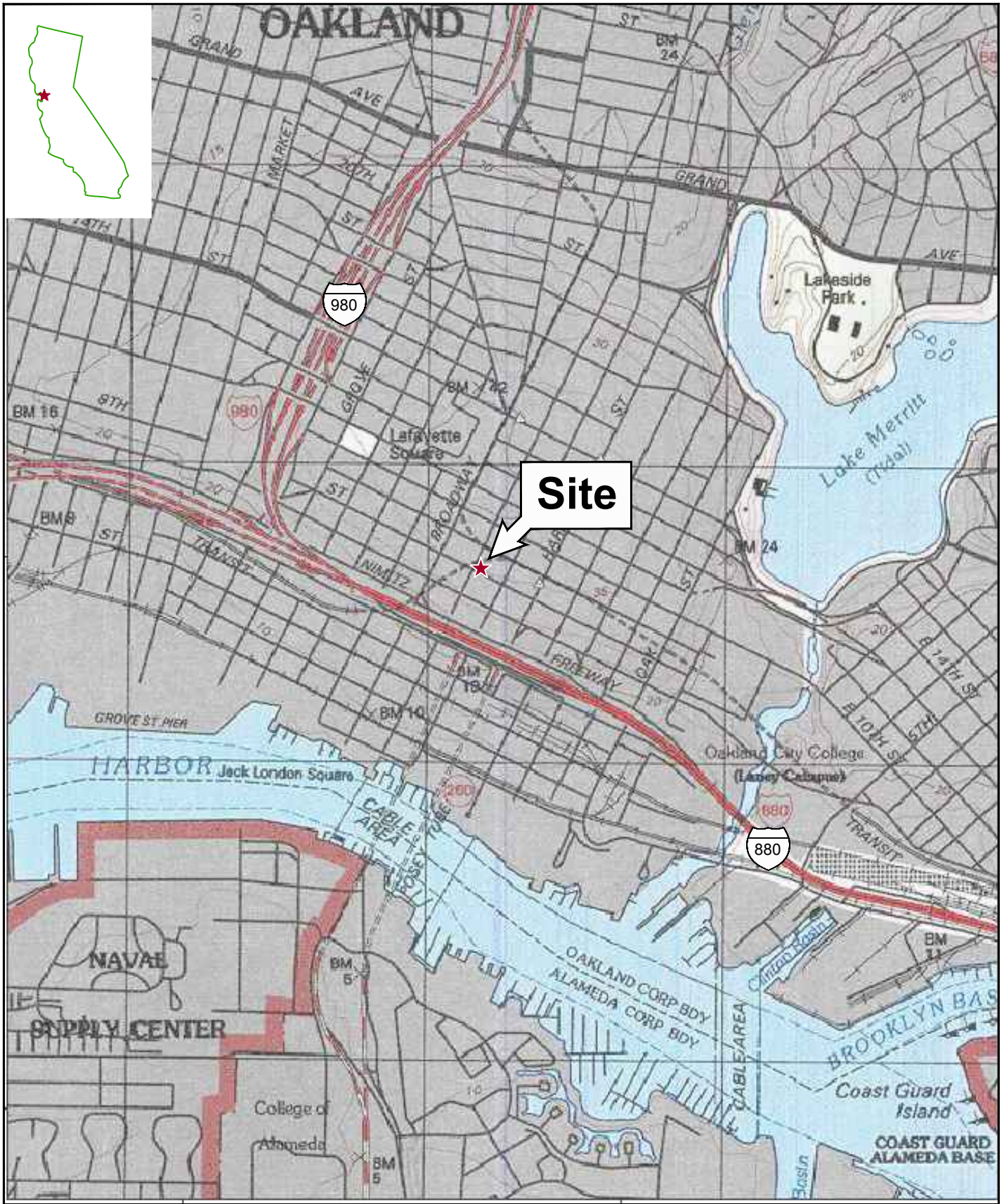
As requested in ACEH's September 14, 2016 electronic correspondence, GHD will submit historical tables and figures and information on the down-gradient BART sump under separate cover by October 30, 2016.

Based on the site conceptual model and stable groundwater monitoring results the site appears to qualify for case closure under the California State Water Resources Control Board's (SWRCB's) *Low Threat Underground Storage Tank Closure Policy* (the Policy). As discussed in the August 22, 2016 meeting, GHD plans to prepare and submit a case closure request during the Second Half 2016.

4. Proposed Activities for First Half 2017

GHD will destroy the wells following ACEH's approval of the low-threat closure request.

Figures



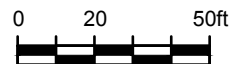
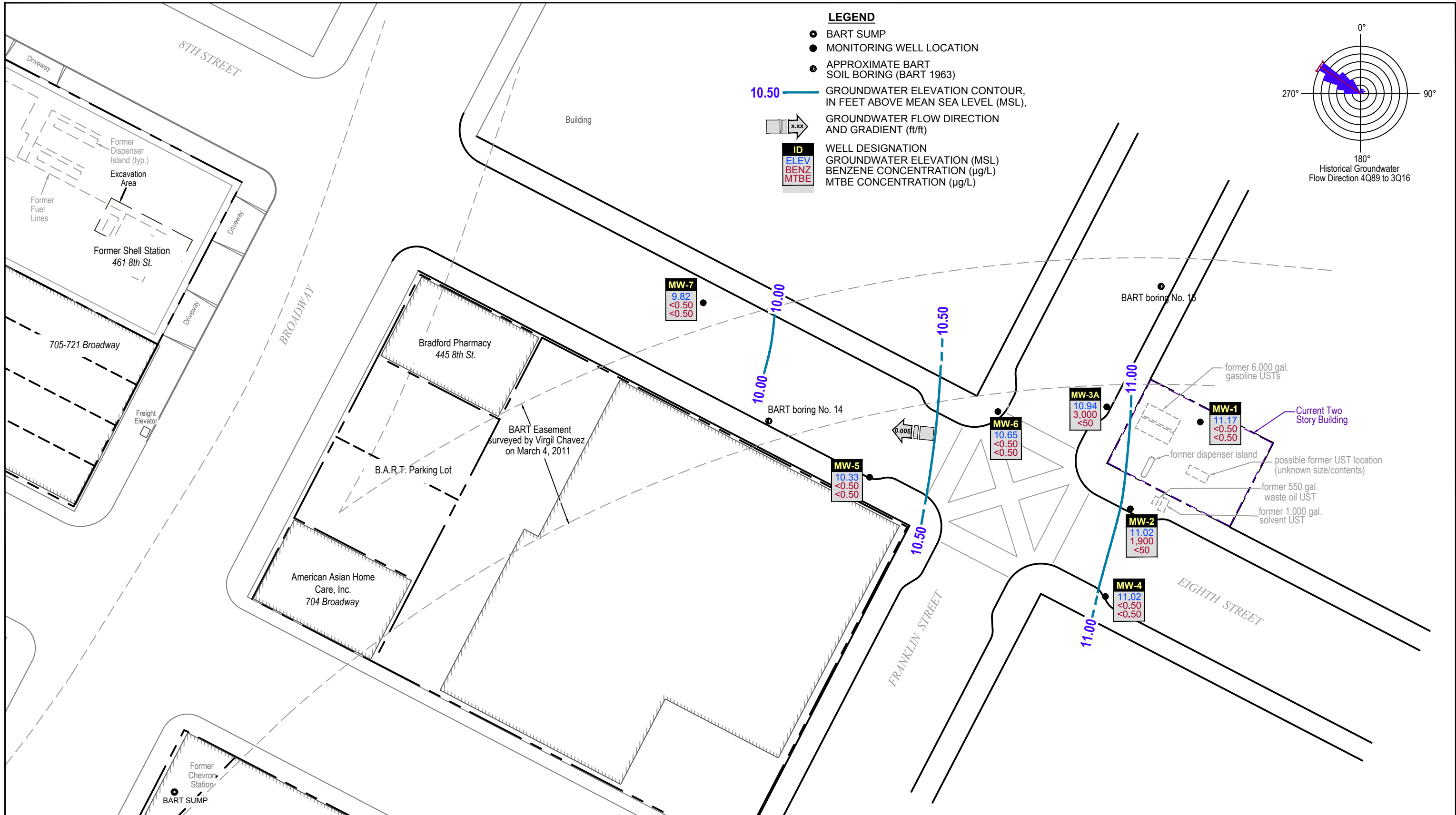
CHIU PROPERTY
800 FRANKLIN STREET
OAKLAND, CALIFORNIA

VICINITY MAP

581000-070

Oct 13, 2016

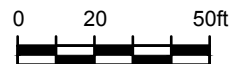
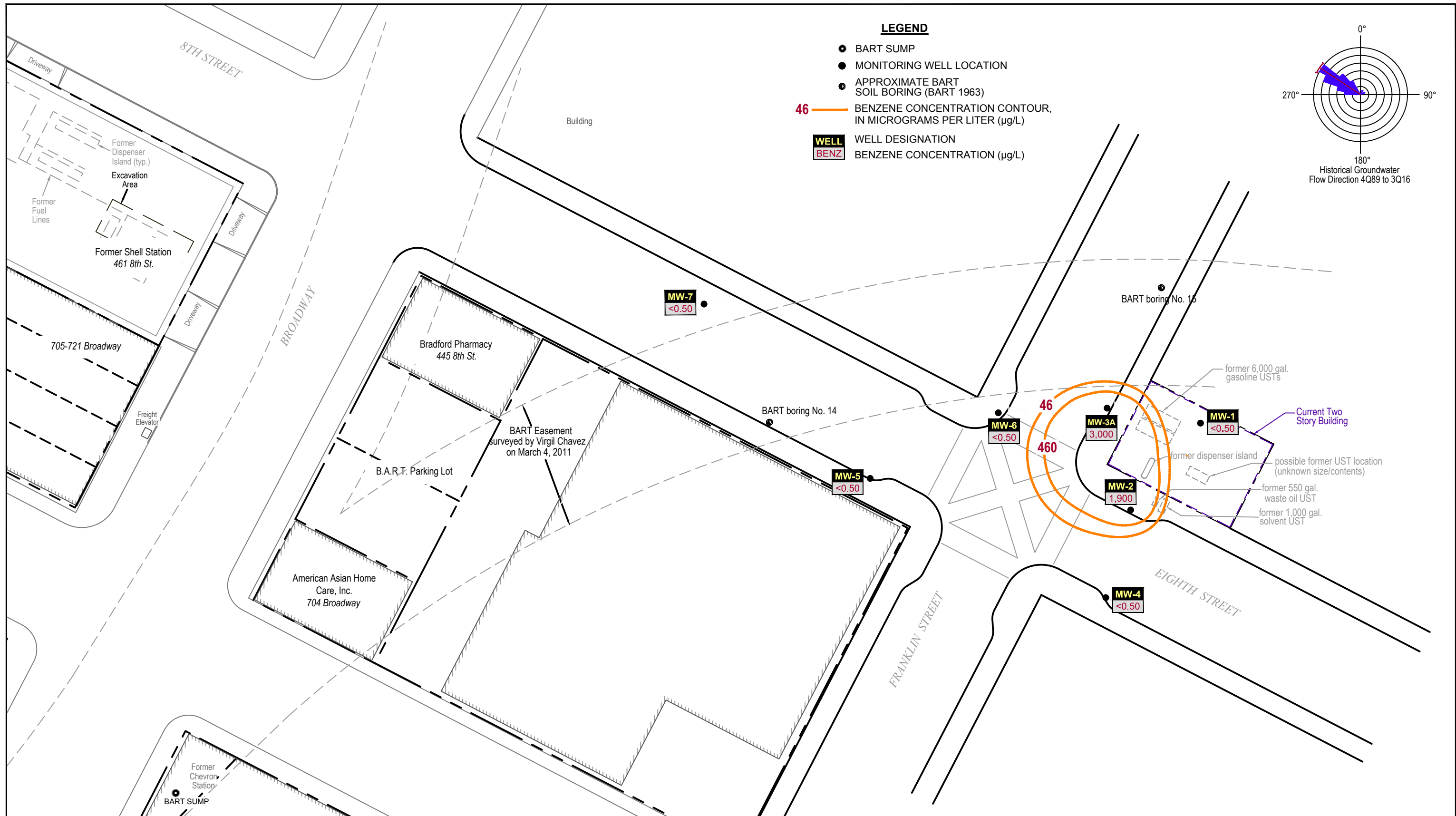
Figure 1



CHIU PROPERTY
 800 FRANKLIN STREET
 OAKLAND, CALIFORNIA
 GROUNDWATER ELEVATION CONTOUR and
 HYDROCARBON CONCENTRATION MAP - SEPTEMBER 13, 2016

581000-070
 Oct 18, 2016

Figure 2



CHIU PROPERTY
 800 FRANKLIN STREET
 OAKLAND, CALIFORNIA
 DISSOLVED-PHASE BENZENE
 ISOCONCENTRATION MAP - SEPTEMBER 13, 2016

581000-070
 Oct 18, 2016

Figure 3

Tables

**Well Construction Details
Chiu Property
800 Franklin Street
Oakland, California**

| Well ID | Date Installed | Borehole Depth (ft) | Borehole Diameter (in) | Casing Diameter (in) | Screen Interval (ft bgs) | Screen Size (in) | Filter Pack (ft bgs) | Bentonite Seal (ft bgs) | Cement Seal (ft bgs) | TOC Elevation (ft msl) |
|----------------|--|----------------------------|-------------------------------|-----------------------------|---------------------------------|-------------------------|-----------------------------|--------------------------------|-----------------------------|-------------------------------|
| MW-1 | 1989 | 35.0 | 8.0 | 2 | 20.0 - 35.0 | 0.010 | 18.0 - 35.0 | 16.0 - 18.0 | 0 - 16.0 | 33.42 |
| MW-2 | 1989 | 35.0 | 8.0 | 2 | 20.0 - 35.0 | 0.010 | 18.0 - 35.0 | 16.0 - 18.0 | 0 - 16.0 | 33.66 |
| MW-3* | Installed: 1989 Destroyed: 1/29/07 | 35.0 | 8.0 | 2 | 20.0 - 35.0 | 0.010 | 18.0 - 35.0 | 16.0 - 18.0 | 0 - 16.0 | 34.23 |
| MW-3A | 2/8/2007 | 35.0 | 10.0 | 4 | 20.0 - 35.0 | 0.010 | 19.0 - 35.0 | 17.0 - 19.0 | 0 - 17.0 | 34.16 |
| MW-4 | 10/2/1991 | 35.0 | 8.0 | 2 | 20.0 - 35.0 | 0.010 | 18.0 - 35.0 | - | 0 - 18.0 | 33.64 |
| MW-5 | 10/3/1991 | 35.0 | 8.0 | 2 | 20.0 - 35.0 | 0.010 | 18.0 - 35.0 | - | 0 - 18.0 | 33.56 |
| MW-6 | 5/15/1997 | 35.0 | 8.0 | 2 | 14.5 - 36.25 | 0.010 | 14.5 - 36.25 | 12.5 - 14.5 | 0 - 12.5 | 33.98 |
| MW-7 | 5/23/2012 | 35.0 | 8.0 | 2 | 18.0 - 35.0 | 0.010 | 16.0 - 35.0 | 14.0 - 16.0 | 0 - 14.0 | 33.49 |

Abbreviations / Notes

ft = feet

in = inches

ft bgs = feet below grade surface

ft msl = feet above mean sea level

TOC = top of casing

* = Monitoring well MW-3 properly destroyed on January 29, 2007 by Cambria.

