



R0377

QUARTERLY GROUNDWATER MONITORING REPORT
April 14, 2005

Sheaff's Garage
5930 College Avenue
Oakland, California

ACHCSA Fuel Leak Case No. RO0000377

Prepared For:

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Alameda County
AUG 23 2005
Environmental Health

GGTR Project No. 7335
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Introduction

This report presents the results and findings of the April 14, 2005 groundwater monitoring and sampling activities conducted by Golden Gate Tank Removal, Inc. (GGTR) at 5930 College Avenue in Oakland, California. This was the 18th quarterly monitoring event performed at the site for the three existing monitor wells, MW1 through MW3, and the first monitoring and sampling event for the piezometer well, PW1, installed at the site in April 2005. The ACHCSA has designated the site as Fuel Leak Case No. RO000377. Figure 1, *Site Location Map*, shows the general location of the subject property in Oakland, California. The site, adjacent properties, and associated features are shown on the revised Figure 2, *Site Plan*. The groundwater elevation isocontour lines and associated gradient is shown on Figure 3, *Groundwater Elevation Potentiometric Map*. Table 1, *Historical Results of Groundwater Sample Analysis & Fluid-Level Data*, provides a tabulated summary of the laboratory results of historical groundwater sample analyses and fluid-level monitoring data at the site.

Gettler-Ryan, Inc. of Dublin, California is currently conducting a separate groundwater investigation for the former Chevron Station #20-9339 located adjacent to the north side of the subject property at 5940 College Avenue. Two groundwater monitoring wells (GR-MW1 & GR-MW2) are used to evaluate the hydrocarbon concentrations in groundwater at this site.

GGTR and Gettler-Ryan, Inc. has conducted joint monitoring and sampling activities at the associated sites on a quarterly basis since October 2000. As of the April 8, 2002 monitoring event, Gettler-Ryan has decreased their monitoring schedule to a biannual basis. Gettler-Ryan, Inc. performed their most recent joint/biannual monitoring and sampling of GR-MW1 & GR-MW2 on April 14, 2004. Figures 2 and 3 show the location of each Gettler-Ryan well relative to the subject wells at 5930 College Avenue.

Site Location and Description

The subject commercial property is located at 5930 College Avenue, along the east side of College Avenue between Harwood Street and Chabot Road in Oakland, California. The site lies approximately 0.2 mile (1,000 feet) north of Highway 24 and approximately 2.5 miles east of Interstate 80 and the San Francisco Bay. The general location of the site is shown on the attached Figure 1, *Site Location Map*.

The property is currently occupied by Stoddard Automotive, for the service and repair of automobiles. No active fuel storage or distribution system currently occupies the site. The site is approximately 5,500 square feet in area with about 75% utilized by a covered warehouse/garage and 25% used as an exterior (uncovered) storage yard. The ground surface of the entire property is paved with concrete. The elevation of the site is approximately 195 feet above Mean Sea Level (Figure 1). Figure 2 presents a *Site Plan* showing pertinent site structures and adjacent properties.

The property is relatively flat lying with the topographic relief in the immediate vicinity of the site generally directed toward the southwest (Figure 1). Regional topographic relief appears to be directed toward the west-southwest in the general direction of the San Francisco Bay. One 675-gallon gasoline UST and one 340-gallon waste oil UST were located beneath the sidewalk at the southwest corner of the site (Figure 2). The tanks were removed by GGTR in August 1996. A brief discussion of the tank removal activities is presented herein.

Site Geology and Hydrogeology

According to a Geologic Map of the San Francisco-San Jose Quadrangle published by the California Department of Conservation, the site is underlain by up to 500 feet of dissected Quaternary alluvium deposited on marine sandstone, shale and conglomerate of the Mesozoic Franciscan Complex and possibly Mesozoic, cretaceous marine sedimentary rocks of the Great Valley Sequence (thicknesses not established). Native subsurface soil encountered at the site during the additional soil and groundwater investigation activities was predominantly a moist, dark yellowish brown, clayey silt up to approximately 7 fbg, overlying a dark yellowish brown and dark greenish gray, silty clay up to approximately 15 fbg. Moist to wet, clayey silt/sand and silty clay lenses extend up to a total explored sample depth of 20 fbg. Soil observed in soil borings B10 and B11 was predominantly clayey, sandy silt.

Depth to groundwater, as measured on a quarterly basis in the three onsite monitoring wells (October 1999 through January 2005) ranged between approximately 5.22 and 13 fbg. The average depth to groundwater as measured in MW1-MW3 and PW1, during the April 2005 monitoring event was approximately 6.37 fbg, with an associated mean groundwater elevation of 190.46 feet above Mean Sea Level. The associated groundwater gradient

across the site historically has ranged between 0.005 (July 2001) and 0.032 (October 2002) foot per foot and the flow direction has fluctuated between 11° west of south (October 1999) to 71° east of north (October 2002).

The regional groundwater flow in the vicinity of the site is assumed to be towards the west-southwest, in the direction of the San Francisco Bay, and generally following the natural topographic relief of the area. *At this time, with no risk-based corrective action study performed to date at the site, shallow groundwater beneath the site is considered a potential drinking water source.*

The nearest surface water body is Claremont Creek, flowing southwest, with surface water flow ending approximately 0.9 mile northeast of the site. Creek flow then appears to continue southwest via an intermittent underground culvert and an open surface channel, and generally parallels Claremont Avenue towards its intersection with College Avenue, located approximately 0.1 mile (525 feet) north of the site (Figure 1). Lake Temescal, situated at an elevation approximately 200 feet higher than the site, is located approximately 1.1 miles east of the subject property, with effluent flow directed generally southeast.

Groundwater Sampling Field Procedures

On April 14, 2005 GGTR monitored and sampled MW1 through MW3 and PW1, in accordance with the requirements and procedures of the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) and the ACHCSA. Prior to purging and sampling, GGTR removed the well cover and locking compression cap from each well and allowed the groundwater in each well column to stabilize for approximately 20 minutes. GGTR then measured and recorded the depth to groundwater and presence of floating product using a Keck® electronic oil/water interface probe. GGTR also measured the dissolved oxygen (DO) of the groundwater (in situ) using a YSI55® DO meter to assess the occurrence of biodegradation in shallow groundwater beneath the site. DO was measured prior to purging only. Fluid levels were measured relative to the north side of the top of each well casing to the nearest 0.01 foot.