Table 2

Groundwater Analytical and Elevation Data: TPHg, BTEX, MTBE, and 1,2-DCA
Chiu Property
800 Franklin Street
Oakland, California

| Well ID | TOC Elevation (ft msl) | Date Sampled | Depth to Water (ft below TOC) | Groundwater Elevation (ft msl) | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | 1,2-DCA |
|---------|---------------------------|--------------|----------------------------------|--------------------------------------|-------|-------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|---------|
| | | | | | | | | | | | | | |
| MW-1 | | 10/12/1989 | 22.87 | 10.55 | ND | -- | -- | ND | ND | ND | ND | -- | 8.6 |
| 33.42 | | 10/31/1991 | -- | -- | 630 | 960 | 1,700 | 3.2 | ND<0.5 | ND<0.5 | 130 | -- | 0.0098 |
| 34.89 | | 10/21/1992 | 23.48 | 11.41 | 520 | -- | -- | 78 | 38 | ND<0.5 | 120 | -- | ND |
| | | 2/25/1993 | 22.51 | 12.38 | 1,600 | -- | -- | 160 | 190 | 34 | 350 | -- | -- |
| | | 4/27/1993 | 22.36 | 12.53 | 380 | -- | -- | 5.2 | ND<0.5 | ND<0.5 | 74 | -- | -- |
| | | 10/7/1993 | -- | 12.10 | 1,000 | -- | -- | 81 | 150 | 47 | 230 | -- | -- |
| 33.98 | | 3/28/1994 | -- | 11.91 | 460 | -- | -- | 14 | 25 | 14 | 39 | -- | -- |
| | | 4/29/1994 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 6/10/1994 | -- | 11.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/8/1994 | -- | 11.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/26/1994 | -- | 11.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/25/1994 | -- | 11.47 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/27/1994 | 22.51 | 11.47 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- |
| | | 1/6/1995 | -- | 12.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 2/1/1995 | -- | 12.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/29/1995 | -- | 12.75 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/31/1995 | -- | 12.48 | 1,400 | -- | -- | 15 | 38 | 49 | 510 | 19 | -- |
| | | 5/21/1997 | -- | 12.49 | 150 | -- | -- | 2.9 | 1.5 | 8.6 | 26 | ND<5.0 | -- |
| | | 8/10/2004 | 23.35 | 10.63 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 9/28/2004É | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/21/2004 | 22.93 | 11.05 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 3/11/2005É | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 6/16/2005 | 20.68 | 13.30 | ND<50 | -- | -- | 0.64 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 9/1/2005 | 20.74 | 13.24 | ND<50 | -- | -- | 1.2 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 12/16/2005 | 20.95 | 13.03 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 3/10/2006 | 20.34 | 13.64 | ND<50 | -- | -- | 0.60 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 9/15/2006 | 21.51 | 12.47 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 |
| | | 3/8/2007 | 21.81 | 12.17 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | 0.72 | ND<0.5 | ND<5.0 | ND<0.5 |
| | | 9/17/2007 | 22.08 | 11.90 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | 2.3 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 3/4/2008 | 21.72 | 12.26 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 9/3/2008 | 22.70 | 11.28 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 |
| | | 3/4/2009 | 22.49 | 11.49 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 0.65 |
| | | 9/8/2009 | 22.80 | 11.18 | ND<50 | ND<50 | ND<250 | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 |
| | | 3/19/2010 | 22.25 | 11.73 | ND<50 | ND<50 | -- | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | 0.58 |
| | | 9/3/2010 | 22.51 | 11.47 | ND<50 | ND<50 | -- | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | ND<0.5 |
| | | 3/4/2011 | 22.10 | 11.88 | ND<50 | ND<50 | -- | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | ND<0.5 |
| | | 8/22/2011 | 22.23 | 11.75 | ND<50 | ND<50 | -- | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | ND<0.5 |
| | | 3/5/2012 | 22.61 | 11.37 | ND<50 | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 9/27/2012 | 22.31 | 11.67 | ND<50 | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 3/25/2013 | 22.20 | 11.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 9/19/2013 | 22.84 | 11.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/13/2014 | 22.80 | 11.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 9/17/2014 | ←————— Well Inaccessible —————→ | | | | | | | | | | |
| | | 3/30/2015 | 22.59 | 11.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 9/15/2015 | 23.19 | 10.79 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/9/2016 | 22.68 | 11.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 9/13/2016 | 22.81 | 11.17 | ND<50 | ND<50 | -- | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | ND<0.50 |

Table 2

Groundwater Analytical and Elevation Data: TPHg, BTEX, MTBE, and 1,2-DCA
Chiu Property
800 Franklin Street
Oakland, California

| Well ID | TOC Elevation (ft msl) | Date Sampled | Depth to Water (ft below TOC) | Groundwater Elevation (ft msl) | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | 1,2-DCA |
|---------------|---------------------------|--------------|----------------------------------|--------------------------------------|--------------|---------------|---------------|-----------|---------------|-----------------|---------------|--------|---------|
| | | | | | | | | | | | | | |
| MW-2 33.66 | 10/12/1989 | 23.25 | 10.40 | 38,000 | -- | 3,900 | 1,300 | 1,200 | ND | 4,700 | -- | -- | |
| | 10/31/1991 | -- | -- | 10,000 | 1,500 | -- | 1,800 | 1,200 | 270 | 960 | -- | 0.17 | |
| | 11/6/1991 | 24.02 | 9.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/21/1992 | 22.42 | 11.24 | 270,000 | -- | -- | 9,700 | 4,500 | 9,600 | 56,000 | -- | 15.4 | |
| | 2/25/1993 | 21.50 | 12.16 | 49,000 | -- | -- | 4,300 | 11,000 | 1,300 | 9,100 | -- | -- | |
| | 4/27/1993 | 21.26 | 12.40 | 39,000 | -- | -- | 1,400 | 4,000 | 220 | 5,200 | -- | -- | |
| | 10/7/1993 | -- | 12.04 | 50,000 | -- | -- | 2,700 | 8,100 | 940 | 7,800 | -- | -- | |
| | 3/28/1994 | -- | 11.88 | 20,000 | -- | -- | 360 | 1,300 | 220 | 1,800 | -- | -- | |
| | 4/29/1994 | -- | 11.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 6/10/1994 | -- | 11.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/8/1994 | -- | 11.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 7/26/1994 | -- | 11.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 8/25/1994 | -- | 11.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/27/1994 | 22.66 | 11.00 | 21,000 | -- | -- | 1,200 | 3,700 | 600 | 4,300 | -- | -- | |
| | 1/6/1995 | -- | 11.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 2/1/1995 | -- | 12.21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/29/1995 | -- | 12.66 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/31/1995 | -- | 11.51 | 45,000 | -- | -- | 3,100 | 8,800 | 1,200 | 8,400 | 810 | -- | |
| | 5/21/1997 | -- | 12.65 | 18,000 | -- | -- | 1,400 | 4,200 | 680 | 3,600 | 370 | -- | |
| | 8/10/2004 | 21.03 | 12.63 | 47,000 (a) | -- | -- | 4,200 | 4,900 | 1,400 | 6,000 | ND<500 | -- | |
| | 9/28/2004 | 22.95 | 10.71 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 12/21/2004 | 20.91 | 12.75 | 13,000 (a) | -- | -- | 500 | 310 | 34 | 1,600 | ND<100 | -- | |
| | 3/11/2005 | 11.35 | 22.31 | 32,000 (a) | -- | -- | 970 | 2,400 | 890 | 4,200 | ND<1,000 | -- | |
| | 6/16/2005 | 20.50 | 13.16 | 43,000 (a,i) | -- | -- | 1,500 | 3,400 | 1,200 | 5,400 | ND<1,200 | -- | |
| | 9/1/2005 | 20.60 | 13.06 | 20,000 (a) | -- | -- | 640 | 1,700 | 460 | 2,200 | ND<200 | -- | |
| | 12/16/2005 | 20.83 | 12.83 | 32,000 (a,i) | -- | -- | 1,000 | 3,100 | 760 | 3,800 | ND<500 | -- | |
| | 3/10/2006 | 20.05 | 13.61 | 20,000 (a) | -- | -- | 460 | 1,900 | 440 | 2,400 | ND<400 | -- | |
| 9/15/2006 | 21.31 | 12.35 | 43,000 (a) | 3,100 (d) | ND<250 | 1,600 | 4,400 | 1,100 | 5,100 | ND<500 | ND<10 | | |
| 3/8/2007 | 21.62 | 12.04 | 30,000 (a,h) | 4,600 (d,h) | ND<1,200 | 1,200 | 3,400 | 890 | 4,500 | ND<500 | ND<50 (j,h) | | |
| 9/17/2007 | 21.92 | 11.74 | 31,000 (a) | 6,600 (d,b) | 340 | 790 | 3,000 | 700 | 3,100 | ND<100 | ND<100 | | |
| 3/4/2008 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | |
| 9/3/2008 | 22.50 | 11.16 | 46,000 (a) | 5,100 (d) | 370 | 1,700 | 8,600 | 1,400 | 7,500 | ND<250 | ND<250 | | |
| 3/4/2009 | 22.25 | 11.41 | 56,000 (a) | 13,000 (d) | 1,100 | 1,500 | 5,300 | 990 | 4,500 | ND<10 | ND<10 | | |
| 9/8/2009 | 22.60 | 11.06 | 42,000 (a) | 11,000 (d) | 1,200 | 1,400 (1,200) | 5,200 (4,900) | 970 (890) | 5,500 (4,900) | ND<100 (ND<100) | ND<100 | | |
| 33.75 | 3/19/2010 ** | 21.96 | 11.70 | 30,000 (a,h) | 12,000 (d,h) | -- | (1,000) | (3,500) | (980) | (4,500) | (ND<50) | ND<5.0 | |
| | 9/3/2010 | 22.30 | 11.45 | 9,500 (a) | 1,500 (d) | -- | (320) | (290) | (140) | (970) | (ND<12) | ND<12 | |
| | 3/4/2011 | 21.85 | 11.90 | 12,000 (a) | 2,200 (d) | -- | (610) | (430) | (290) | (1,400) | (ND<25) | ND<25 | |
| | 8/22/2011 | 22.04 | 11.71 | 7,900 (a) | 1,300 (d) | -- | (320) | (270) | (170) | (1,400) | (ND<12) | ND<12 | |
| | 3/5/2012 | 22.32 | 11.43 | 18,000(a) | 1,400 (d) | -- | 1,200 | 930 | 560 | 2,100 | ND<500 | -- | |
| | 9/27/2012 | 22.16 | 11.59 | 6,300 (a) | 690 (d) | -- | 410 | 290 | 130 | 830 | ND<70 | -- | |
| | 3/25/2013 | 22.01 | 11.74 | 9,200 (a) | 900 (d) | -- | 820 | 440 | 280 | 1,200 | ND<250 | -- | |
| | 9/19/2013 | 22.68 | 11.07 | 20,000 (a) | 2,300 (d) | -- | 1,900 | 2,200 | 630 | 3,100 | ND<550 | -- | |
| | 3/13/2014 | 22.65 | 11.10 | 15,000 (a) | 1,400 (d) | -- | 1,400 | 1,800 | 550 | 1,700 | ND<350 | -- | |
| | 9/17/2014 | 23.94 | 9.81 | 42,000 (a) | 1,900 (b,d) | -- | 2,300 | 5,200 | 1,300 | 5,700 | ND<1,000 | -- | |
| | 3/30/2015 | 22.49 | 11.26 | 29,000 (a) | 1,700 (d) | -- | 2,100 | 2,400 | 1,200 | 3,300 | ND<750 (e) | -- | |

Table 2

Groundwater Analytical and Elevation Data: TPHg, BTEX, MTBE, and 1,2-DCA
Chiu Property
800 Franklin Street
Oakland, California

| Well ID | TOC Elevation (ft msl) | Date Sampled | Depth to Water (ft below TOC) | Groundwater Elevation (ft msl) | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | 1,2-DCA | |
|--------------------------------|---------------------------|------------------|----------------------------------|--------------------------------------|---------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-----------------|--------------------|
| | | | | | | | | | | | | | | ←————— µg/L —————→ |
| MW-3A <i>(cont.)</i> | | 9/19/2013 | 23.30 | 10.86 | 31,000 (a) | 3,100 (d) | -- | 3,200 | 2,100 | 1,500 | 6,200 | ND<170 | -- | |
| | | 3/13/2014 | 23.21 | 10.95 | 39,000 (a,k) | 6,100 (b,d,l) | -- | 3,200 | 1,200 | 1,900 | 7,200 | ND<200 | -- | |
| | | 9/17/2014 | 23.46 | 10.70 | 39,000 (a) | 1,500 (d) | -- | 3,300 | 1,200 | 1,500 | 5,900 | ND<1,000 | -- | |
| | | 3/30/2015 | 23.05 | 11.11 | 22,000 (a) | 1,800 (d) | -- | 2,500 | 730 | 800 | 3,300 | ND<180 (e) | -- | |
| | | 9/15/2015 | 23.58 | 10.58 | 26,000 (a) | 1,700 (d) | -- | 3,200 | 1,200 | 1,200 | 4,900 | ND<500 | -- | |
| | | 3/9/2016 | 23.14 | 11.02 | 19,000 (a) | 3,700 (d, k) | -- | 1,500 | 140 | 550 | 2,300 | ND<500 | -- | |
| | | 9/13/2016 | 23.22 | 10.94 | 26,000 | 1,800 (d) | -- | (3,000) | (200) | (890) | (3,300) | (ND<50) | ND<50 | |
| MW-4 33.64 | | 10/31/1991 | -- | -- | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | ND | |
| | | 11/6/1991 | 23.32 | 10.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 10/21/1992 | 22.10 | 11.54 | 410 | -- | -- | 3.1 | 29 | 6.8 | 47 | -- | ND | |
| | | 2/25/1993 | 21.13 | 12.51 | 170 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | |
| | | 4/27/1993 | 20.74 | 12.90 | 100 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | 0.9 | -- | -- | |
| | | 10/7/1993 | -- | 12.52 | 240 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | |
| | | 3/28/1994 | -- | 12.34 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | |
| | | 4/29/1994 | -- | 11.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 6/10/1994 | -- | 11.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 7/8/1994 | -- | 11.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 7/26/1994 | -- | 11.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 8/25/1994 | -- | 11.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 10/27/1994 | 22.69 | 10.95 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | |
| | | 1/6/1995 | -- | 11.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 2/1/1995 | -- | 12.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 3/29/1995 | -- | 12.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 10/31/1995 | -- | 11.61 | 80 | -- | -- | ND<0.5 | 0.6 | ND<0.5 | 1.0 | ND<0.5 | -- | |
| | | 5/21/1997 | -- | 12.08 | ND<50 | -- | -- | 11 | 120 | 27 | 180 | ND<5.0 | -- | |
| | | 9/28/2004 | 22.72 | 10.92 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 12/21/2004 | 20.65 | 12.99 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 3/11/2005 | 20.20 | 13.44 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 6/16/2005 | 20.38 | 13.26 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 9/1/2005 | 20.48 | 13.16 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 12/16/2005 | 20.78 | 12.86 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 3/10/2006 | 19.81 | 13.83 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- |
| | | 9/15/2006 | 21.16 | 12.48 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 |
| | | 3/8/2007 | 21.52 | 12.12 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 |
| | | 9/17/2007 | 21.84 | 11.80 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 |
| | | 3/4/2008 | 21.41 | 12.23 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 |
| | | 9/3/2008 | 22.50 | 11.14 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 |
| | 3/4/2009 | 22.15 | 11.49 | ND<50 | ND<50 | ND<250 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 | |
| | 9/8/2009 | 22.56 | 11.08 | ND<50 | ND<50 | ND<250 | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | ND<0.5 (ND<0.5) | |
| 33.73 | | 3/19/2010 * | 21.88 | 11.76 | ND<50 | ND<50 | -- | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | ND<0.5 | |
| | | 9/3/2010 | 22.21 | 11.52 | ND<50 | ND<50 | -- | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | ND<0.5 | |
| | | 3/4/2011 | 21.78 | 11.95 | ND<50 | ND<50 | -- | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | ND<0.5 | |
| | | 8/22/2011 | 21.92 | 11.81 | ND<50 | ND<50 | -- | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | (ND<0.5) | ND<0.5 | |
| | | 3/5/2012 | 22.34 | 11.39 | ND<50 | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 9/27/2012 | 21.98 | 11.75 | ND<50 | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 3/25/2013 | 21.95 | 11.78 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |

Table 2

Groundwater Analytical and Elevation Data: TPHg, BTEX, MTBE, and 1,2-DCA
Chiu Property
800 Franklin Street
Oakland, California

| Well ID | TOC Elevation (ft msl) | Date Sampled | Depth to Water (ft below TOC) | Groundwater Elevation (ft msl) | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | 1,2-DCA | |
|-----------------|---------------------------|------------------|----------------------------------|--------------------------------------|-----------------|-----------------|-----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
| | | | | | | | | | | | | | | ← μg/L → |
| MW-5 (cont.) | | 9/19/2013 | 23.34 | 10.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 3/13/2014 | 23.32 | 10.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 9/17/2014 | 23.57 | 10.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 3/30/2015 | 23.10 | 10.57 | ND<50 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | -- | |
| | | 9/15/2015 | 23.62 | 10.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 3/9/2016 | 23.21 | 10.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | | 9/13/2016 | 23.34 | 10.33 | ND<50 | ND<50 | -- | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | ND<0.50 |
| MW-6 33.98 | | 5/21/1997 | -- | 11.26 | 760 | -- | -- | 2.5 | 1.7 | ND<0.50 | 25 | 10 | -- | |
| | | 9/28/2004 | 24.00 | 9.98 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 12/21/2004 | 21.61 | 12.37 | ND<50 | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 3/11/2005 | 21.60 | 12.38 | 340 (a) | -- | -- | 1.9 | 2.6 | 0.68 | 0.61 | ND<5.0 | -- | |
| | | 6/16/2005 | 21.81 | 12.17 | 1,300 (a) | -- | -- | 58 | 8.3 | 6.1 | 4.0 | ND<25 | -- | |
| | | 9/1/2005 | 21.82 | 12.16 | 1,900 (a) | -- | -- | 150 | 19 | 18 | 76 | ND<12 | -- | |
| | | 12/16/2005 | 22.03 | 11.95 | 3,600 (a,i) | -- | -- | 560 | 63 | 33 | 230 | ND<50 | -- | |
| | | 3/10/2006 | 21.46 | 12.52 | 2,200 (a) | -- | -- | 240 | 10 | 20 | 87 | ND<50 | -- | |
| | | 9/15/2006 | 22.46 | 11.52 | 1,800 (a) | 480 (d) | ND<250 | 10 | 6.7 | 9.9 | 42 | ND<17 | ND<0.5 | |
| | | 3/8/2007 | 22.64 | 11.34 | 4,300 (a) | 890 (d) | ND<250 | 260 | 36 | 29 | 140 | ND<60 | ND<10 (j) | |
| | | 9/17/2007 | 22.88 | 11.10 | 7,000 (a) | 970 (d) | ND<250 | 760 | 28 | 46 | 270 | ND<10 | ND<10 | |
| | | 3/4/2008 | 22.51 | 11.47 | 400 (a) | 74 (d) | ND<250 | 46 | ND<1.0 | 1.0 | 6.0 | ND<1.0 | ND<1.0 | |
| | | 9/3/2008 | 23.24 | 10.74 | 280 (a) | 69 (d, b) | ND<250 | 2.9 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | |
| | | 3/4/2009 | 23.14 | 10.84 | 670 (a) | 150 (d) | ND<250 | 68 | 13 | ND<2.5 | 12 | ND<2.5 | ND<2.5 | |
| | | 9/8/2009 | 23.38 | 10.60 | 8,000 (a) | 1,400 (d) | ND<250 | 870 (770) | 16 (ND<12) | 34 (17) | 1500 (1,200) | ND<12 (ND<12) | ND<12 | |
| | | 34.05 | 3/19/2010 * | 22.93 | 11.05 | 8,900 (a) | 1,200 (d) | -- | (2,900) | (ND<100) | (ND<100) | (ND<100) | (ND<5.0) | 15 |
| | | | 9/3/2010 | 23.19 | 10.86 | 4,600 (a) | 710 (d) | -- | (1,500) | (33) | (35) | (79) | (ND<25) | ND<25 |
| | | | 3/4/2011 | 22.78 | 11.27 | 3,700 (a) | 410 (d) | -- | (1,300) | (170) | (70) | (200) | (ND<25) | ND<25 |
| | | | 8/22/2011 | 22.85 | 11.20 | 490 (a) | 120 (b,d) | -- | (190) | (ND<5.0) | (ND<5.0) | (ND<5.0) | (ND<5.0) | ND<5.0 |
| | | | 3/5/2012 | 23.16 | 10.89 | 190 (a) | 65 (b,d) | -- | 38 | 2.7 | 1.4 | 7.3 | ND<15 | -- |
| | | 9/27/2012 | 22.91 | 11.14 | 79 (a) | ND<50 | -- | 11 | ND<0.5 | ND<0.5 | 0.90 | ND<5.0 | -- | |
| | | 3/25/2013 | 22.87 | 11.18 | 59 (a) | ND<50 | -- | 12 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 9/19/2013 | 23.40 | 10.65 | 8,500 (a) | 1,100 (d) | -- | 3,200 | 48 | 52 | 92 | ND<250 | -- | |
| | | 3/13/2014 | 23.36 | 10.69 | 2,300 (a) | 140 (b,d) | -- | 900 | 3.1 | 11 | 16 | ND<17 | -- | |
| | | 9/17/2014 | 23.61 | 10.44 | 7,600 (a) | 830 (d) | -- | 2,600 | 45.0 | 55 | 130 | ND<100 | -- | |
| | | 3/30/2015 | 23.19 | 10.86 | 850 (a) | 93 (d) | -- | 260 | 2.7 | 7.8 | 12 | ND<5.0 | -- | |
| | | 9/15/2015 | 23.68 | 10.37 | 820 (a) | 200 (d, m) | -- | 220 | 5.5 | 5.7 | 14 | ND<10 | -- | |
| | | 3/9/2016 | 23.27 | 10.78 | 1,300 (a) | 180 (d) | -- | 370 | 5.4 | 2.2 | 6.5 | ND<45 (e) | -- | |
| | | 9/13/2016 | 23.40 | 10.65 | ND<50 | ND<50 | -- | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | ND<0.50 | |
| MW-7 33.49 | | 6/25/2012 | 22.98 | 10.51 | ND<50 | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 9/27/2012 | 23.22 | 10.27 | ND<50 | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 12/4/2012 | 23.46 | 10.03 | ND<50 | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 3/25/2013 | 23.19 | 10.30 | ND<50 | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | -- | |
| | | 9/19/2013 | 23.65 | 9.84 | ND<50 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | -- | |
| | | 3/13/2014 | 23.60 | 9.89 | ND<50 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | -- | |
| | | 9/17/2014 | 23.73 | 9.76 | ND<50 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | -- | |
| | | 3/30/2015 | 23.44 | 10.05 | ND<50 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<5.0 | -- | |
| | | 9/15/2015 | 23.81 | 9.68 | ND<50 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | 1.0 | ND<5.0 | -- | |

**Groundwater Analytical and Elevation Data: TPHg, BTEX, MTBE, and 1,2-DCA
Chiu Property
800 Franklin Street
Oakland, California**

| Well ID | Date Sampled | Depth to Water (ft below TOC) | Groundwater Elevation (ft msl) | TPHg | TPHd | TPHmo | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | 1,2-DCA |
|---------------------------|------------------|----------------------------------|--------------------------------------|--------------------|-----------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
| TOC Elevation (ft msl) | | | | ←----- μg/L -----> | | | | | | | | |
| | 3/9/2016 | 23.53 | 9.96 | ND<50 | ND<50 | -- | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.5 | ND<5.0 | -- |
| | 9/13/2016 | 23.67 | 9.82 | ND<50 | ND<50 | -- | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | (ND<0.50) | ND<0.50 |
| <i>Grab Groundwater</i> | | | | | | | | | | | | |
| B-7 | 3/11/2011 | -- | -- | ND<50 (i) | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- |
| B-8 | 3/11/2011 | -- | -- | ND<50 (i) | -- | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- |
| B-9 | 3/12/2011 | -- | -- | ND<50 (i) | -- | -- | ND<0.5 | 3.0 | ND<0.5 | ND<0.5 | -- | -- |

Abbreviations and Notes:

TOC Elevation = Top of well casing elevation

ft msl = Feet above mean sea level

ft below TOC = Feet below top of casing

μg/L = Micrograms per liter

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015C

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015C with silica gel cleanup

TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method 8015C with silica gel cleanup

BTEX = Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B, prior to September 3, 2008 by EPA Method 8021B

MTBE = Methyl tertiary-butyl ether by EPA Method 8260B, prior to September 3, 2008 by EPA Method 8021B

1,2-DCA = 1,2-Dichloroethane by EPA Method SW8260B, prior to 2006 by EPA Method 601

Other VOCs analyzed by EPA Method SW8260B, prior to 2006 by EPA Method 601

Sheen = A sheen was observed on the water's surface

Field = Observed in the field

Lab = Observed in analytical laboratory

(a) = unmodified or weakly modified gasoline is significant

(b) = diesel range compounds are significant; no recognizable pattern

(d) = gasoline range compounds are significant

(e) = reporting limit for MTBE raised due to co-elution with non-target peaks

(h) = lighter than water immiscible sheen/product is present

(i) = liquid sample that contains ~1 vol. % sediment

(j) = sample diluted due to high organic content/matrix interference

(k) = surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.

(l) = oil range compounds are significant

(m) = Stoddard solvent/mineral spirit may be present

ND<5.0 = Not detected above detection limit.

ND = Not detected above laboratory reporting limit

-- = Not available, not analyzed, or not applicable

* = Surveyed September 7, 2006; updated to table May 24, 2010

** = Surveyed March 8, 2007; updated to table May 24, 2010

É = Unable to access well due to denial by current tenant

Table 3

Groundwater Analytical Data: VOCs
Chiu Property
800 Franklin Street
Oakland, California

| Well ID | Date Sampled | Bromo-Dichloro-methane (mg/L) | n-Butyl-benzene (mg/L) | Chloroform (mg/L) | 1,2-Dichloro-ethane (mg/L) | 1,2-Dichloro-propane (mg/L) | Isopropyl-benzene (mg/L) | 4-Isopropyl-toluene (mg/L) | Naphthalene (mg/L) | n-Propyl-benzene (mg/L) | 1,1,1-Trichloro-ethane | tertiary-Butyl Alcohol | 1,2,4-Trimethyl-benzene (mg/L) | 1,3,5-Trimethyl-benzene (mg/L) | Tetrachloro-ethene (mg/L) | Other VOCs (mg/L) | |
|------------|--------------|-------------------------------|------------------------|-------------------|----------------------------|-----------------------------|--------------------------|----------------------------|--------------------|-------------------------|------------------------|------------------------|--------------------------------|--------------------------------|---------------------------|-------------------|-----------|
| MW-1 | 9/21/1989 | ND<0.5 | -- | 0.8 | 8.6 | ND<0.5 | -- | -- | -- | -- | ND<0.5 | -- | -- | -- | ND<0.5 | ND | |
| | 10/31/1991 | ND<0.4 | -- | ND<0.4 | 9.8 | ND<0.4 | -- | -- | -- | -- | ND<2.0 | -- | -- | -- | ND<0.4 | ND | |
| | 10/21/1992 | -- | -- | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/15/2006 | -- | -- | 6.4 | ND<0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/8/2007 | -- | -- | 6.9 | ND<0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/17/2007 | ND<0.5 | ND<0.5 | 4.7 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 3/4/2008 | ND<0.5 | ND<0.5 | 1.3 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 9/3/2008 | ND<0.5 | ND<0.5 | 0.98 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 3/4/2009 | ND<0.5 | ND<0.5 | ND<0.5 | 0.65 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 9/8/2009 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 3/19/2010 | ND<0.5 | ND<0.5 | ND<0.5 | 0.58 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 9/3/2010 | ND<0.5 | ND<0.5 | 1.2 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 3/4/2011 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 8/22/2011 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 9/13/2016 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND | |
| | MW-2 | 9/21/1989 | ND<20.0 | -- | ND<20.0 | ND<20.0 | ND<20.0 | -- | -- | -- | -- | ND<20.0 | -- | -- | -- | ND<20.0 | ND |
| 10/31/1991 | | ND<0.4 | -- | ND<0.4 | 170 | ND<0.4 | -- | -- | -- | -- | ND<2.0 | -- | -- | -- | ND<0.4 | ND | |
| 10/21/1992 | | -- | -- | -- | 15.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/15/2006 | | -- | -- | 16 | ND<10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/8/2007 | | -- | -- | ND<50 | ND<50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/17/2007 | | ND<100 | ND<100 | ND<100 | ND<100 | ND<100 | ND<100 | ND<100 | 110 | 100 | ND<100 | ND<1,000 | 1,000 | 220 | ND<100 | ND | |
| 9/3/2008 | | ND<250 | ND<250 | ND<250 | ND<250 | ND<250 | ND<250 | ND<250 | 310 | ND<250 | ND<250 | ND<1,000 | 1,400 | 320 | ND<250 | ND | |
| 3/4/2009 | | ND<10 | 55 | ND<10 | ND<10 | ND<10 | 88 | 25 | 140 | 190 | ND<10 | ND<40 | 1,200 | 250 | ND<10 | ND | |
| 9/8/2009 | | ND<100 | ND<100 | ND<0.5 | ND<100 | ND<100 | ND<100 | ND<100 | 200 | 110 | ND<100 | ND<100 | 1,300 | 180 | ND<100 | ND | |
| 3/19/2010 | | ND<50 | 65 | ND<5.0 | ND<50 | ND<50 | 78 | ND<50 | 240 | 180 | ND<50 | ND<200 | 1,400 | 370 | ND<50 | ND | |
| 9/3/2010 | | ND<12 | 15 | ND<12 | ND<12 | ND<12 | 43 | ND<12 | 71 | 71 | ND<12 | ND<50 | 570 | 120 | ND<12 | ND | |
| 3/4/2011 | | ND<25 | 26 | ND<25 | ND<25 | ND<25 | 61 | ND<25 | 110 | 89 | ND<25 | ND<25 | 650 | 160 | ND<25 | ND | |
| 8/22/2011 | | ND<12 | ND<12 | ND<0.5 | ND<12 | ND<12 | 18 | ND<12 | 55 | 35 | ND<12 | ND<50 | 420 | 76 | ND<12 | ND | |
| 9/13/2016 | | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | 280 | 100 | ND<50 | ND<200 | 750 | 150 | ND<50 | ND |
| MW-3A | | 9/21/1989 | ND<20.0 | -- | ND<20.0 | ND<20.0 | ND<20.0 | -- | -- | -- | -- | ND<20.0 | -- | -- | -- | ND<20.0 | ND |
| | | 10/31/1991 | ND<0.4 | -- | ND<0.4 | 58.0 | 0.68 | -- | -- | -- | -- | 1.4 | -- | -- | -- | ND<0.4 | ND |
| | 10/21/1992 | -- | -- | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/8/2007 | -- | -- | ND<50 | ND<50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/17/2007 | ND<25 | ND<25 | ND<25 | ND<25 | ND<25 | ND<25 | ND<25 | 27 | 27 | ND<25 | ND<250 | 220 | 55 | ND<25 | ND | |
| | 3/4/2008 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | 110 | 80 | ND<50 | ND<200 | 580 | 160 | ND<50 | ND | |
| | 9/3/2008 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | 62 | 62 | ND<50 | ND<200 | 240 | 58 | ND<50 | ND | |
| | 3/4/2009 | ND<5.0 | 15 | 7.9 | 7.2 | ND<5.0 | 14 | ND<5.0 | 67 | 37 | ND<5.0 | ND<2.0 | 230 | 68 | ND<5.0 | ND | |
| | 9/8/2009 | ND<25 | ND<25 | 6.3 | ND<25 | ND<25 | ND<25 | ND<25 | 39 | ND<25 | ND<25 | ND<100 | 110 | ND<25 | ND<25 | ND | |
| | 3/19/2010 | ND<50 | ND<50 | ND<5.0 | 10 | ND<50 | ND<50 | ND<50 | 150 | 57 | ND<50 | ND<200 | 460 | 110 | ND<50 | ND | |
| | 9/3/2010 | ND<0.5 | ND<0.5 | ND<120 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 160 | ND<0.5 | ND<0.5 | ND<2.0 | 580 | 130 | ND<0.5 | ND | |
| | 3/4/2011 | ND<100 | ND<100 | ND<100 | ND<100 | ND<100 | ND<100 | ND<100 | 240 | 130 | ND<100 | ND<400 | 940 | 300 | ND<100 | ND | |
| | 8/22/2011 | ND<120 | ND<120 | ND<0.5 | ND<120 | ND<120 | ND<120 | ND<120 | 200 | ND<120 | ND<120 | ND<500 | 930 | 190 | ND<120 | ND | |
| | 9/13/2016 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | 210 | 91 | ND<0.50 | ND<200 | 790 | 230 | ND<50 | ND | |
| | MW-4 | 10/31/1991 | ND<0.4 | -- | 2.6 | ND<0.4 | ND<0.4 | -- | -- | -- | -- | ND<2.0 | -- | -- | -- | ND<0.4 | ND |
| | | 10/21/1992 | -- | -- | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 9/15/2006 | | -- | -- | 28 | ND<0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 3/8/2007 | | -- | -- | 23 | ND<0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/17/2007 | | ND<0.5 | ND<0.5 | 18 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| 3/4/2008 | | ND<0.5 | ND<0.5 | 13 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| 9/3/2008 | | ND<0.5 | ND<0.5 | 12 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| 3/4/2009 | | ND<0.5 | ND<0.5 | 14 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| 9/8/2009 | | ND<0.5 | ND<0.5 | 11 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| 3/19/2010 | | ND<0.5 | ND<0.5 | 10 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |

Table 3

Groundwater Analytical Data: VOCs
Chiu Property
800 Franklin Street
Oakland, California

| Well ID | Date Sampled | Bromo-Dichloro-methane (mg/L) | n-Butyl-benzene (mg/L) | Chloroform (mg/L) | 1,2-Dichloro-ethane (mg/L) | 1,2-Dichloro-propane (mg/L) | Isopropyl-benzene (mg/L) | 4-Isopropyl-toluene (mg/L) | Naphthalene (mg/L) | n-Propyl-benzene (mg/L) | 1,1,1-Trichloro-ethane | tertiary-Butyl Alcohol | 1,2,4-Trimethyl-benzene (mg/L) | 1,3,5-Trimethyl-benzene (mg/L) | Tetrachloro-ethene (mg/L) | Other VOCs (mg/L) | |
|-----------|-------------------|-------------------------------|------------------------|-------------------|----------------------------|-----------------------------|--------------------------|----------------------------|--------------------|-------------------------|------------------------|------------------------|--------------------------------|--------------------------------|---------------------------|-------------------|-----------|
| MW-5 | 9/3/2010 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 3/4/2011 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 8/22/2011 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 9/13/2016 | ND<0.50 | ND<0.50 | 0.63 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND |
| | 10/31/1991 | ND<0.4 | -- | 1.1 | ND<0.4 | ND<0.4 | -- | -- | -- | -- | ND<2.0 | -- | -- | -- | ND<0.4 | ND | |
| | 10/21/1992 | -- | -- | -- | ND | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/15/2006 | -- | -- | 10 | ND<0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 3/8/2007 | -- | -- | 18 | ND<0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 9/17/2007 | 0.77 | ND<0.5 | 14 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND |
| | 3/4/2008 | 0.64 | ND<0.5 | 19 | ND<0.5 | ND<1.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1.0 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND |
| | 9/3/2008 | ND<0.5 | ND<0.5 | 17 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND |
| | 3/4/2009 | ND<0.5 | ND<0.5 | 14 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND |
| | 9/8/2009 | ND<0.5 | ND<0.5 | 11 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND |
| | 3/19/2010 | ND<0.5 | ND<0.5 | 14 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND |
| | 9/3/2010 | ND<0.5 | ND<0.5 | 7.2 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND |
| | 3/4/2011 | ND<0.5 | ND<0.5 | 3.4 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND |
| 8/22/2011 | ND<0.5 | ND<0.5 | 1.9 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| 9/13/2016 | ND<0.50 | ND<0.50 | 0.71 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND | |
| MW-6 | 9/15/2006 | -- | -- | 3.2 | ND<0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 3/8/2007 | -- | -- | ND<10 | ND<10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 9/17/2007 | ND<10 | 16 | ND<10 | ND<10 | ND<10 | 62.0 | ND<10 | 160 | 150 | ND<10 | ND<100 | 13 | ND<10 | ND<10 | ND | |
| | 3/4/2008 | ND<1.0 | 1.2 | ND<1.0 | ND<1.0 | ND<1.0 | 4.8 | ND<1.0 | 5.9 | 9.7 | ND<1.0 | ND<4.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND | |
| | 9/3/2008 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 0.73 | ND<0.5 | 1.7 | 0.96 | ND<0.5 | ND<2.0 | ND<0.5 | ND<0.5 | ND<0.5 | ND | |
| | 3/4/2009 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | 7.4 | ND<2.5 | 13 | 19 | ND<2.5 | 13 | ND<2.5 | ND<2.5 | ND<2.5 | ND | |
| | 9/8/2009 | ND<12 | ND<12 | ND<0.5 | ND<12 | ND<12 | 20 | ND<12 | 120 | 58 | ND<12 | ND<50 | 160 | 48 | ND<12 | ND | |
| | 3/19/2010 | ND<5.0 | ND<5.0 | ND<5.0 | 15.0 | ND<5.0 | ND<5.0 | ND<5.0 | 250 | 120 | ND<5.0 | ND<20 | ND<5.0 | ND<5.0 | ND<5.0 | ND | |
| | 9/3/2010 | ND<25 | ND<25 | ND<25 | ND<25 | ND<25 | 36 | ND<25 | 130 | 80 | ND<25 | ND<100 | ND<25 | ND<25 | ND<25 | ND | |
| | 3/4/2011 | ND<25 | ND<25 | ND<25 | ND<25 | ND<25 | 26.0 | ND<25 | 100 | 51 | ND<25 | ND<100 | ND<25 | ND<25 | ND<25 | ND | |
| | 8/22/2011 | ND<5.0 | ND<5.0 | 0.86 | ND<5.0 | ND<5.0 | 6.3 | ND<5.0 | ND<5.0 | 10 | ND<5.0 | ND<20 | ND<5.0 | ND<5.0 | ND<5.0 | ND | |
| | 9/13/2016 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND |
| | MW-7 | 9/13/2016 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | ND<0.50 | ND<0.50 | 0.77 | ND |

Abbreviations and Notes:

µg/L = Micrograms per liter

VOC = Volatile organic compounds analyzed by EPA Method 8260B; prior to 2006, analyzed by EPA Method 601

ND = Not detected above laboratory reporting limit

-- = Not available, not analyzed, or not applicable

Appendices

Appendix A

Standard Field Procedures for Groundwater Monitoring and Sampling

GHD Services, Inc.

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. GHD Services, Inc.'s field procedures are summarized below.

Groundwater Elevation Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain non-aqueous phase liquid (NAPL) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of NAPL, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be measured last. In wells with a history of NAPL, the NAPL level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of NAPL or floating NAPL globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no NAPL is present. Wells shall be purged either by hand using a disposal or PVC bailer or by using an aboveground pump (e.g. peristaltic or Wattera™) or down-hole pump (e.g. Grundfos™ or DC Purger pump).

Groundwater wells shall be purged approximately three to ten well-casing volumes (depending on the regulatory agency requirements) or until groundwater parameters of temperature, pH, and conductivity have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall be measured and recorded at least once per well casing volume removed. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, field parameters such as turbidity, dissolved oxygen (DO), and oxidation-

GHD Services, Inc.

reduction potential (ORP) shall also be measured prior to collection of each groundwater sample.

Groundwater samples shall be collected after the well has been purged. If the well is slow to recharge, a sample shall be collected after the water column is allowed to recharge to 80% of the pre-purging static water level. If the well does not recover to 80% in 2 hours, a sample shall be collected once there is enough groundwater in the well. Groundwater samples shall be collected using clean disposable bailers or pumps (if an operating remediation system exists on site and the project manager approves of its use for sampling) and shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and disposable tubing or bailers shall be used for sampling each well. If a PVC bailer or down-hole pump is used for groundwater purging, it shall be decontaminated before purging each well by using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. A copy of the COC shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

GHD Services, Inc.

Waste Handling and Disposal

Groundwater extracted during sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums and shall be labeled with the contents, date of generation, generator identification, and consultant contact. Extracted groundwater may be disposed offsite by a licensed waste handler or may be treated and discharged via an operating onsite groundwater extraction/treatment system.

I:\IR\ - MGT IR Group Info\SOPs\Groundwater Monitoring and Sampling SOP 07-2005.doc

Appendix B
McCampbell Analytical, Inc. – Laboratory
Analytical Reports



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1609730

Report Created for: GHD

5900 Hollis St, Suite A
Emeryville, CA 94608

Project Contact: Eric Chodoroff

Project P.O.:

Project Name: F1-160913; 800 Franklin St, Oakland

Project Received: 09/16/2016

Analytical Report reviewed & approved for release on 09/23/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: GHD
Project: F1-160913; 800 Franklin St, Oakland
WorkOrder: 1609730

Glossary Abbreviation

| | |
|--------------|--|
| %D | Serial Dilution Percent Difference |
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DLT | Dilution Test (Serial Dilution) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PDS | Post Digestion Spike |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |

Analytical Qualifiers

| | |
|----|---|
| d1 | weakly modified or unmodified gasoline is significant |
| e4 | gasoline range compounds are significant. |



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|----------|
| MW-6 | 1609730-001B | Water | 09/13/2016 07:10 | GC16 | 126816 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acetone | ND | 10 | 1 | 09/19/2016 11:26 | |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Benzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Bromobenzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Bromochloromethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Bromodichloromethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Bromoform | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Bromomethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 2-Butanone (MEK) | ND | 2.0 | 1 | 09/19/2016 11:26 | |
| t-Butyl alcohol (TBA) | ND | 2.0 | 1 | 09/19/2016 11:26 | |
| n-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| sec-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| tert-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Carbon Disulfide | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Chlorobenzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Chloroethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Chloroform | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Chloromethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 2-Chlorotoluene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 4-Chlorotoluene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Dibromochloromethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1 | 09/19/2016 11:26 | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Dibromomethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,2-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,3-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,4-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| Dichlorodifluoromethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,1-Dichloroethane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,1-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| cis-1,2-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| trans-1,2-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,2-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 1,3-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 11:26 | |
| 2,2-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 11:26 | |

(Cont.)



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-6 | 1609730-001B | Water | 09/13/2016 07:10 | GC16 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| 1,1-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| cis-1,3-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| trans-1,3-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Diisopropyl ether (DIPE) | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Ethylbenzene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Freon 113 | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Hexachlorobutadiene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Hexachloroethane | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 2-Hexanone | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Isopropylbenzene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 4-Isopropyl toluene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Methylene chloride | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Naphthalene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| n-Propyl benzene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Styrene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Tetrachloroethene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Toluene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,2,3-Trichlorobenzene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,1,1-Trichloroethane | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,1,2-Trichloroethane | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Trichloroethene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Trichlorofluoromethane | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,2,3-Trichloropropane | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Vinyl Chloride | ND | 0.50 | 1 | 09/19/2016 11:26 |
| Xylenes, Total | ND | 0.50 | 1 | 09/19/2016 11:26 |

(Cont.)



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-6 | 1609730-001B | Water | 09/13/2016 07:10 | GC16 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 93 | 70-130 | | 09/19/2016 11:26 |
| Toluene-d8 | 88 | 70-130 | | 09/19/2016 11:26 |
| 4-BFB | 88 | 70-130 | | 09/19/2016 11:26 |

Analyst(s): KF



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|----------|
| MW-4 | 1609730-002B | Water | 09/13/2016 07:45 | GC16 | 126816 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acetone | ND | 10 | 1 | 09/19/2016 12:07 | |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Benzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Bromobenzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Bromochloromethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Bromodichloromethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Bromoform | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Bromomethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 2-Butanone (MEK) | ND | 2.0 | 1 | 09/19/2016 12:07 | |
| t-Butyl alcohol (TBA) | ND | 2.0 | 1 | 09/19/2016 12:07 | |
| n-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| sec-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| tert-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Carbon Disulfide | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Chlorobenzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Chloroethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Chloroform | 0.63 | 0.50 | 1 | 09/19/2016 12:07 | |
| Chloromethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 2-Chlorotoluene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 4-Chlorotoluene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Dibromochloromethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1 | 09/19/2016 12:07 | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Dibromomethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,2-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,3-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,4-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| Dichlorodifluoromethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,1-Dichloroethane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,1-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| cis-1,2-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| trans-1,2-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,2-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 1,3-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 12:07 | |
| 2,2-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 12:07 | |

(Cont.)



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-4 | 1609730-002B | Water | 09/13/2016 07:45 | GC16 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| 1,1-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| cis-1,3-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| trans-1,3-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Diisopropyl ether (DIPE) | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Ethylbenzene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Freon 113 | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Hexachlorobutadiene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Hexachloroethane | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 2-Hexanone | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Isopropylbenzene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 4-Isopropyl toluene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Methylene chloride | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Naphthalene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| n-Propyl benzene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Styrene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Tetrachloroethene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Toluene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,2,3-Trichlorobenzene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,1,1-Trichloroethane | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,1,2-Trichloroethane | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Trichloroethene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Trichlorofluoromethane | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,2,3-Trichloropropane | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Vinyl Chloride | ND | 0.50 | 1 | 09/19/2016 12:07 |
| Xylenes, Total | ND | 0.50 | 1 | 09/19/2016 12:07 |

(Cont.)



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-4 | 1609730-002B | Water | 09/13/2016 07:45 | GC16 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|---------|--------|----|------------------|
| Surrogates | REC (%) | Limits | | |
| Dibromofluoromethane | 94 | 70-130 | | 09/19/2016 12:07 |
| Toluene-d8 | 88 | 70-130 | | 09/19/2016 12:07 |
| 4-BFB | 91 | 70-130 | | 09/19/2016 12:07 |

Analyst(s): KF



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|------------|----------------------|
| MW-5 | 1609730-003B | Water | 09/13/2016 08:10 | GC16 | 126816 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 10 | 1 | 09/19/2016 12:51 |
| tert-Amyl methyl ether (TAME) | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Benzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Bromobenzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Bromochloromethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Bromodichloromethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Bromoform | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Bromomethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 2-Butanone (MEK) | ND | | 2.0 | 1 | 09/19/2016 12:51 |
| t-Butyl alcohol (TBA) | ND | | 2.0 | 1 | 09/19/2016 12:51 |
| n-Butyl benzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| sec-Butyl benzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| tert-Butyl benzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Carbon Disulfide | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Carbon Tetrachloride | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Chlorobenzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Chloroethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Chloroform | 0.71 | | 0.50 | 1 | 09/19/2016 12:51 |
| Chloromethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 2-Chlorotoluene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 4-Chlorotoluene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Dibromochloromethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,2-Dibromo-3-chloropropane | ND | | 0.20 | 1 | 09/19/2016 12:51 |
| 1,2-Dibromoethane (EDB) | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Dibromomethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,2-Dichlorobenzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,3-Dichlorobenzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,4-Dichlorobenzene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| Dichlorodifluoromethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,1-Dichloroethane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,1-Dichloroethene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| cis-1,2-Dichloroethene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| trans-1,2-Dichloroethene | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,2-Dichloropropane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 1,3-Dichloropropane | ND | | 0.50 | 1 | 09/19/2016 12:51 |
| 2,2-Dichloropropane | ND | | 0.50 | 1 | 09/19/2016 12:51 |

(Cont.)



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-5 | 1609730-003B | Water | 09/13/2016 08:10 | GC16 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| 1,1-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| cis-1,3-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| trans-1,3-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Diisopropyl ether (DIPE) | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Ethylbenzene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Freon 113 | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Hexachlorobutadiene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Hexachloroethane | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 2-Hexanone | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Isopropylbenzene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 4-Isopropyl toluene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Methylene chloride | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Naphthalene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| n-Propyl benzene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Styrene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Tetrachloroethene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Toluene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,2,3-Trichlorobenzene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,1,1-Trichloroethane | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,1,2-Trichloroethane | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Trichloroethene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Trichlorofluoromethane | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,2,3-Trichloropropane | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Vinyl Chloride | ND | 0.50 | 1 | 09/19/2016 12:51 |
| Xylenes, Total | ND | 0.50 | 1 | 09/19/2016 12:51 |

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Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-5 | 1609730-003B | Water | 09/13/2016 08:10 | GC16 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|---------|--------|----|------------------|
| Surrogates | REC (%) | Limits | | |
| Dibromofluoromethane | 93 | 70-130 | | 09/19/2016 12:51 |
| Toluene-d8 | 91 | 70-130 | | 09/19/2016 12:51 |
| 4-BFB | 90 | 70-130 | | 09/19/2016 12:51 |

Analyst(s): KF



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|----------|
| MW-1 | 1609730-004B | Water | 09/13/2016 08:35 | GC16 | 126816 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acetone | ND | 10 | 1 | 09/19/2016 14:30 | |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Benzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Bromobenzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Bromochloromethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Bromodichloromethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Bromoform | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Bromomethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 2-Butanone (MEK) | ND | 2.0 | 1 | 09/19/2016 14:30 | |
| t-Butyl alcohol (TBA) | ND | 2.0 | 1 | 09/19/2016 14:30 | |
| n-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| sec-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| tert-Butyl benzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Carbon Disulfide | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Chlorobenzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Chloroethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Chloroform | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Chloromethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 2-Chlorotoluene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 4-Chlorotoluene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Dibromochloromethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1 | 09/19/2016 14:30 | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Dibromomethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,2-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,3-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,4-Dichlorobenzene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| Dichlorodifluoromethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,1-Dichloroethane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,1-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| cis-1,2-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| trans-1,2-Dichloroethene | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,2-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 1,3-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 14:30 | |
| 2,2-Dichloropropane | ND | 0.50 | 1 | 09/19/2016 14:30 | |

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-1 | 1609730-004B | Water | 09/13/2016 08:35 | GC16 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|--------|------|----|------------------|
| 1,1-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| cis-1,3-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| trans-1,3-Dichloropropene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Diisopropyl ether (DIPE) | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Ethylbenzene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Freon 113 | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Hexachlorobutadiene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Hexachloroethane | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 2-Hexanone | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Isopropylbenzene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 4-Isopropyl toluene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Methylene chloride | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Naphthalene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| n-Propyl benzene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Styrene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Tetrachloroethene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Toluene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,2,3-Trichlorobenzene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,1,1-Trichloroethane | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,1,2-Trichloroethane | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Trichloroethene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Trichlorofluoromethane | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,2,3-Trichloropropane | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Vinyl Chloride | ND | 0.50 | 1 | 09/19/2016 14:30 |
| Xylenes, Total | ND | 0.50 | 1 | 09/19/2016 14:30 |