GGTR then purged a minimum of three casing volumes from each well using a direct current, centrifugal purge pump, and simultaneously monitored and recorded the pH, temperature, and specific conductivity of the purged well water. Well purge water was transferred directly to a 55-gallon, D.O.T.-approved steel drum. After the groundwater in each well recharged to approximately 80% of its original level, GGTR collected a groundwater sample by lowering a disposable, bottom-fill, polyvinyl chloride (PVC) bailer to just below the well's air-water interface. The bailer was immediately removed from the well and the groundwater was carefully decanted from the bailer into pre-cleaned, laboratory-provided sample containers. All volatile organic analysis (VOA) vials were inverted and checked to insure that no entrapped air was present. The samples were sealed with Teflon caps, properly labeled, and stored in a cooler chilled to approximately 4°C.

Water Sample Analytical Methods

On April 14, 2005, GGTR submitted the groundwater samples collected from the three monitoring wells and piezometer well under formal chain of custody command to NSL's State-certified, analytical laboratory (CA ELAP #1753) in South San Francisco, California for laboratory analysis of the following fuel constituents:

- Gasoline Range Organics (TPH-G; SW8020F)
- Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX; SW8020F)
- Methyl Tertiary-Butyl Ether (MTBE; SW8021B)
- Diesel Range Hydrocarbons (EPA Method 8015B)
- Fuel Oxygenates (GC/MS Method 8260B)

NSL completed all volatile organic analyses by April 15, 2005, which is in conformance with the 14-day required time limit for analysis. GGTR submitted all analytical data in electronic deliverable format in accordance with the State Water Resources Control Board Assembly Bill 2886 for submission to the State's GeoTracker database system. The analytical results for this event as well as those reported during historical monitoring events at the site are presented in Table 1. A copy of the Laboratory Certificates of Analysis, associated Chain of Custody Record, and Fluid-Level Monitoring and Well Purge/Sampling Data Sheets and Sampling Data Sheets are included in the Appendix.

Quality Assurance / Quality Control

Quality Assurance and Quality Control details are shown on the laboratory Certificates of Analysis in the Appendix. The laboratory reported no quality assurance or quality control problems during the laboratory analysis procedures. All samples were analyzed within specified laboratory holding times.

Groundwater Monitoring Results

The groundwater elevations measured relative to the top of well casing in MW1 through MW3 and PW1 ranged between 188.58 (MW3) and 190.77 (PW1) feet above Mean Sea Level.

To assess the historically fluctuating groundwater flow directions at the site, GGTR calculated the groundwater gradient for the April 2005 event using groundwater elevation data from both 1) MW1 through MW3 and 2) MW1, MW3, and PW1, to help determine whether groundwater in MW2 had presumably not stabilized prior to final monitoring, having caused erroneous water level readings. Also, both sets of data will be calculated for the next two monitoring events and compared to regional groundwater flow direction data (west-southwest) to assess potential consistency over a period of three to four consecutive quarters. The gradient and flow direction for the two sets of data measured during the April 2005 event were approximately 0.016 ft/ft, directed 76° east of south, and 0.11 ft/ft 13° east of south, respectively. The associated groundwater gradient data calculated for the

April 14, 2005 monitoring event is shown in Figure 3, *Groundwater Elevation Potentiometric Map*.

The table shown on the following page lists the historical data for MW1 through MW3, for mean groundwater elevation, flow direction, and groundwater slope for the site. The groundwater elevations prior to April 14, 2001 are referenced to an arbitrary site-specific datum point (MW1; north side of top of well casing) with an assumed elevation of 50 feet. This arbitrary datum point is not referenced to Mean Sea Level. Figure 4 presents a *Rose Diagram* showing the historical hydraulic gradients (magnitude and direction) to date across the site. The current gradient data, incorporating that of PW1, is shown in bold type.

Table - Mean Groundwater Elevation, Flow Direction, and Gradient

Measurement Date	Mean Groundwater Elevation (feet)	Groundwater Flow Direction	Gradient (feet / 100 feet)
10/07/99	39.87	11° west of south	0.67 foot / 100 feet
01/26/00	43.1	23° west of north	9.12 feet / 100 feet
10/25/00	39.96	40° east of north	0.64 foot / 100 feet
04/25/01	188.6	55° west of north	0.69 foot / 100 feet
07/10/01	186.26	4° east of north	0.5 foot / 100 feet
10/08/01	184.99	48° east of north	1.6 feet / 100 feet
01/07/02	191.63	52° west of south	2.3 feet / 100 feet
04/08/02	188.94	43° east of south	0.6 foot / 100 feet
07/09/02	186.63	51° west of north	0.7 foot / 100 feet
10/23/02	184.50	71° east of north	3.2 foot / 100 feet
10/15/03	185.14	28° east of north	1.0 foot / 100 feet
02/02/04	188.47	18° east of south	0.5 foot / 100 feet
04/23/04	189.00	77° east of south	0.5 foot / 100 feet
07/19/04	186.97	51° west of north	0.1 foot / 100 feet
10/22/04	186.49	82° west of north	2.9 foot / 100 feet
01/21/05	190.36	16° west of south	1.25 foot / 100 feet
04/14/05	190.01	13° east of south 76° east of south	1.10 foot / 100 feet 1.60 foot / 100 feet

Results of Groundwater Sampling and Laboratory Analysis

The table shown on the following page summarizes the laboratory analytical results of groundwater samples collected during the April 14, 2005 monitoring event. Documentation of the well purging and sampling activities is contained in the Field Data Sheets of the Appendix.