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-1 | 1609730-004B | Water | 09/13/2016 08:35 | GC16 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|---------|--------|----|------------------|
| Surrogates | REC (%) | Limits | | |
| Dibromofluoromethane | 94 | 70-130 | | 09/19/2016 14:30 |
| Toluene-d8 | 87 | 70-130 | | 09/19/2016 14:30 |
| 4-BFB | 85 | 70-130 | | 09/19/2016 14:30 |

Analyst(s): KF



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|------------|----------------------|
| MW-3A | 1609730-005B | Water | 09/13/2016 08:55 | GC18 | 126816 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 1000 | 100 | 09/20/2016 21:53 |
| tert-Amyl methyl ether (TAME) | ND | | 50 | 100 | 09/20/2016 21:53 |
| Benzene | 3000 | | 50 | 100 | 09/20/2016 21:53 |
| Bromobenzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Bromochloromethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| Bromodichloromethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| Bromoform | ND | | 50 | 100 | 09/20/2016 21:53 |
| Bromomethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 2-Butanone (MEK) | ND | | 200 | 100 | 09/20/2016 21:53 |
| t-Butyl alcohol (TBA) | ND | | 200 | 100 | 09/20/2016 21:53 |
| n-Butyl benzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| sec-Butyl benzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| tert-Butyl benzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Carbon Disulfide | ND | | 50 | 100 | 09/20/2016 21:53 |
| Carbon Tetrachloride | ND | | 50 | 100 | 09/20/2016 21:53 |
| Chlorobenzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Chloroethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| Chloroform | ND | | 50 | 100 | 09/20/2016 21:53 |
| Chloromethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 2-Chlorotoluene | ND | | 50 | 100 | 09/20/2016 21:53 |
| 4-Chlorotoluene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Dibromochloromethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,2-Dibromo-3-chloropropane | ND | | 20 | 100 | 09/20/2016 21:53 |
| 1,2-Dibromoethane (EDB) | ND | | 50 | 100 | 09/20/2016 21:53 |
| Dibromomethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,2-Dichlorobenzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,3-Dichlorobenzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,4-Dichlorobenzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Dichlorodifluoromethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,1-Dichloroethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,1-Dichloroethene | ND | | 50 | 100 | 09/20/2016 21:53 |
| cis-1,2-Dichloroethene | ND | | 50 | 100 | 09/20/2016 21:53 |
| trans-1,2-Dichloroethene | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,2-Dichloropropane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,3-Dichloropropane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 2,2-Dichloropropane | ND | | 50 | 100 | 09/20/2016 21:53 |

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|------------|----------------------|
| MW-3A | 1609730-005B | Water | 09/13/2016 08:55 | GC18 | 126816 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| 1,1-Dichloropropene | ND | | 50 | 100 | 09/20/2016 21:53 |
| cis-1,3-Dichloropropene | ND | | 50 | 100 | 09/20/2016 21:53 |
| trans-1,3-Dichloropropene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Diisopropyl ether (DIPE) | ND | | 50 | 100 | 09/20/2016 21:53 |
| Ethylbenzene | 890 | | 50 | 100 | 09/20/2016 21:53 |
| Ethyl tert-butyl ether (ETBE) | ND | | 50 | 100 | 09/20/2016 21:53 |
| Freon 113 | ND | | 50 | 100 | 09/20/2016 21:53 |
| Hexachlorobutadiene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Hexachloroethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 2-Hexanone | ND | | 50 | 100 | 09/20/2016 21:53 |
| Isopropylbenzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| 4-Isopropyl toluene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Methyl-t-butyl ether (MTBE) | ND | | 50 | 100 | 09/20/2016 21:53 |
| Methylene chloride | ND | | 50 | 100 | 09/20/2016 21:53 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | 100 | 09/20/2016 21:53 |
| Naphthalene | 210 | | 50 | 100 | 09/20/2016 21:53 |
| n-Propyl benzene | 91 | | 50 | 100 | 09/20/2016 21:53 |
| Styrene | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,1,1,2-Tetrachloroethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,1,2,2-Tetrachloroethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| Tetrachloroethene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Toluene | 200 | | 50 | 100 | 09/20/2016 21:53 |
| 1,2,3-Trichlorobenzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,2,4-Trichlorobenzene | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,1,1-Trichloroethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,1,2-Trichloroethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| Trichloroethene | ND | | 50 | 100 | 09/20/2016 21:53 |
| Trichlorofluoromethane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,2,3-Trichloropropane | ND | | 50 | 100 | 09/20/2016 21:53 |
| 1,2,4-Trimethylbenzene | 790 | | 50 | 100 | 09/20/2016 21:53 |
| 1,3,5-Trimethylbenzene | 230 | | 50 | 100 | 09/20/2016 21:53 |
| Vinyl Chloride | ND | | 50 | 100 | 09/20/2016 21:53 |
| Xylenes, Total | 3300 | | 50 | 100 | 09/20/2016 21:53 |

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-3A | 1609730-005B | Water | 09/13/2016 08:55 | GC18 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|---------|--------|--------|------------------|
| Surrogates | REC (%) | | Limits | |
| Dibromofluoromethane | 98 | 70-130 | | 09/20/2016 21:53 |
| Toluene-d8 | 90 | 70-130 | | 09/20/2016 21:53 |
| 4-BFB | 107 | 70-130 | | 09/20/2016 21:53 |

Analyst(s): HK



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|------------|----------------------|
| MW-2 | 1609730-006B | Water | 09/13/2016 09:15 | GC18 | 126816 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Acetone | ND | | 1000 | 100 | 09/20/2016 22:32 |
| tert-Amyl methyl ether (TAME) | ND | | 50 | 100 | 09/20/2016 22:32 |
| Benzene | 1900 | | 50 | 100 | 09/20/2016 22:32 |
| Bromobenzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Bromochloromethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| Bromodichloromethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| Bromoform | ND | | 50 | 100 | 09/20/2016 22:32 |
| Bromomethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 2-Butanone (MEK) | ND | | 200 | 100 | 09/20/2016 22:32 |
| t-Butyl alcohol (TBA) | ND | | 200 | 100 | 09/20/2016 22:32 |
| n-Butyl benzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| sec-Butyl benzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| tert-Butyl benzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Carbon Disulfide | ND | | 50 | 100 | 09/20/2016 22:32 |
| Carbon Tetrachloride | ND | | 50 | 100 | 09/20/2016 22:32 |
| Chlorobenzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Chloroethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| Chloroform | ND | | 50 | 100 | 09/20/2016 22:32 |
| Chloromethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 2-Chlorotoluene | ND | | 50 | 100 | 09/20/2016 22:32 |
| 4-Chlorotoluene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Dibromochloromethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,2-Dibromo-3-chloropropane | ND | | 20 | 100 | 09/20/2016 22:32 |
| 1,2-Dibromoethane (EDB) | ND | | 50 | 100 | 09/20/2016 22:32 |
| Dibromomethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,2-Dichlorobenzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,3-Dichlorobenzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,4-Dichlorobenzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Dichlorodifluoromethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,1-Dichloroethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,2-Dichloroethane (1,2-DCA) | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,1-Dichloroethene | ND | | 50 | 100 | 09/20/2016 22:32 |
| cis-1,2-Dichloroethene | ND | | 50 | 100 | 09/20/2016 22:32 |
| trans-1,2-Dichloroethene | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,2-Dichloropropane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,3-Dichloropropane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 2,2-Dichloropropane | ND | | 50 | 100 | 09/20/2016 22:32 |

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|---------------|--------|------------------|------------|----------------------|
| MW-2 | 1609730-006B | Water | 09/13/2016 09:15 | GC18 | 126816 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| 1,1-Dichloropropene | ND | | 50 | 100 | 09/20/2016 22:32 |
| cis-1,3-Dichloropropene | ND | | 50 | 100 | 09/20/2016 22:32 |
| trans-1,3-Dichloropropene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Diisopropyl ether (DIPE) | ND | | 50 | 100 | 09/20/2016 22:32 |
| Ethylbenzene | 1400 | | 50 | 100 | 09/20/2016 22:32 |
| Ethyl tert-butyl ether (ETBE) | ND | | 50 | 100 | 09/20/2016 22:32 |
| Freon 113 | ND | | 50 | 100 | 09/20/2016 22:32 |
| Hexachlorobutadiene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Hexachloroethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 2-Hexanone | ND | | 50 | 100 | 09/20/2016 22:32 |
| Isopropylbenzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| 4-Isopropyl toluene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Methyl-t-butyl ether (MTBE) | ND | | 50 | 100 | 09/20/2016 22:32 |
| Methylene chloride | ND | | 50 | 100 | 09/20/2016 22:32 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | 100 | 09/20/2016 22:32 |
| Naphthalene | 280 | | 50 | 100 | 09/20/2016 22:32 |
| n-Propyl benzene | 100 | | 50 | 100 | 09/20/2016 22:32 |
| Styrene | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,1,1,2-Tetrachloroethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,1,2,2-Tetrachloroethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| Tetrachloroethene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Toluene | 2200 | | 50 | 100 | 09/20/2016 22:32 |
| 1,2,3-Trichlorobenzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,2,4-Trichlorobenzene | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,1,1-Trichloroethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,1,2-Trichloroethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| Trichloroethene | ND | | 50 | 100 | 09/20/2016 22:32 |
| Trichlorofluoromethane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,2,3-Trichloropropane | ND | | 50 | 100 | 09/20/2016 22:32 |
| 1,2,4-Trimethylbenzene | 750 | | 50 | 100 | 09/20/2016 22:32 |
| 1,3,5-Trimethylbenzene | 150 | | 50 | 100 | 09/20/2016 22:32 |
| Vinyl Chloride | ND | | 50 | 100 | 09/20/2016 22:32 |
| Xylenes, Total | 4800 | | 50 | 100 | 09/20/2016 22:32 |

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-2 | 1609730-006B | Water | 09/13/2016 09:15 | GC18 | 126816 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|----------------|--------|---------------|------------------|
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | |
| Dibromofluoromethane | 95 | 70-130 | | 09/20/2016 22:32 |
| Toluene-d8 | 91 | 70-130 | | 09/20/2016 22:32 |
| 4-BFB | 102 | 70-130 | | 09/20/2016 22:32 |

Analyst(s): HK



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-------------------------------|--------------|--------|------------------|------------------|----------|
| MW-7 | 1609730-007B | Water | 09/13/2016 09:40 | GC16 | 126880 |
| Analytes | Result | RL | DF | Date Analyzed | |
| Acetone | ND | 10 | 1 | 09/20/2016 22:28 | |
| tert-Amyl methyl ether (TAME) | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Benzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Bromobenzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Bromochloromethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Bromodichloromethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Bromoform | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Bromomethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 2-Butanone (MEK) | ND | 2.0 | 1 | 09/20/2016 22:28 | |
| t-Butyl alcohol (TBA) | ND | 2.0 | 1 | 09/20/2016 22:28 | |
| n-Butyl benzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| sec-Butyl benzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| tert-Butyl benzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Carbon Disulfide | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Chlorobenzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Chloroethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Chloroform | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Chloromethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 2-Chlorotoluene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 4-Chlorotoluene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Dibromochloromethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.20 | 1 | 09/20/2016 22:28 | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Dibromomethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,2-Dichlorobenzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,3-Dichlorobenzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,4-Dichlorobenzene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| Dichlorodifluoromethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,1-Dichloroethane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,2-Dichloroethane (1,2-DCA) | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,1-Dichloroethene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| cis-1,2-Dichloroethene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| trans-1,2-Dichloroethene | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,2-Dichloropropane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 1,3-Dichloropropane | ND | 0.50 | 1 | 09/20/2016 22:28 | |
| 2,2-Dichloropropane | ND | 0.50 | 1 | 09/20/2016 22:28 | |

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Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-7 | 1609730-007B | Water | 09/13/2016 09:40 | GC16 | 126880 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------------------|-------------|------|----|------------------|
| 1,1-Dichloropropene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| cis-1,3-Dichloropropene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| trans-1,3-Dichloropropene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Diisopropyl ether (DIPE) | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Ethylbenzene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Ethyl tert-butyl ether (ETBE) | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Freon 113 | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Hexachlorobutadiene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Hexachloroethane | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 2-Hexanone | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Isopropylbenzene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 4-Isopropyl toluene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Methyl-t-butyl ether (MTBE) | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Methylene chloride | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Naphthalene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| n-Propyl benzene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Styrene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Tetrachloroethene | 0.77 | 0.50 | 1 | 09/20/2016 22:28 |
| Toluene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,2,3-Trichlorobenzene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,1,1-Trichloroethane | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,1,2-Trichloroethane | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Trichloroethene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Trichlorofluoromethane | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,2,3-Trichloropropane | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Vinyl Chloride | ND | 0.50 | 1 | 09/20/2016 22:28 |
| Xylenes, Total | ND | 0.50 | 1 | 09/20/2016 22:28 |

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NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/19/16-9/20/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-7 | 1609730-007B | Water | 09/13/2016 09:40 | GC16 | 126880 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|---------|--------|----|------------------|
| Surrogates | REC (%) | Limits | | |
| Dibromofluoromethane | 97 | 70-130 | | 09/20/2016 22:28 |
| Toluene-d8 | 84 | 70-130 | | 09/20/2016 22:28 |
| 4-BFB | 90 | 70-130 | | 09/20/2016 22:28 |

Analyst(s): KF



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/18/16-9/22/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-6 | 1609730-001A | Water | 09/13/2016 07:10 | GC7 | 126782 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|----|------------------|
| TPH(g) | ND | 50 | 1 | 09/22/2016 07:23 |
| MTBE | --- | 5.0 | 1 | 09/22/2016 07:23 |
| Benzene | --- | 0.50 | 1 | 09/22/2016 07:23 |
| Toluene | --- | 0.50 | 1 | 09/22/2016 07:23 |
| Ethylbenzene | --- | 0.50 | 1 | 09/22/2016 07:23 |
| Xylenes | --- | 1.5 | 1 | 09/22/2016 07:23 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 113 | 89-115 | 09/22/2016 07:23 |

Analyst(s): IA

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-4 | 1609730-002A | Water | 09/13/2016 07:45 | GC19 | 126782 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|----|------------------|
| TPH(g) | ND | 50 | 1 | 09/18/2016 20:14 |
| MTBE | --- | 5.0 | 1 | 09/18/2016 20:14 |
| Benzene | --- | 0.50 | 1 | 09/18/2016 20:14 |
| Toluene | --- | 0.50 | 1 | 09/18/2016 20:14 |
| Ethylbenzene | --- | 0.50 | 1 | 09/18/2016 20:14 |
| Xylenes | --- | 1.5 | 1 | 09/18/2016 20:14 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 88 | 70-130 | 09/18/2016 20:14 |

Analyst(s): IA



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/18/16-9/22/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-5 | 1609730-003A | Water | 09/13/2016 08:10 | GC19 | 126782 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|----------------|---------------|----|------------------|
| TPH(g) | ND | 50 | 1 | 09/18/2016 19:43 |
| MTBE | --- | 5.0 | 1 | 09/18/2016 19:43 |
| Benzene | --- | 0.50 | 1 | 09/18/2016 19:43 |
| Toluene | --- | 0.50 | 1 | 09/18/2016 19:43 |
| Ethylbenzene | --- | 0.50 | 1 | 09/18/2016 19:43 |
| Xylenes | --- | 1.5 | 1 | 09/18/2016 19:43 |
| Surrogates | REC (%) | Limits | | |
| aaa-TFT | 87 | 70-130 | | 09/18/2016 19:43 |

Analyst(s): IA

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-1 | 1609730-004A | Water | 09/13/2016 08:35 | GC19 | 126782 |

| Analytes | Result | RL | DF | Date Analyzed |
|-------------------|----------------|---------------|----|------------------|
| TPH(g) | ND | 50 | 1 | 09/18/2016 18:40 |
| MTBE | --- | 5.0 | 1 | 09/18/2016 18:40 |
| Benzene | --- | 0.50 | 1 | 09/18/2016 18:40 |
| Toluene | --- | 0.50 | 1 | 09/18/2016 18:40 |
| Ethylbenzene | --- | 0.50 | 1 | 09/18/2016 18:40 |
| Xylenes | --- | 1.5 | 1 | 09/18/2016 18:40 |
| Surrogates | REC (%) | Limits | | |
| aaa-TFT | 84 | 70-130 | | 09/18/2016 18:40 |

Analyst(s): IA



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/18/16-9/22/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------------------|----------------|--------|--------------------------------|------------|----------------------|
| MW-3A | 1609730-005A | Water | 09/13/2016 08:55 | GC19 | 126782 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g) | 26,000 | | 2500 | 50 | 09/22/2016 06:54 |
| MTBE | --- | | 250 | 50 | 09/22/2016 06:54 |
| Benzene | --- | | 25 | 50 | 09/22/2016 06:54 |
| Toluene | --- | | 25 | 50 | 09/22/2016 06:54 |
| Ethylbenzene | --- | | 25 | 50 | 09/22/2016 06:54 |
| Xylenes | --- | | 75 | 50 | 09/22/2016 06:54 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| aaa-TFT | 102 | | 89-115 | | 09/22/2016 06:54 |
| <u>Analyst(s):</u> IA | | | <u>Analytical Comments:</u> d1 | | |

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------------------|----------------|--------|--------------------------------|------------|----------------------|
| MW-2 | 1609730-006A | Water | 09/13/2016 09:15 | GC19 | 126782 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g) | 37,000 | | 5000 | 100 | 09/22/2016 06:24 |
| MTBE | --- | | 500 | 100 | 09/22/2016 06:24 |
| Benzene | --- | | 50 | 100 | 09/22/2016 06:24 |
| Toluene | --- | | 50 | 100 | 09/22/2016 06:24 |
| Ethylbenzene | --- | | 50 | 100 | 09/22/2016 06:24 |
| Xylenes | --- | | 150 | 100 | 09/22/2016 06:24 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| aaa-TFT | 105 | | 89-115 | | 09/22/2016 06:24 |
| <u>Analyst(s):</u> IA | | | <u>Analytical Comments:</u> d1 | | |



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/18/16-9/22/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-7 | 1609730-007A | Water | 09/13/2016 09:40 | GC19 | 126782 |

| Analytes | Result | RL | DF | Date Analyzed |
|--------------|--------|------|----|------------------|
| TPH(g) | ND | 50 | 1 | 09/18/2016 20:46 |
| MTBE | --- | 5.0 | 1 | 09/18/2016 20:46 |
| Benzene | --- | 0.50 | 1 | 09/18/2016 20:46 |
| Toluene | --- | 0.50 | 1 | 09/18/2016 20:46 |
| Ethylbenzene | --- | 0.50 | 1 | 09/18/2016 20:46 |
| Xylenes | --- | 1.5 | 1 | 09/18/2016 20:46 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| aaa-TFT | 88 | 70-130 | 09/18/2016 20:46 |

Analyst(s): IA



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/16/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-6 | 1609730-001A | Water | 09/13/2016 07:10 | GC11B | 126680 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|--------|----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 50 | 1 | 09/17/2016 04:03 |

| Surrogates | REC (%) | Limits |
|------------|---------|--------|
| C9 | 87 | 70-130 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-4 | 1609730-002A | Water | 09/13/2016 07:45 | GC11B | 126680 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|--------|----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 50 | 1 | 09/17/2016 02:06 |

| Surrogates | REC (%) | Limits |
|------------|---------|--------|
| C9 | 86 | 70-130 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-5 | 1609730-003A | Water | 09/13/2016 08:10 | GC11B | 126680 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|--------|----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 50 | 1 | 09/17/2016 04:42 |

| Surrogates | REC (%) | Limits |
|------------|---------|--------|
| C9 | 87 | 70-130 |

Analyst(s): TK

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-1 | 1609730-004A | Water | 09/13/2016 08:35 | GC11B | 126680 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|--------|----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 50 | 1 | 09/17/2016 02:45 |

| Surrogates | REC (%) | Limits |
|------------|---------|--------|
| C9 | 88 | 70-130 |

Analyst(s): TK

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



Analytical Report

Client: GHD
Date Received: 9/16/16 15:40
Date Prepared: 9/16/16
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
Extraction Method: SW3510C/3630C
Analytical Method: SW8015B
Unit: µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-3A | 1609730-005A | Water | 09/13/2016 08:55 | GC11B | 126680 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|--------|----|----|------------------|
| TPH-Diesel (C10-C23) | 1800 | 50 | 1 | 09/19/2016 17:12 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C26 | 91 | 70-130 | 09/19/2016 17:12 |

Analyst(s): TK Analytical Comments: e4

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-2 | 1609730-006A | Water | 09/13/2016 09:15 | GC11B | 126680 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|--------|----|----|------------------|
| TPH-Diesel (C10-C23) | 2300 | 50 | 1 | 09/19/2016 17:53 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C26 | 92 | 70-130 | 09/19/2016 17:53 |

Analyst(s): TK Analytical Comments: e4

| Client ID | Lab ID | Matrix | Date Collected | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-7 | 1609730-007A | Water | 09/13/2016 09:40 | GC11B | 126680 |

| Analytes | Result | RL | DF | Date Analyzed |
|----------------------|--------|----|----|------------------|
| TPH-Diesel (C10-C23) | ND | 50 | 1 | 09/19/2016 18:33 |

| Surrogates | REC (%) | Limits | Date Analyzed |
|------------|---------|--------|------------------|
| C9 | 92 | 70-130 | 09/19/2016 18:33 |

Analyst(s): TK



Quality Control Report

Client: GHD
Date Prepared: 9/19/16
Date Analyzed: 9/19/16
Instrument: GC16
Matrix: Water
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
BatchID: 126816
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-126816
 1609730-001BMS/MSD

QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone | ND | - | 10 | - | - | - | - |
| tert-Amyl methyl ether (TAME) | ND | 9.25 | 0.50 | 10 | - | 92 | 54-140 |
| Benzene | ND | 9.15 | 0.50 | 10 | - | 91 | 47-158 |
| Bromobenzene | ND | - | 0.50 | - | - | - | - |
| Bromochloromethane | ND | - | 0.50 | - | - | - | - |
| Bromodichloromethane | ND | - | 0.50 | - | - | - | - |
| Bromoform | ND | - | 0.50 | - | - | - | - |
| Bromomethane | ND | - | 0.50 | - | - | - | - |
| 2-Butanone (MEK) | ND | - | 2.0 | - | - | - | - |
| t-Butyl alcohol (TBA) | ND | 32.0 | 2.0 | 40 | - | 80 | 42-140 |
| n-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| sec-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| tert-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| Carbon Disulfide | ND | - | 0.50 | - | - | - | - |
| Carbon Tetrachloride | ND | - | 0.50 | - | - | - | - |
| Chlorobenzene | ND | 8.67 | 0.50 | 10 | - | 87 | 43-157 |
| Chloroethane | ND | - | 0.50 | - | - | - | - |
| Chloroform | ND | - | 0.50 | - | - | - | - |
| Chloromethane | ND | - | 0.50 | - | - | - | - |
| 2-Chlorotoluene | ND | - | 0.50 | - | - | - | - |
| 4-Chlorotoluene | ND | - | 0.50 | - | - | - | - |
| Dibromochloromethane | ND | - | 0.50 | - | - | - | - |
| 1,2-Dibromo-3-chloropropane | ND | - | 0.20 | - | - | - | - |
| 1,2-Dibromoethane (EDB) | ND | 9.61 | 0.50 | 10 | - | 96 | 44-155 |
| Dibromomethane | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,4-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| Dichlorodifluoromethane | ND | - | 0.50 | - | - | - | - |
| 1,1-Dichloroethane | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichloroethane (1,2-DCA) | ND | 9.20 | 0.50 | 10 | - | 92 | 66-125 |
| 1,1-Dichloroethene | ND | 10.0 | 0.50 | 10 | - | 100 | 47-149 |
| cis-1,2-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| trans-1,2-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 2,2-Dichloropropane | ND | - | 0.50 | - | - | - | - |

(Cont.)

NELAP 4033ORELAP

QA/QC Officer



Quality Control Report

Client: GHD
Date Prepared: 9/19/16
Date Analyzed: 9/19/16
Instrument: GC16
Matrix: Water
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
BatchID: 126816
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-126816
 1609730-001BMS/MSD

QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| 1,1-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| cis-1,3-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| trans-1,3-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| Diisopropyl ether (DIPE) | ND | 9.53 | 0.50 | 10 | - | 95 | 57-136 |
| Ethylbenzene | ND | - | 0.50 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 9.65 | 0.50 | 10 | - | 97 | 55-137 |
| Freon 113 | ND | - | 0.50 | - | - | - | - |
| Hexachlorobutadiene | ND | - | 0.50 | - | - | - | - |
| Hexachloroethane | ND | - | 0.50 | - | - | - | - |
| 2-Hexanone | ND | - | 0.50 | - | - | - | - |
| Isopropylbenzene | ND | - | 0.50 | - | - | - | - |
| 4-Isopropyl toluene | ND | - | 0.50 | - | - | - | - |
| Methyl-t-butyl ether (MTBE) | ND | 8.96 | 0.50 | 10 | - | 90 | 53-139 |
| Methylene chloride | ND | - | 0.50 | - | - | - | - |
| 4-Methyl-2-pentanone (MIBK) | ND | - | 0.50 | - | - | - | - |
| Naphthalene | ND | - | 0.50 | - | - | - | - |
| n-Propyl benzene | ND | - | 0.50 | - | - | - | - |
| Styrene | ND | - | 0.50 | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | ND | - | 0.50 | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | ND | - | 0.50 | - | - | - | - |
| Tetrachloroethene | ND | - | 0.50 | - | - | - | - |
| Toluene | ND | 8.32 | 0.50 | 10 | - | 83 | 52-137 |
| 1,2,3-Trichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,2,4-Trichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,1,1-Trichloroethane | ND | - | 0.50 | - | - | - | - |
| 1,1,2-Trichloroethane | ND | - | 0.50 | - | - | - | - |
| Trichloroethene | ND | 9.66 | 0.50 | 10 | - | 97 | 43-157 |
| Trichlorofluoromethane | ND | - | 0.50 | - | - | - | - |
| 1,2,3-Trichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,2,4-Trimethylbenzene | ND | - | 0.50 | - | - | - | - |
| 1,3,5-Trimethylbenzene | ND | - | 0.50 | - | - | - | - |
| Vinyl Chloride | ND | - | 0.50 | - | - | - | - |
| Xylenes, Total | ND | - | 0.50 | - | - | - | - |



Quality Control Report

Client: GHD
Date Prepared: 9/19/16
Date Analyzed: 9/19/16
Instrument: GC16
Matrix: Water
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
BatchID: 126816
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-126816
 1609730-001BMS/MSD

QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------|-----------|------------|----|---------|------------|----------|------------|
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | 23.5 | 24.4 | | 25 | 94 | 97 | 70-130 |
| Toluene-d8 | 22.2 | 21.9 | | 25 | 89 | 88 | 70-130 |
| 4-BFB | 2.22 | 2.10 | | 2.5 | 89 | 84 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|-------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| tert-Amyl methyl ether (TAME) | 10.8 | 10.9 | 10 | ND | 108 | 109 | 69-139 | 1.32 | 20 |
| Benzene | 10.0 | 9.87 | 10 | ND | 97 | 96 | 69-141 | 1.31 | 20 |
| t-Butyl alcohol (TBA) | 43.0 | 47.0 | 40 | ND | 107 | 118 | 41-152 | 9.06 | 20 |
| Chlorobenzene | 8.48 | 8.23 | 10 | ND | 85 | 82 | 77-120 | 3.06 | 20 |
| 1,2-Dibromoethane (EDB) | 9.47 | 9.52 | 10 | ND | 95 | 95 | 76-135 | 0 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 10.2 | 10.4 | 10 | ND | 102 | 104 | 73-139 | 1.42 | 20 |
| 1,1-Dichloroethene | 9.98 | 9.67 | 10 | ND | 100 | 97 | 59-140 | 3.17 | 20 |
| Diisopropyl ether (DIPE) | 10.4 | 10.2 | 10 | ND | 104 | 102 | 72-140 | 1.44 | 20 |
| Ethyl tert-butyl ether (ETBE) | 10.9 | 11.0 | 10 | ND | 109 | 110 | 71-140 | 0.583 | 20 |
| Methyl-t-butyl ether (MTBE) | 10.5 | 10.7 | 10 | ND | 105 | 107 | 73-139 | 2.09 | 20 |
| Toluene | 8.42 | 8.14 | 10 | ND | 82 | 80 | 71-128 | 3.43 | 20 |
| Trichloroethene | 9.96 | 9.80 | 10 | ND | 100 | 98 | 64-132 | 1.64 | 20 |
| Surrogate Recovery | | | | | | | | | |
| Dibromofluoromethane | 25.0 | 25.0 | 25 | | 100 | 100 | 73-131 | 0 | 20 |
| Toluene-d8 | 20.5 | 20.4 | 25 | | 82 | 82 | 72-117 | 0 | 20 |
| 4-BFB | 2.35 | 2.37 | 2.5 | | 94 | 95 | 74-116 | 0.763 | 20 |



Quality Control Report

Client: GHD
Date Prepared: 9/20/16
Date Analyzed: 9/20/16
Instrument: GC16
Matrix: Water
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
BatchID: 126880
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-126880
 1609762-014AMS/MSD

QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone | ND | - | 10 | - | - | - | - |
| tert-Amyl methyl ether (TAME) | ND | 10.3 | 0.50 | 10 | - | 103 | 54-140 |
| Benzene | ND | 10.1 | 0.50 | 10 | - | 101 | 47-158 |
| Bromobenzene | ND | - | 0.50 | - | - | - | - |
| Bromochloromethane | ND | - | 0.50 | - | - | - | - |
| Bromodichloromethane | ND | - | 0.50 | - | - | - | - |
| Bromoform | ND | - | 0.50 | - | - | - | - |
| Bromomethane | ND | - | 0.50 | - | - | - | - |
| 2-Butanone (MEK) | ND | - | 2.0 | - | - | - | - |
| t-Butyl alcohol (TBA) | ND | 37.4 | 2.0 | 40 | - | 94 | 42-140 |
| n-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| sec-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| tert-Butyl benzene | ND | - | 0.50 | - | - | - | - |
| Carbon Disulfide | ND | - | 0.50 | - | - | - | - |
| Carbon Tetrachloride | ND | - | 0.50 | - | - | - | - |
| Chlorobenzene | ND | 8.54 | 0.50 | 10 | - | 85 | 43-157 |
| Chloroethane | ND | - | 0.50 | - | - | - | - |
| Chloroform | ND | - | 0.50 | - | - | - | - |
| Chloromethane | ND | - | 0.50 | - | - | - | - |
| 2-Chlorotoluene | ND | - | 0.50 | - | - | - | - |
| 4-Chlorotoluene | ND | - | 0.50 | - | - | - | - |
| Dibromochloromethane | ND | - | 0.50 | - | - | - | - |
| 1,2-Dibromo-3-chloropropane | ND | - | 0.20 | - | - | - | - |
| 1,2-Dibromoethane (EDB) | ND | 8.85 | 0.50 | 10 | - | 88 | 44-155 |
| Dibromomethane | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,4-Dichlorobenzene | ND | - | 0.50 | - | - | - | - |
| Dichlorodifluoromethane | ND | - | 0.50 | - | - | - | - |
| 1,1-Dichloroethane | ND | - | 0.50 | - | - | - | - |
| 1,1-Dichloroethene | ND | 10.0 | 0.50 | 10 | - | 100 | 47-149 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 10.3 | 0.50 | 10 | - | 103 | 66-125 |
| cis-1,2-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| trans-1,2-Dichloroethene | ND | - | 0.50 | - | - | - | - |
| 1,2-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,3-Dichloropropane | ND | - | 0.50 | - | - | - | - |
| 2,2-Dichloropropane | ND | - | 0.50 | - | - | - | - |



Quality Control Report

Client: GHD
Date Prepared: 9/20/16
Date Analyzed: 9/20/16
Instrument: GC16
Matrix: Water
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
BatchID: 126880
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-126880
 1609762-014AMS/MSD

QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| 1,1-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| cis-1,3-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| trans-1,3-Dichloropropene | ND | - | 0.50 | - | - | - | - |
| Diisopropyl ether (DIPE) | ND | 10.3 | 0.50 | 10 | - | 103 | 57-136 |
| Ethylbenzene | ND | - | 0.50 | - | - | - | - |
| Ethyl tert-butyl ether (ETBE) | ND | 10.7 | 0.50 | 10 | - | 107 | 55-137 |
| Freon 113 | ND | - | 0.50 | - | - | - | - |
| Hexachlorobutadiene | ND | - | 0.50 | - | - | - | - |
| Hexachloroethane | ND | - | 0.50 | - | - | - | - |
| 2-Hexanone | ND | - | 0.50 | - | - | - | - |
| Isopropylbenzene | ND | - | 0.50 | - | - | - | - |
| 4-Isopropyl toluene | ND | - | 0.50 | - | - | - | - |
| Methyl-t-butyl ether (MTBE) | ND | 9.99 | 0.50 | 10 | - | 100 | 53-139 |
| Methylene chloride | ND | - | 0.50 | - | - | - | - |
| 4-Methyl-2-pentanone (MIBK) | ND | - | 0.50 | - | - | - | - |
| Naphthalene | ND | - | 0.50 | - | - | - | - |
| n-Propyl benzene | ND | - | 0.50 | - | - | - | - |
| Styrene | ND | - | 0.50 | - | - | - | - |
| 1,1,1,2-Tetrachloroethane | ND | - | 0.50 | - | - | - | - |
| 1,1,2,2-Tetrachloroethane | ND | - | 0.50 | - | - | - | - |
| Tetrachloroethene | ND | - | 0.50 | - | - | - | - |
| Toluene | ND | 8.78 | 0.50 | 10 | - | 88 | 52-137 |
| 1,2,3-Trichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,2,4-Trichlorobenzene | ND | - | 0.50 | - | - | - | - |
| 1,1,1-Trichloroethane | ND | - | 0.50 | - | - | - | - |
| 1,1,2-Trichloroethane | ND | - | 0.50 | - | - | - | - |
| Trichloroethene | ND | 9.78 | 0.50 | 10 | - | 98 | 43-157 |
| Trichlorofluoromethane | ND | - | 0.50 | - | - | - | - |
| 1,2,3-Trichloropropane | ND | - | 0.50 | - | - | - | - |
| 1,2,4-Trimethylbenzene | ND | - | 0.50 | - | - | - | - |
| 1,3,5-Trimethylbenzene | ND | - | 0.50 | - | - | - | - |
| Vinyl Chloride | ND | - | 0.50 | - | - | - | - |
| Xylenes, Total | ND | - | 0.50 | - | - | - | - |



Quality Control Report

Client: GHD
Date Prepared: 9/20/16
Date Analyzed: 9/20/16
Instrument: GC16
Matrix: Water
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
BatchID: 126880
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-126880
 1609762-014AMS/MSD

QC Summary Report for SW8260B

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------|-----------|------------|----|---------|------------|----------|------------|
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | 24.0 | 24.5 | | 25 | 96 | 98 | 70-130 |
| Toluene-d8 | 21.2 | 21.4 | | 25 | 85 | 86 | 70-130 |
| 4-BFB | 2.22 | 2.52 | | 2.5 | 89 | 101 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|-------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| tert-Amyl methyl ether (TAME) | 10.7 | 11.0 | 10 | ND | 107 | 110 | 69-139 | 2.95 | 20 |
| Benzene | 10.0 | 10.2 | 10 | ND | 100 | 102 | 69-141 | 1.80 | 20 |
| t-Butyl alcohol (TBA) | 41.6 | 43.7 | 40 | ND | 104 | 109 | 41-152 | 4.87 | 20 |
| Chlorobenzene | 8.74 | 8.82 | 10 | ND | 87 | 88 | 77-120 | 0.918 | 20 |
| 1,2-Dibromoethane (EDB) | 9.80 | 9.88 | 10 | ND | 98 | 99 | 76-135 | 0.797 | 20 |
| 1,1-Dichloroethene | 10.4 | 10.4 | 10 | ND | 104 | 105 | 59-140 | 0.866 | 20 |
| 1,2-Dichloroethane (1,2-DCA) | 10.1 | 10.5 | 10 | ND | 101 | 105 | 73-139 | 3.22 | 20 |
| Diisopropyl ether (DIPE) | 10.6 | 11.0 | 10 | ND | 106 | 110 | 72-140 | 3.29 | 20 |
| Ethyl tert-butyl ether (ETBE) | 10.8 | 11.3 | 10 | ND | 108 | 113 | 71-140 | 4.50 | 20 |
| Methyl-t-butyl ether (MTBE) | 10.6 | 10.9 | 10 | ND | 106 | 109 | 73-139 | 3.30 | 20 |
| Toluene | 8.44 | 8.48 | 10 | ND | 83 | 84 | 71-128 | 0.545 | 20 |
| Trichloroethene | 10.0 | 10.2 | 10 | ND | 100 | 102 | 64-132 | 1.89 | 20 |
| Surrogate Recovery | | | | | | | | | |
| Dibromofluoromethane | 24.1 | 24.3 | 25 | | 96 | 97 | 70-130 | 0.787 | 20 |
| Toluene-d8 | 20.0 | 20.1 | 25 | | 80 | 80 | 70-130 | 0 | 20 |
| 4-BFB | 2.24 | 2.30 | 2.5 | | 90 | 92 | 70-130 | 2.69 | 20 |



Quality Control Report

Client: GHD
Date Prepared: 9/18/16
Date Analyzed: 9/18/16
Instrument: GC19
Matrix: Water
Project: F1-160913; 800 Franklin St, Oakland

WorkOrder: 1609730
BatchID: 126782
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-126782
 1609762-009BMS/MSD

QC Summary Report for SW8021B/8015Bm

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------|-----------|------------|------|---------|------------|----------|------------|
| TPH(btex) | ND | 60.1 | 40 | 60 | - | 100 | 85-112 |
| MTBE | ND | 9.66 | 5.0 | 10 | - | 97 | 74-127 |
| Benzene | ND | 9.92 | 0.50 | 10 | - | 99 | 81-124 |
| Toluene | ND | 10.3 | 0.50 | 10 | - | 103 | 79-131 |
| Ethylbenzene | ND | 10.6 | 0.50 | 10 | - | 106 | 86-127 |
| Xylenes | ND | 32.0 | 1.5 | 30 | - | 107 | 87-133 |
| Surrogate Recovery | | | | | | | |
| aaa-TFT | 8.89 | 9.24 | | 10 | 89 | 92 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---------------------------|-----------|------------|---------|------------|---------|----------|---------------|-----|-----------|
| TPH(btex) | NR | NR | | 39000 | NR | NR | - | NR | |
| MTBE | NR | NR | | ND<500 | NR | NR | - | NR | |
| Benzene | NR | NR | | 4600 | NR | NR | - | NR | |
| Toluene | NR | NR | | 11000 | NR | NR | - | NR | |
| Ethylbenzene | NR | NR | | 1200 | NR | NR | - | NR | |
| Xylenes | NR | NR | | 22000 | NR | NR | - | NR | |
| Surrogate Recovery | | | | | | | | | |
| aaa-TFT | NR | NR | | | NR | NR | - | NR | |



Quality Control Report

| | |
|---|---|
| Client: GHD | WorkOrder: 1609730 |
| Date Prepared: 9/15/16 | BatchID: 126680 |
| Date Analyzed: 9/16/16 | Extraction Method: SW3510C/3630C |
| Instrument: GC6B | Analytical Method: SW8015B |
| Matrix: Water | Unit: µg/L |
| Project: F1-160913; 800 Franklin St, Oakland | Sample ID: MB/LCS/LCSD-126680 |

QC Report for SW8015B w/ SG Clean-Up

| Analyte | MB Result | RL | SPK Val | MB SS %REC | MB SS Limits |
|---------------------------|-----------|-----|---------|------------|--------------|
| TPH-Diesel (C10-C23) | ND | 50 | - | - | - |
| TPH-Motor Oil (C18-C36) | ND | 250 | - | - | - |
| Surrogate Recovery | | | | | |
| C9 | 562 | | 625 | 90 | 65-122 |

| Analyte | LCS Result | LCSD Result | SPK Val | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Limit |
|---------------------------|------------|-------------|---------|----------|-----------|-----------------|------|-----------|
| TPH-Diesel (C10-C23) | 1160 | 1180 | 1000 | 116 | 118 | 61-157 | 1.77 | 30 |
| Surrogate Recovery | | | | | | | | |
| C9 | 567 | 557 | 625 | 91 | 89 | 65-122 | 1.75 | 30 |



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1609730

ClientCode: CETE

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Eric Chodoroff
GHD
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX: (510) 420-9170

Email: eric.chodoroff@ghd.com
cc/3rd Party: bryan.fong@ghd.com;
PO:
ProjectNo: F1-160913; 800 Franklin St, Oakland

Bill to:

Jeffrey Cloud
GHD
5900 Hollis St, Ste. A
Emeryville, CA 94608
Jeffrey.Cloud@ghd.com

Requested TAT: 5 days;

Date Received: 09/16/2016

Date Logged: 09/16/2016

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 1609730-001 | MW-6 | Water | 9/13/2016 7:10 | <input type="checkbox"/> | B | A | A | A | | | | | | | | | |
| 1609730-002 | MW-4 | Water | 9/13/2016 7:45 | <input type="checkbox"/> | B | A | | A | | | | | | | | | |
| 1609730-003 | MW-5 | Water | 9/13/2016 8:10 | <input type="checkbox"/> | B | A | | A | | | | | | | | | |
| 1609730-004 | MW-1 | Water | 9/13/2016 8:35 | <input type="checkbox"/> | B | A | | A | | | | | | | | | |
| 1609730-005 | MW-3A | Water | 9/13/2016 8:55 | <input type="checkbox"/> | B | A | | A | | | | | | | | | |
| 1609730-006 | MW-2 | Water | 9/13/2016 9:15 | <input type="checkbox"/> | B | A | | A | | | | | | | | | |
| 1609730-007 | MW-7 | Water | 9/13/2016 9:40 | <input type="checkbox"/> | B | A | | A | | | | | | | | | |

Test Legend:

| | | | | | | | |
|---|---------|----|----------|----|-------------|----|-------------|
| 1 | 8260B_W | 2 | G-MBTX_W | 3 | PREF REPORT | 4 | TPH(D)WSG_W |
| 5 | | 6 | | 7 | | 8 | |
| 9 | | 10 | | 11 | | 12 | |

Prepared by: Maria Venegas

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A contain testgroup Multi RangeWSG_W.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: GHD

QC Level: LEVEL 2

Work Order: 1609730

Project: F1-160913; 800 Franklin St, Oakland

Client Contact: Eric Chodoroff

Date Logged: 9/16/2016

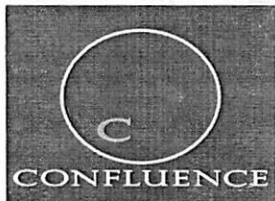
Comments:

Contact's Email: eric.chodoroff@ghd.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|-----------|--------|--|------------------------|--------------------------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1609730-001A | MW-6 | Water | Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up | 3 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 9/13/2016 7:10 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-001B | MW-6 | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 9/13/2016 7:10 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-002A | MW-4 | Water | Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up | 3 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 9/13/2016 7:45 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-002B | MW-4 | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 9/13/2016 7:45 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-003A | MW-5 | Water | Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up | 3 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 9/13/2016 8:10 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-003B | MW-5 | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 9/13/2016 8:10 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-004A | MW-1 | Water | Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up | 3 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 9/13/2016 8:35 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-004B | MW-1 | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 9/13/2016 8:35 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-005A | MW-3A | Water | Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up | 3 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 9/13/2016 8:55 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-005B | MW-3A | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 9/13/2016 8:55 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-006A | MW-2 | Water | Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up | 3 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 9/13/2016 9:15 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-006B | MW-2 | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 9/13/2016 9:15 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-007A | MW-7 | Water | Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up | 3 | 2 VOAs w/HCL + 2-aVOAs (multi-range) | <input type="checkbox"/> | 9/13/2016 9:40 | 5 days | Present | <input type="checkbox"/> | |
| 1609730-007B | MW-7 | Water | SW8260B (VOCs) | 1 | VOA w/ HCl | <input type="checkbox"/> | 9/13/2016 9:40 | 5 days | Present | <input type="checkbox"/> | |

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Confluence Environmental, Inc.
 3308 El Camino Ave, Suite 300 # 148
 Sacramento, CA 95821
 916-760-7641 - main
 916-473-8617 - fax
 www.confluence-env.com

1609730

Chain of Custody

Page 1 of 1

Project Name: 800 Franklin St, Oakland - Chiu Property

Job Number: FI-160913

TAT: STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

| | | |
|---|--|--|
| Lab: McCampbell | Site Address: 800 Franklin St, Oakland | Confluence PM: Jason Brown |
| Address: 1534 Willow Pass Rd, Pittsburg, CA 94565 | California Global ID No.: T0600100050 | Phone / Fax: 916-760-7641 / 916-473-8617 |
| Contact: | Include EDF w/ Report: <u>Yes</u> No | Confluence Log Code: CESC |
| Phone / Fax: 925-252-9262 | Consultant / PM: GHD / Eric Chodoroff | Report to: Bryan Fong & Eric Chodoroff |
| | Phone / Fax: 510-385-0509 | Invoice to: GHD |

| Sample ID | Time | Date | Matrix | | | Laboratory No. | No. of Containers | Preservative | | | | | Requested Analysis | | | | | Notes and Comments | | |
|-----------|------|---------|------------|--------------|-----|----------------|-------------------|--------------|--------------------------------|------------------|-----|------|--------------------|---------------------------|-------------|--|--|--------------------|--|--|
| | | | Soil/Solid | Water/Liquid | Air | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | TPH-G (8015) | VOC's w/BTEX, MTBE (8260) | TPH-D w/sgc | | | | | |
| + MW-6 | 0710 | 9/13/16 | X | | | 4 | 2 | | | 2 | | | X | X | X | | | | | |
| + MW-4 | 0745 | | X | | | 4 | 2 | | | 2 | | | X | X | X | | | | | |
| + MW-5 | 0810 | | X | | | 4 | 2 | | | 2 | | | X | X | X | | | | | |
| + MW-1 | 0835 | | X | | | 4 | 2 | | | 2 | | | X | X | X | | | | | |
| + MW-3A | 0855 | | X | | | 4 | 2 | | | 2 | | | X | X | X | | | | | |
| + MW-2 | 0915 | | X | | | 4 | 2 | | | 2 | | | X | X | X | | | | | |
| + MW-7 | 0940 | | X | | | 4 | 2 | | | 2 | | | X | X | X | | | | | |

| | | | | | | | | |
|---|-------------------------------|--|---------|------|---------------------------|--|---------|------|
| Sampler's Name: <u>A. Feeley</u> | Relinquished By / Affiliation | | Date | Time | Accepted By / Affiliation | | Date | Time |
| Sampler's Company: Confluence Environmental | <i>[Signature]</i> | | 9-16-16 | 1155 | <i>[Signature]</i> | | 9-16-16 | 1155 |
| Shipment Date: | <i>[Signature]</i> | | 9-16-16 | 1540 | <i>[Signature]</i> | | 9/16/16 | 1540 |
| Shipment Method: | | | | | | | | |

Special Instructions: ICE/6.3

- ICE/6.3
- GOOD CONDITION
- HEAD SPACE ABSENT
- DECHLORINATED IN LAB
- APPROPRIATE CONTAINERS
- pH ADJUSTED IN LAB



Sample Receipt Checklist

Client Name: **GHD**
 Project Name: **F1-160913; 800 Franklin St, Oakland**
 WorkOrder №: **1609730** Matrix: Water
 Carrier: David Shaver (MAI Courier)

Date and Time Received: **9/16/2016 15:40**
 Date Logged: **9/16/2016**
 Received by: **Maria Venegas**
 Logged by: **Maria Venegas**

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Sample/Temp Blank temperature Temp: 6.3°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No
 (Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

 Comments:



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 916-760-7641 - main
 916-473-8617 - fax
 www.confluence-env.com

Chain of Custody

Project Name: **800 Franklin St, Oakland**

Job Number: **F1-160913**

TAT: **STANDARD** 5 DAY 2 DAY 24 HOUR OTHER:

| Lab: McCampbell | | Site Address: 800 Franklin St, Oakland | | Confluence PM: Jason Brown | | | | | | | | | | | |
|---|------|--|------------|--|-----|-------------------|--------------|--------------------------------|------------------|------|--------------------|--------------|----------------------------|--------------------|--------------|
| Address: 1534 Willow Pass Rd, Pittsburg, CA 94565 | | California Global ID No.: 10600100050 | | Phone / Fax: 916-760-7641 / 916-473-8617 | | | | | | | | | | | |
| Contact: | | Include EDF w/ Report: <input checked="" type="radio"/> Yes <input type="radio"/> No | | Confluence Log Code: CESC | | | | | | | | | | | |
| Phone / Fax: 925-252-9262 | | Consultant / PM: GHD / Eric Chodoroff | | Report to: Bryan Fong & Eric Chodoroff | | | | | | | | | | | |
| | | Phone / Fax: 510-385-0509 | | Invoice to: GHD | | | | | | | | | | | |
| Sample ID | Time | Date | Matrix | | | No. of Containers | Preservative | | | | Requested Analysis | | | Notes and Comments | |
| | | | Soil Solid | Water/Liquid | Air | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | TPH-G (8015) | VOC's w/ BLEX, MIBF (8260) | | TPH-D w/ sec |
| MW-6 | 0710 | 6/13/09 | | X | | 4 | 2 | | | | | X | | | |
| MW-4 | 0745 | | | X | | 4 | 2 | | | | | X | | | |
| MW-5 | 0810 | | | X | | 4 | 2 | | | | | X | | | |
| MW-1 | 0835 | | | X | | 4 | 2 | | | | | X | | | |
| MW-3A | 0855 | | | X | | 4 | 2 | | | | | X | | | |
| MW-2 | 0915 | | | X | | 4 | 2 | | | | | X | | | |
| MW-7 | 0940 | | | X | | 4 | 2 | | | | | X | | | |
| Sampler's Name: A. Feehey | | Relinquished By / Affiliation: <i>A. Feehey</i> | | Date | | Time | | Accepted By / Affiliation | | Date | | Time | | | |
| Sampler's Company: Confluence Environmental | | | | | | | | | | | | | | | |
| Shipment Date: | | | | | | | | | | | | | | | |
| Shipment Method: | | | | | | | | | | | | | | | |
| Special Instructions: | | | | | | | | | | | | | | | |