April 14, 2005 Groundwater Sampling Results

Well ID	Sample ID	TPH-G (ug/L)	TPH-D (mg/L)	BTEX (ug/L)	MTBE (ug/L)	VOC/OXY (ug/L)
MW1	7335-MW1	278,000	--	14,700 / 25,300 / 10,800 / 73,500	271*	271 ug/L n-Propylbenzene 525 ug/L 1,3,5-Trimethylbenzene 662 ug/L Napthalene
MW2	7335-MW2	36,900	--	5,980 / 1,030 / 2,890 / 9,070	161*	239 ug/L n-Propylbenzene 1,500 ug/L 1,3,5-Trimethylbenzene 697 ug/L Napthalene
MW3	7335-MW3	2,420	--	111 / 11.4 / 139 / 265	ND*	88 ug/L n-Propylbenzene 96 ug/L 1,3,5-Trimethylbenzene 43 ug/L Napthalene
PW1	7335-PW-1	3360	2.12 **	62.8 / 6.7 / 79.5 / 317	ND	12 ug/l cis-1,2-Dichloroethene 3.3 ug/l Trichloroethene 84.9 Tetrachloroethene 11 ug/l Isopropylbenzene 27 ug/l n-Propylbenzene 110 ug/l 1,3,5-Trimethylbenzene 257 1,2,4-Trimethylbenzene 22 ug/l b-Butlybenzene 56 ug/l Napthalene

Notes:

- TPH-G - Total Petroleum Hydrocarbons as Gasoline (EPA Methods 5030/8020F)
- BTEX - Benzene / Toluene / Ethylbenzene / Xylenes (EPA Methods 5030/8020F)
- MTBE - Methyl Tertiary Butyl Ether (EPA Method 5030/8020F)
- VOC - Volatile Organic Compounds (EPA Method 8260; Total Concentration)
- OXY - Fuel Oxygenates (EPA Method 8260)
- ug/L - micrograms per liter (equivalent to parts per billion - ppb)
- ND - not detected above laboratory reporting limit (See QC/QA, Lab Report)
- NA - not analyzed during this event
- * - MTBE concentration as confirmed by VOC and/or Fuel Oxygenate analysis
- ** - Does not match typical diesel pattern

As requested by the ACHCSA in their letter dated June 3, 2004, groundwater monitoring should continue at the site on a quarterly basis. All quarterly groundwater samples should be analyzed for TPH-G, BTEX, and MTBE by EPA Methods 8015M/8021B, and VOCs by EPA Method 8260. Monitoring of DO and ORP should be continued to further evaluate the biodegradation potential in the shallow groundwater beneath the site. Third Quarter 2005 monitoring activities were conducted at the site on July 26, 2005.

GeoTracker AB2886 EDF Upload

In general accordance with State Assembly Bill 2886, GGTR uploaded the fluid-level monitoring data associated with the April 14, 2004 event in electronic deliverable format to the State Water Resources Control Board's GeoTracker Database System. The GeoTracker Upload Confirmation Number is **2514785587**. An AB2886 Electronic Delivery confirmation report copy (GEO_Well) corresponding to submittal title Fluid-Level Monitoring Data (MW1-MW3, PW1) is included in the Appendix.

Due to the sudden closure of North State Labs, GGTR was not able to upload all groundwater sample analytical results associated with the April 14, 2004 event in electronic deliverable format to the State GeoTracker Database System. A confirmation report copy corresponding to Lab Number/Submittal Title 05-0541: 04/14/05 GW Analytical Data (MW1-MW3, PW1) is pending.

Waste Management

The well purge and equipment wash and rinse water generated during the April 2005 monitoring event (@ 29 gallons) was transferred directly to a D.O.T.-approved, 55-gallon drum, appropriately labeled and stored onsite in a secure area, to be used for future groundwater monitoring events.

Environmental Site History & Chronology

In August 1996, GGTR removed two underground storage tanks (USTs) and associated fuel dispenser from the site at the locations shown in Figure 2. The following table presents a summary of the tank designations, size, type of construction and contents:

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

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

Between May 1998 and October 1999, as requested by the ACHCSA, GGTR performed a preliminary subsurface soil boring investigation at the subject property and subsequently installed three groundwater monitor wells in the vicinity of the former UST cavity. Soil borings B1 through B3 were advanced immediately south, east, and west, respectively, of the former UST cavity. Following review and interpretation of all field and soil sample analytical data collected during these activities, additional soil borings (B4 through B6) were then advanced at the site to further assess the extent of contamination in soil and the

potential impact to groundwater. These borings were converted to 2-inch-diameter groundwater monitoring wells, MW1 through MW3

In collaboration with Gettler-Ryan, Inc. of Dublin, California, which is conducting a separate groundwater investigation adjacent to the subject property (5940 College Avenue; Former Chevron Station), GGTR has jointly monitored and sampled each well on a quarterly basis between January 2000 and April 2002. The locations of the subject monitor wells as well as Gettler-Ryan's monitoring wells are shown on Figure 2.

Based on the residual elevated concentrations of gasoline-range hydrocarbons measured in the groundwater samples collected during the April 2001 quarterly monitoring activities, the ACHCSA, in a letter dated July 9, 2001, requested a work plan to assess whether any additional contaminant sources may potentially exist onsite that may be contributing to the elevated hydrocarbon concentration in groundwater. GGTR submitted the work plan on December 19, 2001, which was subsequently approved by the ACHCSA in a letter dated January 3, 2002. In August, October, and November 2002, GGTR implemented the approved work plan activities, details of which are presented in GGTR's June 10, 2003 *Report of Additional Soil and Groundwater Investigation*.

Based on review of GGTR's June 2003 report, the ACHCSA, in their letter dated September 8, 2003 requested a work plan addressing additional source and site characterization of contaminants in soil and groundwater at the subject property. GGTR submitted their Work Plan for Additional Site Characterization on December 29, 2003, which was conditionally approved by the ACHCSA in their most recent letter dated June 3, 2004. On September 30, 2004, GGTR submitted their *Additional Site Characterization Work Plan Addendum* for review. Between October 15, 2003 and October 2004, GGTR conducted quarterly groundwater monitoring and sampling activities at the site and submitted their associated Groundwater Monitoring Reports to the ACHCSA.