Appendix C
Confluence Environmental, Inc. - Field Data
Sheets

Meter Calibration Log

| EQUIPMENT MAKE | EQUIPMENT MODEL | SERIAL NUMBER | DATE | TIME | TEMP OF CALIBRATION STANDARD (°C or °F) | pH | pH | pH | SPECIFIC CONDUCTANCE | ORP | DISSOLVED OXYGEN |
|----------------|-----------------|---------------|---------|------|---|----------|----------|----------|----------------------|-----------------|------------------|
| | | | | | | STANDARD | STANDARD | STANDARD | | | |
| | | | | | | 4 | 7 | 10 | 1413 μ S/cm | See below mV | 100 mg/L or % |
| YSI | Pro Plus | 156105184 | 9/13/16 | 0700 | 15.1 | 4.0 | 7.0 | 10.0 | 1413 | 244.4 | 100% |
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Water Level Measurements

Job Number: F1-160913 Date: 9/13/16 Client: CRA

Site: Chiu Property

| Well I.D. | Time | Dia | Depth to NAPL | Thickness of NAPL | Depth to water (DTW) | Total Depth (measured) | Total Depth (historical) | Ref Point TOC/TOB | | |
|-----------|------|-----|---------------|-------------------|----------------------|------------------------|--------------------------|-------------------|--|--|
| MW-1 | 0824 | 2 | | | 22.81 | 33.35 | | TOC | | |
| MW-2 | 0630 | 2 | | | 22.73 | 33.88 | | | | |
| MW-3A | 0640 | 4 | | | 23.22 | 33.99 | | | | |
| MW-4 | 0625 | 2 | | | 22.71 | 33.90 | | | | |
| MW-5 | 0642 | 2 | | | 23.34 | 34.61 | | | | |
| MW-6 | 0633 | 2 | | | 23.40 | 32.55 | | | | |
| MW-7 | 0920 | 2 | | | 23.67 | 35.06 | | | | |
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Purging And Sampling Data Sheet

| | | |
|--|------------------------------------|--------------------------------------|
| Job#: F1-160913 | Sampler: A Feeney | Client: CRA |
| Well ID: MW-5 | Date: 9/13/16 | Site: Chiu Property, Oakland |
| Well diam: 1/4" 1" <input checked="" type="radio"/> 3" 4" 6" Other: | DTW: 23.34 Total Depth: 34.61 | |
| Purge equip: ES - diam: Bladder <input checked="" type="radio"/> Peri Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other: Tubing: OD: New <input checked="" type="radio"/> Dedicated NA | | |
| Purge method: 3-5 Case Volume <input checked="" type="radio"/> Micro/Low-Flow Extraction Other: | | |
| Pump depth/ intake: 28' Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius ² X 0.163 | | |
| (TD - DTW X Multiplier = 1 Volume) | | 80% Recovery (TD - DTW X 0.20 + DTW) |

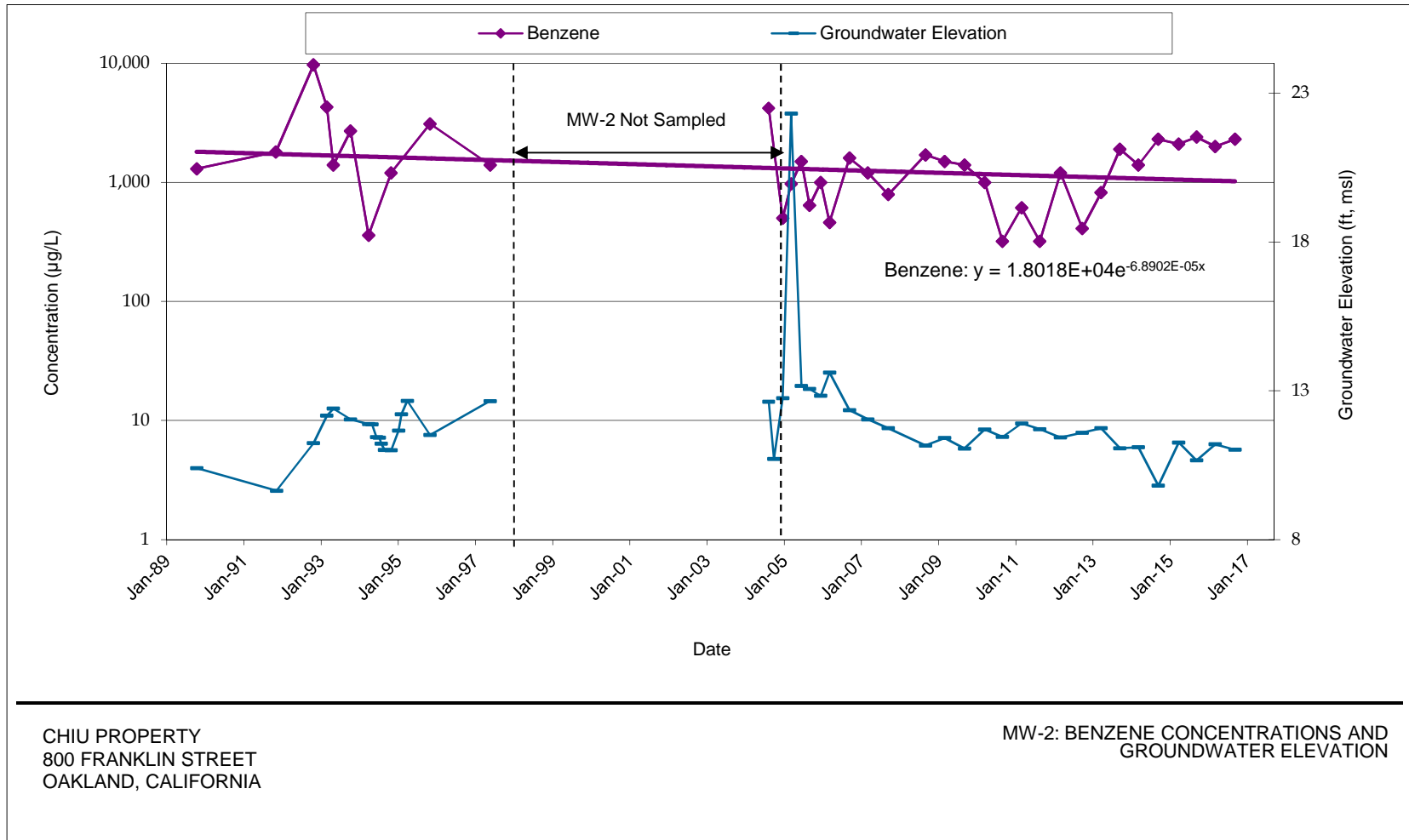
1 Volume = _____ X _____ = _____ (Total Purge) 80%= _____

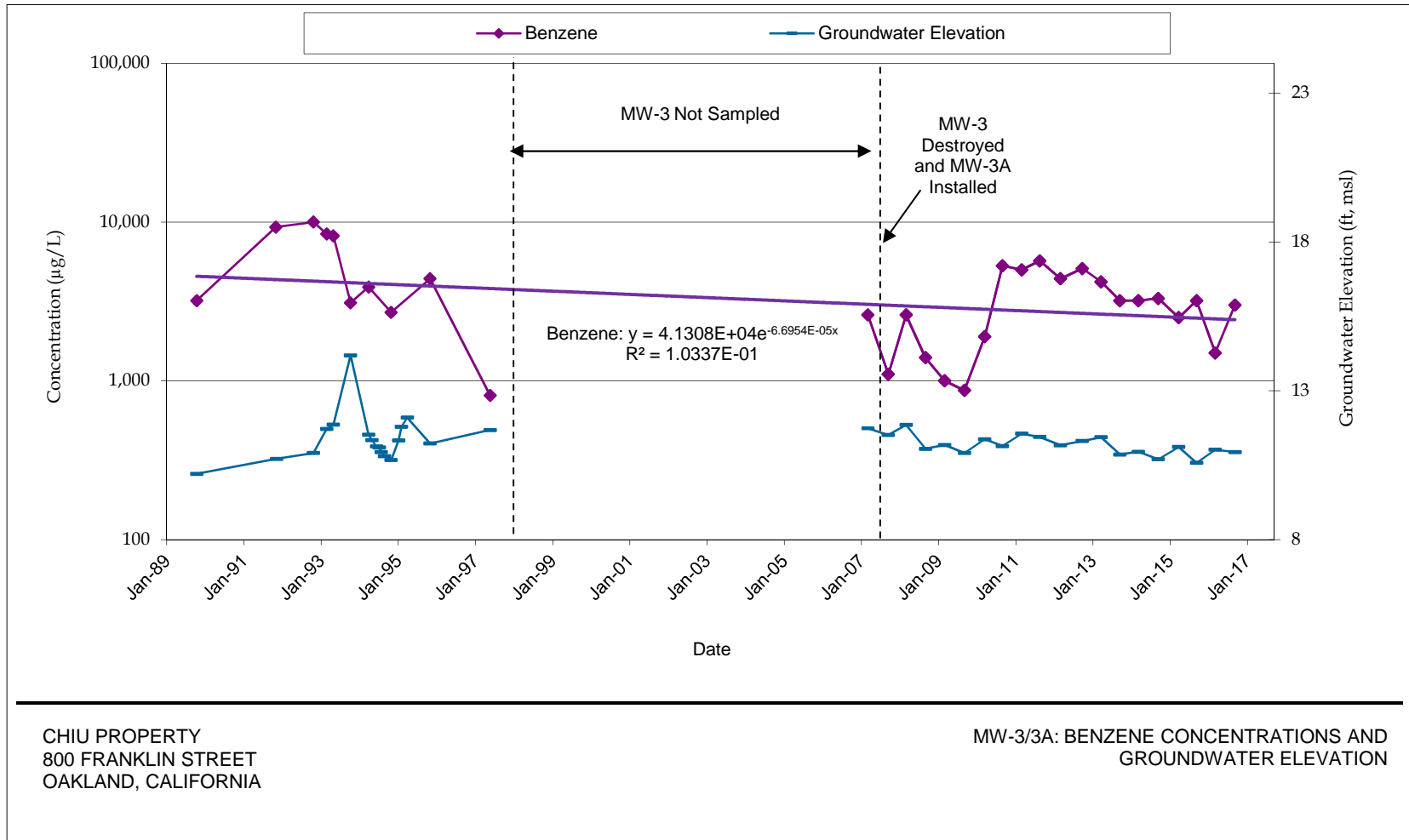
| Time | Temp (°C/°F) | pH | Cond (mS/µS) | Turbidity (NTU) | Purge Rate (gal or ml/min) | Volume Removed (gal/L) | DO (mg/l) | ORP (mv) | DTW | Notes |
|------|-----------------|------|-----------------|--------------------|----------------------------------|------------------------------|-----------|-------------|-------|-------|
| 0753 | 19.3 | 6.45 | 1401 | 5.5 | 100 | .3 | 0.41 | 126.4 | 23.40 | |
| 0756 | 19.3 | 6.42 | 1519 | 4.9 | | .6 | 0.30 | 131.0 | 23.40 | |
| 0759 | 19.6 | 6.41 | 1521 | 4.5 | | .9 | 0.43 | 138.2 | 23.40 | |
| 0802 | 19.5 | 6.41 | 1523 | 4.4 | | 1.2 | 0.45 | 143.2 | 23.40 | |
| 0805 | 19.7 | 6.40 | 1518 | 4.5 | | 1.5 | 0.47 | 143.6 | 23.40 | |
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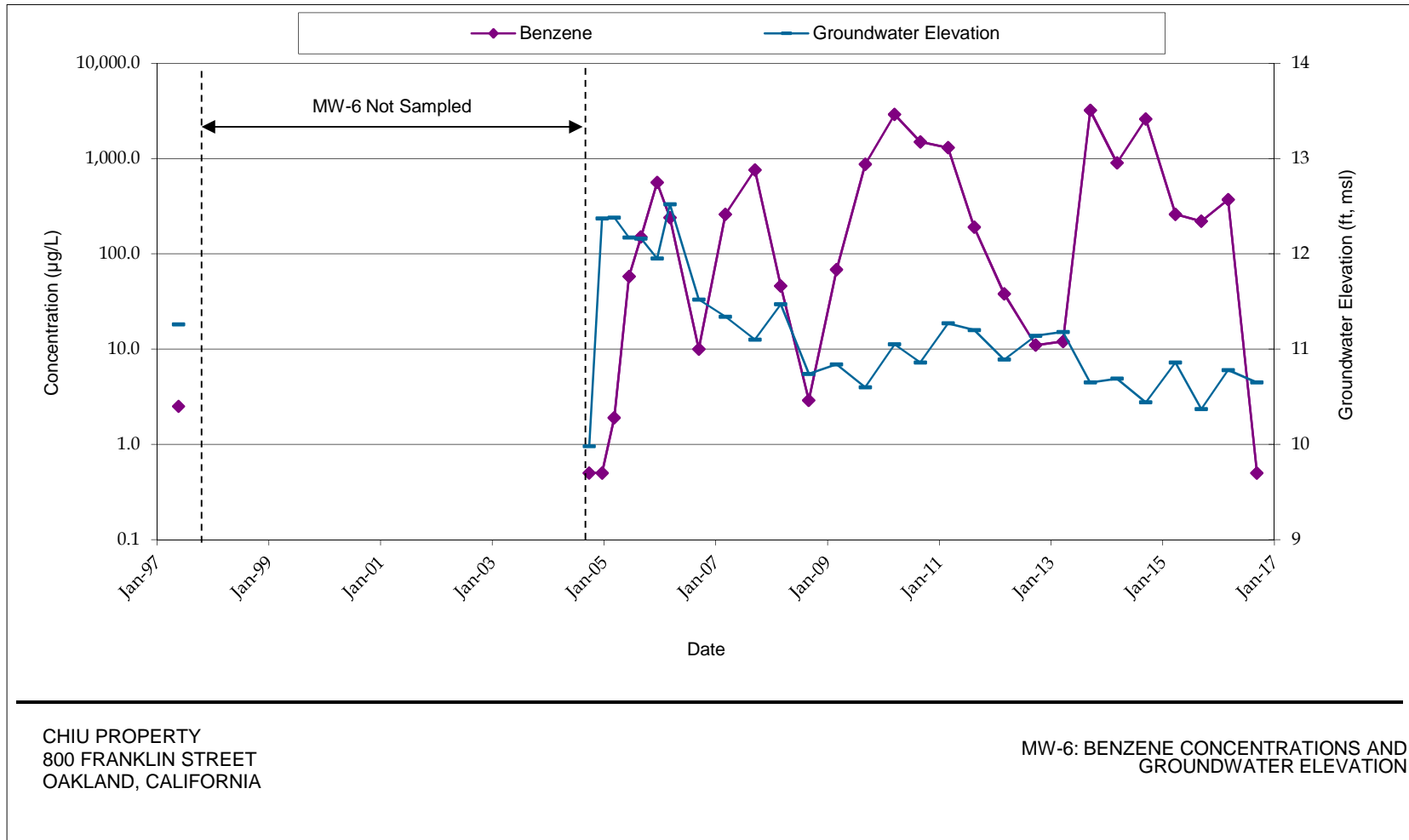
| | | |
|---|-------------------|-----------------------------------|
| Did well dewater? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | | Total volume removed: 1.5 (gal/L) |
| Sample method: Disp Bailer <input checked="" type="radio"/> Ded. Tubing New Tubing Ext. Port Other: | | |
| Sample date: 9/13/16 | Sample time: 0810 | DTW at sample: 23.40 |
| Sample ID: MW-5 | Lab: McCampbell | Number of bottles: 4 |
| Analysis: TPH-G, BTEX, MTBE, TPH-D | | |
| Equipment blank ID @ | Field blank ID @ | |
| Duplicate ID: | Pre-purge DO: | Post purge DO: |
| Fe ²⁺ : | Pre-purge ORP: | Post purge ORP: |
| NAPL depth: | Volume of NAPL: | Volume removed: ml |

Appendix D

Trend Analysis Graphs







www.ghd.com