The following chronological list of activities shows the significant UST removal and investigative activities performed at the site to date:

08/06/96	Underground storage tanks 1 and 2 were removed and samples recovered
08/15/96	A work plan was submitted by GGTR for over excavation and disposal of gasoline-contaminated soil surrounding the UST
09/30/96	Over-excavation of gasoline-contaminated soil performed
10/01/96	Last of additional excavation soil disposed of at a Class II facility
10/11/96	TANK REMOVAL REPORT published by GGTR
12/30/96	ACHSA submitted letter requiring soil and groundwater investigation
03/10/97	GGTR authorized to prepare a work plan for additional investigation
04/01/97	GGTR submitted work plan for a Soil and Groundwater Investigation
04/21/97	ACHSA submitted letter authorizing work plan
05/06/98	GGTR drills borings B1 through B3
05/20/98	GGTR drills borings B4 (Monitoring Well MW1)

05/27/98 GGTR develops monitoring well MW1
06/01/98 GGTR measures, purges and samples monitoring well MW1
06/17/98 GGTR submitted Soil and Groundwater Investigation Report
07/21/98 GGTR submitted Work Plan Addendum for installation of two additional
groundwater monitoring wells
09/10/98 GGTR measures, purges and samples monitoring well MW1 then submits a
groundwater monitoring report
10/02/99 GGTR drills two borings (B5 and B6) and converts them to groundwater
monitoring Wells (MW2 and MW3)
10/04/99 GGTR develops monitoring wells MW2 and MW3
10/07/99 GGTR surveys monitoring wells MW2 / MW3; measures, purges and samples
monitoring wells MW1, MW2 and MW3 then submits a groundwater monitoring
report
10/22/99 GGTR submitted Summary Report
11/24/99 HCS submitted letter requiring quarterly monitoring and setting parameters for
January 2000 analyses
01/26/00 GGTR measures, purges and samples monitoring wells MW1, MW2 and MW3
then submits a groundwater monitoring report
10/25/00 GGTR and Gettler-Ryan, Inc. perform joint groundwater monitoring activities;
GGTR measures, purges and samples monitoring wells MW1, MW2 and MW3
then submits a groundwater monitoring report
04/25/01 GGTR and Gettler-Ryan, Inc. perform joint groundwater monitoring activities;
GGTR surveys, measures and samples monitoring wells MW1, MW2 and MW3
then submits a groundwater monitoring report
07/10/01 GGTR and Gettler-Ryan, Inc. perform joint groundwater monitoring activities;
GGTR measures and samples monitoring wells MW1, MW2 and MW3 then
submits a groundwater monitoring report
10/08/01 GGTR and Gettler-Ryan, Inc. perform joint groundwater monitoring activities;
GGTR monitors and samples MW1, MW2 and MW3.
11/28/01 GGTR submits October 2001 Groundwater Monitoring Report to the ACHCSA
12/19/01 GGTR submits Work Plan for Additional Soil & Groundwater Investigation to the
ACHCSA
01/03/02 ACHCSA submits work plan implementation request letter.
01/07/02 GGTR monitors and samples MW1, MW2 and MW3.
01/13/02 Gettler-Ryan, Inc. monitors and samples GR-MW1 & GR-MW2.
02/11/02 GGTR submits January 7, 2001 Groundwater Monitoring Report to the ACHCSA
04/08/02 GGTR monitors and samples MW1, MW2 and MW3.
04/08/02 Gettler-Ryan, Inc. monitors and samples GR-MW1 & GR-MW2.
05/15/02 GGTR submits April 8, 2002 Groundwater Monitoring Report to the ACHCSA
07/09/02 GGTR monitors and samples MW1, MW2 and MW3; Gettler-Ryan, Inc. currently
on bi-annual sampling basis
08/19/02 GGTR submits July 9, 2002 Groundwater Monitoring Report to the ACHCSA
08/24/02-
08/30/02 GGTR conducts December 2001 work plan subsurface fuel piping removal and site
restoration activities.
10/15/02 Gettler-Ryan, Inc. monitors and samples GR-MW1 & GR-MW2.
10/23/02 GGTR monitors and samples MW1, MW2 and MW3.

10/30/02 &
11/01/02 GGTR conducts December 2001 work plan additional soil boring activities
12/30/02 GGTR submits October 23, 2002 Groundwater Monitoring Report to the ACHCSA
06/10/03 GGTR submits Report of Additional Soil and Groundwater Investigation to the ACHCSA
09/08/03 ACHCSA submits Report Review Letter
10/15/03 GGTR conducts 3rd Quarter 2003 Monitoring & Sampling (MW1-MW3)
10/31/03 GGTR submits October 15, 2003 Groundwater Monitoring Report to the ACHCSA
12/29/03 GGTR submits Work Plan for Additional Site Characterization to the ACHCSA

02/02/04 GGTR conducts 1st Quarter 2004 Monitoring & Sampling (MW1-MW3)
03/29/04 GGTR submits February 2, 2004 Groundwater Monitoring Report to the ACHCSA
04/23/04 GGTR conducts 2nd Quarter 2004 Monitoring & Sampling (MW1-MW3)
08/19/04 GGTR submits April 23, 2004 Groundwater Monitoring Report to the ACHCSA
07/19/04 GGTR conducts 3rd Quarter 2004 Monitoring and Sampling (MW1-MW3)
09/30/04 GGTR submits Additional Site Characterization Work Plan Addendum to the ACHCSA

10/22/04 GGTR conducts 4th Quarter 2004 Monitoring and Sampling (MW1-MW3)
11/11/04 GGTR submits July 19, 2004 Groundwater Monitoring Report to the ACHCSA
01/20/05 GGTR submits October 22, 2004 Groundwater Monitoring Report to the ACHCSA
01/21/05 GGTR conducts 1st Quarter 2005 Groundwater Monitoring and Sampling (MW1-MW3)

03/17/05 GGTR submits April 14 2005 Groundwater Monitoring Report to the ACHCSA
3/26/05 GGTR submits Additional Site Characterization Work Plan Addendum to the ACHCSA

04/05 GGTR conducts Additional Site Characterization Activities
04/14/05 GGTR conducts 2nd Quarter 2005 Groundwater Monitoring and Sampling (MW1-MW3, and PW1))
07/24/05 GGTR submits April 14 2005 Groundwater Monitoring Report to the ACHCSA

Report Distribution

A copy of this quarterly groundwater monitoring report be submitted to the following site representatives:

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

Attention: Mr. Don Hwang

(1 Copy; Unbound)

(1 Electronic Copy via GEOTRACKER)

Mr. Brian Sheaff
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(2 Copies; Bound)

TABLE 1
Historical Results of Groundwater Sample Analysis & Fluid-Level Data
5930 College Avenue, Oakland, CA

Well ID	Sample Date	Casing Elevation (Feet/MSL)	DTW (Feet/TOC)	Water Elevation (Feet/MSL)	Product/Odor/Sheen	TPH-G (ug/L)	TEPH (ug/L)	Total VOCs (ug/L)	MTBE (ug/L)	B/T/E/X (ug/L)
MW1	06/01/98	50.00 ¹	4.81	45.19	slight sheen	160,000	ND	--	1,900	28,000 / 21,000 / 3,800 / 21,000
	09/10/98	50.00 ¹	7.50	42.50	odor	290,000	ND	--	440	<50 / 25,000 / 7,100 / 32,000
	10/07/99	50.00 ¹	10.04	39.96	odor	85,000	ND	--	1,100	20,000 / 13,000 / 3,800 / 17,000
	01/26/00	50.00 ¹	8.26	41.74	slight sheen	130,000	--	--	470	25,000 / 18,000 / 4,500 / 22,000
	10/25/00	50.00 ¹	10.10	39.90	odor	130,000	--	ND	1,300	23,000 / 12,000 / 3,900 / 18,000
	02/02/01	50.00 ¹	9.61	40.39	odor	128,000	--	--	780	19,000 / 11,000 / 3,800 / 18,000
	04/25/01	195.90	7.39	188.51	odor	120,000	--	--	900	21,000 / 13,000 / 390 / 18,000
	07/10/01	195.90	9.72	186.18	odor	79,000	--	--	660	15,000 / 7,800 / 3000 / 15,000
	10/08/01	195.90	10.88	185.02	sheen/odor	112,000	--	--	374	25,300 / 11,800 / 4,280 / 20,600
	01/07/02	195.90	4.34	191.56	odor	96,100	--	--	596 ³	21,100 / 13,500 / 4,160 / 21,900
	04/08/02	195.90	6.84	189.06	slight odor	111,000	--	1,040 ²	814 (679 ³)	21,200 / 13,400 / 4,230 / 21,000
	07/09/02	195.90	9.40	186.50	slight odor	110,000	--	573 ⁴	746 (570 ³)	20,300 / 13,300 / 4,060 / 19,800
	10/23/02	195.90	11.04	184.86	none	54,100	--	41,482 ⁵	1,010 (1,080 ³)	10,800 / 3,870 / 2,320 / 9,440
	10/15/03	195.90	10.80	185.10	none	90,700	--	47,837 ⁸	534 (724 ³)	17,800 / 4,740 / 3,150 / 13,900
	02/02/04	195.90	7.35	188.55	none	108,000	--	50,118 ¹²	216 (194 ³)	14,200 / 7,420 / 3,450 / 19,800
	04/23/04	195.90	6.83	189.07	slight odor	49,200	--	28,750 ¹⁵	85 (114 ³)	7,910 / 1,480 / 1,810 / 10,100
	07/19/04	195.90	8.95	186.95	odor	63,900	--	32,739 ¹⁸	373 (303 ³)	7,260 / 2,270 / 2,510 / 10,100
10/22/04	195.90	10.15	185.75	None	80,700	--	34,550 ²¹	493 (296 ³)	13,900 / 1,670 / 3,550 / 15,200	
01/21/05	195.90	5.45	190.45	odor	278,000	--	46,142 ²⁴	271 (174 ³)	14,700 / 25,300 / 10,800 / 73,500	
04/14/05	195.90	5.3	190.60	Odor and sheen	116,000	--	63,650 ²⁷	366 (410 ³)	15,100 / 7,080 / 4,220 / 20,700	
Laboratory Reporting Limit						50	5,000	≤50	0.5 (1)	0.5 / 0.5 / 0.5 / 1.0
CRWQCB MSWQO (MCL)						NC	NC	Varies	5 ¹¹	1 / 150 / 700 / 1,750
CRWQCB July 2003 ESL						100/500	100/640	Varies	5/1,800	1.0 (46) / 40 (130) / 30 (290) / 13 (13)

Table Notes Following

TABLE 1 (Cont'd)
Historical Results of Groundwater Sample Analysis & Fluid-Level Data
5930 College Avenue, Oakland, CA

Well ID	Sample Date	Casing Elevation (Feet/MSL)	DTW (Feet/TOC)	Water Elevation (Feet/MSL)	Product/Odor/Sheen	TPH-G (ug/L)	TEPH (ug/L)	Total VOCs (ug/L)	MTBE (ug/L)	B/T/E/X (ug/L)
MW2	10/07/99	51.42 ¹	11.49	39.93	slight/odor	18,000	ND	--	490	3,000 / 1,700 / 1,000 / 3,900
	01/26/00	51.42 ¹	7.85	43.57	none	42,000	--	--	560	9,300 / 2,200 / 2,300 / 7,700
	10/25/00	51.42 ¹	11.57	39.85	slight/odor	31,000	--	ND	500	5,500 / 370 / 1,700 / 2,600
	02/02/01	51.42 ¹	10.77	40.65	odor	36,000	--	--	400	4,300 / 530 / 1,800 / 4,500
	04/25/01	197.28	8.52	188.76	odor	56,000	--	--	460	6,700 / 1700 / 2,600 / 8,200
	07/10/01	197.28	11.05	186.23	odor	39,000	--	--	180	6,200 / 730 / 2,300 / 6,100
	10/08/01	197.28	12.79	184.49	sheen/odor	40,700	--	--	6,460	6,310 / 399 / 2,100 / 5,320
	01/07/02	197.28	4.92	192.36	odor	59,600	--	--	366 ³	10,300 / 3,250 / 4,180 / 14,400
	04/08/02	197.28	8.40	188.88	slight odor	66,700	--	--	583 ³	10,200 / 2,670 / 3,840 / 13,200
	07/09/02	197.28	10.55	186.73	slight odor	37,100	--	298	303 (298 ³)	5,340 / 890 / 2,110 / 6,920
	10/23/02	197.28	13.85	183.43	none	13,300	--	8,686 ⁶	322 (360 ³)	2,420 / 216 / 922 / 1,470
	10/15/03	197.28	12.38	184.90	none	11,300	--	6,642 ⁹	264 (322 ³)	2,660 / 51 / 1,180 / 1,220
	02/02/04	197.28	8.80	188.48	none	21,700	--	8,020 ¹³	168 (200 ³)	2,130 / 51 / 1,030 / 2,060
	04/23/04	197.28	8.40	188.88	Slight odor	30,400	--	13,921 ¹⁶	112 (203 ³)	3,570 / 322 / 1,620 / 4,140
	07/19/04	197.28	10.30	186.98	odor	28,300	--	10,284 ¹⁹	283 (373 ³)	2,540 / 239 / 1,320 / 2,300
10/22/04	197.28	10.25	187.03	Moderate odor	13,500	--	4,548 ²²	273 (229 ³)	1,790 / 54 / 892 / 915	
1/21/05	197.28	6.65	190.63	Moderate odor	27,8000	--	17746 ²⁵	161 (163 ³)	5980 / 1030 / 2890 / 9070	
4/14/05	197.28	8.7	188.58	none	46100	--	24398 ²⁸	155 (150 ³)	5,170 / 787 / 2,530 / 6,010	
Laboratory Reporting Limit						50	5,000	<50	0.5 (1)	0.5 / 0.5 / 0.5 / 1.0
CRWQCB MSWQO (MCL)						NC	NC	Varies	5 ¹¹	1 / 150 / 700 / 1,750
CRWQCB July 2003 ESL						100/500	100/640	Varies	5/1,800	1.0 (46) / 40 (130) / 30 (290) / 13 (13)

Table Notes Following

TABLE 1 (Cont'd)
Historical Results of Groundwater Sample Analysis & Fluid-Level Data
5930 College Avenue, Oakland, CA

Well ID	Sample Date	TOC Elevation (Feet/MSL)	DTW (Feet/TOC)	Water Elevation (Feet/MSL)	Product/Odor/Sheen	TPH-G (ug/L)	TEPH (ug/L)	Total VOCs (ug/L)	MTBE (ug/L)	B/T/E/X (ug/L)
MW3	10/07/99	49.39 ¹	9.67	39.72	none	6,600	ND	--	390	310 / 110 / 430 / 1,000
	01/26/00	49.39 ¹	5.40	43.99	none	3,300	--	--	40	110 / 8 / 100 / 32
	10/25/00	49.39 ¹	9.24	40.15	slight odor	4,500	--	ND	ND	100 / 2 / 120 / 130
	02/02/01	49.39 ¹	8.73	40.66	slight odor	2,900	--	--	35	35 / 3 / 160 / 298
	04/25/01	195.22	6.61	188.61	slight odor	8,400	--	--	56	260 / 33 / 290 / 510
	07/10/01	195.22	8.85	186.37	slight odor	12,000	--	--	35	39 / 10 / 690 / 1600
	10/08/01	195.22	9.75	185.47	sheen/odor	4,913	--	--	52	108 / 4 / 99 / 133
	01/07/02	195.22	4.25	190.97	sheen/odor	7,260	--	--	81.7 ³	723 / 138 / 492 / 887
	04/08/02	195.22	6.33	188.89	odor	11,700	--	--	ND ³	540 / 108 / 706 / 1,710
	07/09/02	195.22	8.56	186.66	odor	2,320	--	20 (MTBE)	28.3 (20 ³)	37.1 / 4.7 / 98.5 / 187
	10/23/02	195.22	10.02	185.20	Sheen/odor	2,830	--	865 ⁷	ND (ND ³)	46.8 / 4.7 / 43.6 / 65.5
	10/15/03	195.22	9.80	185.42	Sheen/odor	3,040	--	436 ¹⁰	ND (ND ³)	91.3 / 8.4 / 69.9 / 148
	02/02/04	195.22	6.85	188.37	Sheen/odor	5,140	--	769.5 ¹⁴	ND (ND ³)	126 / 8.7 / 134 / 238
	04/23/04	195.22	6.17	189.05	none	7,210	--	2,807.9 ¹⁷	ND (ND ³)	227 / 39.5 / 448 / 879
	07/19/04	195.22	8.25	186.97	Slight odor	9,860	--	568.2 ²⁰	ND (ND ³)	20.4 / 3.2 / 30.6 / 117
10/22/04	195.22	9.25	185.97	None	7,420	--	1,901 ²³	96 (21 ³)	152 / 12.8 / 267 / 480	
1/21/05	195.22	5.22	190.00	Slight odor	2,420	--	809.5 ²⁶	ND (ND ³)	111 / 11.4 / 139 / 265	
4/14/05	195.22	6.64	188.58	Odor / sheen	5130	--	2107 ²⁹	54 (41.4 ³)	357 / 19.4 / 287 / 510	
TB	02/02/04			NA		--	--	--	--	ND / ND / ND / ND
	04/23/04			NA		--	--	--	--	ND / ND / ND / ND
	07/19/04			NA		--	--	--	--	ND / ND / ND / ND
	10/22/04			NA		--	--	--	--	ND / ND / ND / ND
Laboratory Reporting Limit						50	5,000	≤50	0.5 (1)	0.5 / 0.5 / 0.5 / 1.0
CRWQCB MSWQO (MCL)						NC	NC	Varies	5 ¹¹	1 / 150 / 700 / 1,750
CRWQCB July 2003 ESL						100/500	100/640	Varies	5/1,800	1.0 (46) / 40 (130) / 30 (290) / 13 (13)

TABLE NOTES ON FOLLOWING PAGE

TABLE 1 (Cont'd)
Historical Results of Groundwater Sample Analysis & Fluid-Level Data
5930 College Avenue, Oakland, CA

Well ID	Sample Date	TOC Elevation (Feet/MSL)	DTW (Feet/TOC)	Water Elevation (Feet/MSL)	Product/Odor/Sheen	TPH-G (ug/L)	TEPH (ug/L)	Total VOCs (ug/L)	MTBE (ug/L)	B/T/E/X (ug/L)	Oxygenates (ug/L)	TPH-D (mg/L)
PW1	4/14/05	197.17	6.4	190.77	none	3360	--	968 ³⁰	ND (ND ³)	62.8 / 6.7 / 79.5 / 317	ND	2.12

TABLE 1 NOTES: TOC - top of well casing (north side)
DTW - depth to water relative to TOC
ug/L - micrograms per liter (equivalent to parts per billion)
TPH-G - Total Petroleum Hydrocarbons as Gasoline (SW8020F)
TEPH - Total Extractable Petroleum Hydrocarbons [EPA Methods 5030/8015M & EPA 1664 (B10 Only)]
Total VOCs - Total Volatile Organic Compounds by EPA Method 8260
MTBE - Methyl Tertiary Butyl Ether (EPA Method 8260)
BTEX - Benzene / Toluene / Ethylbenzene / Total Xylenes (SW8020F)
MSL - Mean Sea Level; TB = Trip Blank (7335-TB)
ND - not detected above laboratory reporting limit
NC - no criteria established; NA - not applicable
-- - not analyzed for this constituent
fbg - feet below grade surface

- ¹ - Arbitrary datum point with assumed elevation of 50 feet used prior to MSL survey on April 26, 2001
- ² - Fuel oxygenate concentrations reported as 1,2-Dichloroethane (361 ug/l) and MTBE (679 ug/l)
- ³ - Concentration confirmed by EPA Method 8260 (analysis of VOCs of Fuel Oxygenates)
- ⁴ - Fuel oxygenate concentrations reported as 1,2-Dichloroethane (3 ug/l) and MTBE (570 ug/l)
- ⁵ - VOC concentrations reported as 1,080 ug/l MTBE, 14,500 ug/l benzene, 5,370 ug/l toluene, 3,360 ug/l ethylbenzene, 13,700 ug/l total xylenes, 96 ug/l isopropylbenzene, 292 ug/l n-propylbenzene, 1,730 ug/l 1,3,5-trimethylbenzene, 500 ug/l 1,2,4-trimethylbenzene, 15 ug/l sec-butylbenzene, 61 ug/l n-butylbenzene, and 778 ug/l naphthalene
- ⁶ - VOC concentrations reported as 360 ug/l MTBE, 3,430 ug/l benzene, 319 ug/l toluene, 1,210 ug/l ethylbenzene, 1,960 ug/l total xylenes, 59 ug/l isopropylbenzene, 148 ug/l n-propylbenzene, 631 ug/l 1,3,5-trimethylbenzene, 153 ug/l 1,2,4-trimethylbenzene, 14 ug/l sec-butylbenzene, 43 ug/l n-butylbenzene, and 359 ug/l naphthalene
- ⁷ - VOC concentrations reported as 9 ug/l chloroform, 74 ug/l benzene, 9 ug/l toluene, 72 ug/l ethylbenzene, 109 ug/l total xylenes, 42 ug/l isopropylbenzene, 112 ug/l n-propylbenzene, 216 ug/l 1,3,5-trimethylbenzene, 100 ug/l 1,2,4-trimethylbenzene, 20 ug/l sec-butylbenzene, 59 ug/l n-butylbenzene, and 43 ug/l naphthalene
- ⁸ - VOC concentrations reported as 724 ug/l MTBE, 19,300 ug/l benzene, 5,070 ug/l toluene, 3,230 ug/l ethylbenzene, 15,470 ug/l total xylenes, 288 ug/l n-propylbenzene, 565 ug/l 1,3,5-trimethylbenzene, 2,150 ug/l 1,2,4-trimethylbenzene, 1,040 ug/l naphthalene, and ND<50 ug/L 1,2-dibromoethane (EDB) & ND<100 ug/L 1,2-dichloroethane (EDC)

TABLE 1 (Cont'd)
Historical Results of Groundwater Sample Analysis & Fluid-Level Data
5930 College Avenue, Oakland, CA

TABLE 1 NOTES:

- ⁹ - VOC concentrations reported as 322 ug/l MTBE, 2,580 ug/l benzene, 53 ug/l toluene, 1,190 ug/l ethylbenzene, 1,045 ug/l total xylenes, 75 ug/l isopropylbenzene, 210 ug/l n-propylbenzene, 140 ug/l 1,3,5-trimethylbenzene, 529 ug/l 1,2,4-trimethylbenzene, 56 ug/l n-butylbenzene, 442 ug/l naphthalene, and ND<5 ug/L 1,2-dibromoethane (EDB) & ND<10 ug/L 1,2-dichloroethane (EDC)
- ¹⁰ - VOC concentrations reported as 79 ug/l benzene, 8.3 ug/l toluene, 65 ug/l ethylbenzene, 118.6 ug/l total xylenes, 21 ug/l isopropylbenzene, 62 ug/l n-propylbenzene, 11 ug/l 1,3,5-trimethylbenzene, 30 ug/l 1,2,4-trimethylbenzene, 13 ug/l n-butylbenzene, 28 ug/l naphthalene, and ND<0.5 ug/L 1,2-dibromoethane (EDB) & ND<1 ug/L 1,2-dichloroethane (EDC)
- ¹¹ - Secondary Maximum Contaminant Level established by CRWQCB
- ¹² - VOC concentrations reported as 194 ug/l MTBE, 14,700 ug/l benzene, 7,620 ug/l toluene, 3,940 ug/l ethylbenzene, 18,710 ug/l total xylenes, 47 ug/l 4-methyl-2-pentanone, 116 ug/l isopropylbenzene, 342 ug/l n-propylbenzene, 701 ug/l 1,3,5-trimethylbenzene, 2,690 ug/l 1,2,4-trimethylbenzene, 66 ug/l n-butylbenzene, 992 ug/l naphthalene, and ND<50 ug/L 1,2-dibromoethane (EDB) & ND<100 ug/L 1,2-dichloroethane (EDC)
- ¹³ - VOC concentrations reported as 200 ug/l MTBE, 2,370 ug/l benzene, 92 ug/l toluene, 1,200 ug/l ethylbenzene, 2,024 ug/l total xylenes, 73 ug/l isopropylbenzene, 186 ug/l n-propylbenzene, 306 ug/l 1,3,5-trimethylbenzene, 1,090 ug/l 1,2,4-trimethylbenzene, 66 ug/l n-butylbenzene, 413 ug/l naphthalene, and ND<5 ug/L 1,2-dibromoethane (EDB) & ND<10 ug/L 1,2-dichloroethane (EDC)
- ¹⁴ - VOC concentrations reported as 110 ug/l benzene, 6.4 ug/l toluene, 148 ug/l ethylbenzene, 238.1 ug/l total xylenes, 23 ug/l isopropylbenzene, 83 ug/l n-propylbenzene, 22 ug/l 1,3,5-trimethylbenzene, 68 ug/l 1,2,4-trimethylbenzene, 38 ug/l n-butylbenzene, 33 ug/l naphthalene, and ND<0.5 ug/L 1,2-dibromoethane (EDB) & ND<1 ug/L 1,2-dichloroethane (EDC)
- ¹⁵ - VOC concentrations reported as 1,210 ug/l methylene chloride, 114 ug/l MTBE, 10,300 ug/l benzene, 1,960 ug/l toluene, 2,220 ug/l ethylbenzene, 10,230 ug/l total xylenes, 180 ug/l n-propylbenzene, 417 ug/l 1,3,5-trimethylbenzene, 1,560 ug/l 1,2,4-trimethylbenzene, 559 ug/l naphthalene, and ND<50 ug/L 1,2-dibromoethane (EDB) & ND<100 ug/L 1,2-dichloroethane (EDC)
- ¹⁶ - VOC concentrations reported as 203 ug/l MTBE, 4,570 ug/l benzene, 511 ug/l toluene, 1,760 ug/l ethylbenzene, 4,055 ug/l total xylenes, 215 ug/l isopropylbenzene, 469 ug/l 1,3,5-trimethylbenzene, 1,570 ug/l 1,2,4-trimethylbenzene, 568 ug/l naphthalene, and ND<5 ug/L 1,2-dibromoethane (EDB) & ND<10 ug/L 1,2-dichloroethane (EDC)
- ¹⁷ - VOC concentrations reported as 341 ug/l benzene, 42.9 ug/l toluene, 547 ug/l ethylbenzene, 1,185 ug/l total xylenes, 29 ug/l isopropylbenzene, 82 ug/l n-propylbenzene, 60 ug/l 1,3,5-trimethylbenzene, 337 ug/l 1,2,4-trimethylbenzene, 24 ug/l n-butylbenzene, 160 ug/l naphthalene, and ND<0.5 ug/L 1,2-dibromoethane (EDB) & ND<1 ug/L 1,2-dichloroethane (EDC)
- ¹⁸ - VOC concentrations reported as 303 ug/l MTBE, 11200 ug/l benzene, 2440 ug/l toluene, 2730 ug/l ethylbenzene, 12540 ug/l total xylenes, 239 ug/l n-propylbenzene, 89 ug/l isopropylbenzene, 507 ug/l 1,3,5-trimethylbenzene, 1890 ug/l 1,2,4-trimethylbenzene, and 801 ug/l naphthalene.
- ¹⁹ - VOC concentrations reported as 373 ug/l MTBE, 3670 ug/l benzene, 207 ug/l toluene, 1450 ug/l ethylbenzene, 2403 ug/l total xylenes, 73 ug/l isopropylbenzene, 316 ug/l 1,3,5-trimethylbenzene, 1070 ug/l 1,2,4-trimethylbenzene, 475 ug/l naphthalene, 173 ug/l n-propylbenzene, 475 ug/l naphthalene, and 72 ug/l n-butylbenzene.
- ²⁰ - VOC concentrations reported as 39.3 ug/l benzene, 3.6 ug/l toluene, 31 ug/l ethylbenzene, 59.3ug/l total xylenes, 27 ug/l isopropylbenzene, 2 ug/l 1,1,2,2-tetrachloroethane, 105 ug/l n-propylbenzene, 48 ug/l 1,3,5-trimethylbenzene, 204 ug/l 1,2,4-trimethylbenzene, 34 ug/l n-butylbenzene, 16 ug/l naphthalene, and ND<0.5 ug/L 1,2-dibromoethane (EDB) & ND<1 ug/L 1,2-dichloroethane (EDC)
- ²¹ - VOC concentrations reported as 296 ug/l MTBE, 15600 ug/l benzene, 1440 ug/l toluene, 3020 ug/l ethylbenzene, 12020 ug/l total xylenes, 264 ug/l n-propylbenzene, 520 ug/l 1,3,5-trimethylbenzene, 1990 ug/l 1,2,4-trimethylbenzene, and 700 ug/l naphthalene.
- ²² - VOC concentrations reported as 229 ug/l MTBE, 2010 ug/l benzene, 54 ug/l toluene, 799 ug/l ethylbenzene, 667 ug/l total xylenes, 49 ug/l isopropylbenzene, 80 ug/l 1,3,5-trimethylbenzene, 257 ug/l 1,2,4-trimethylbenzene, 227 ug/l naphthalene, 132 ug/l n-propylbenzene, and 44 ug/l n-butylbenzene.

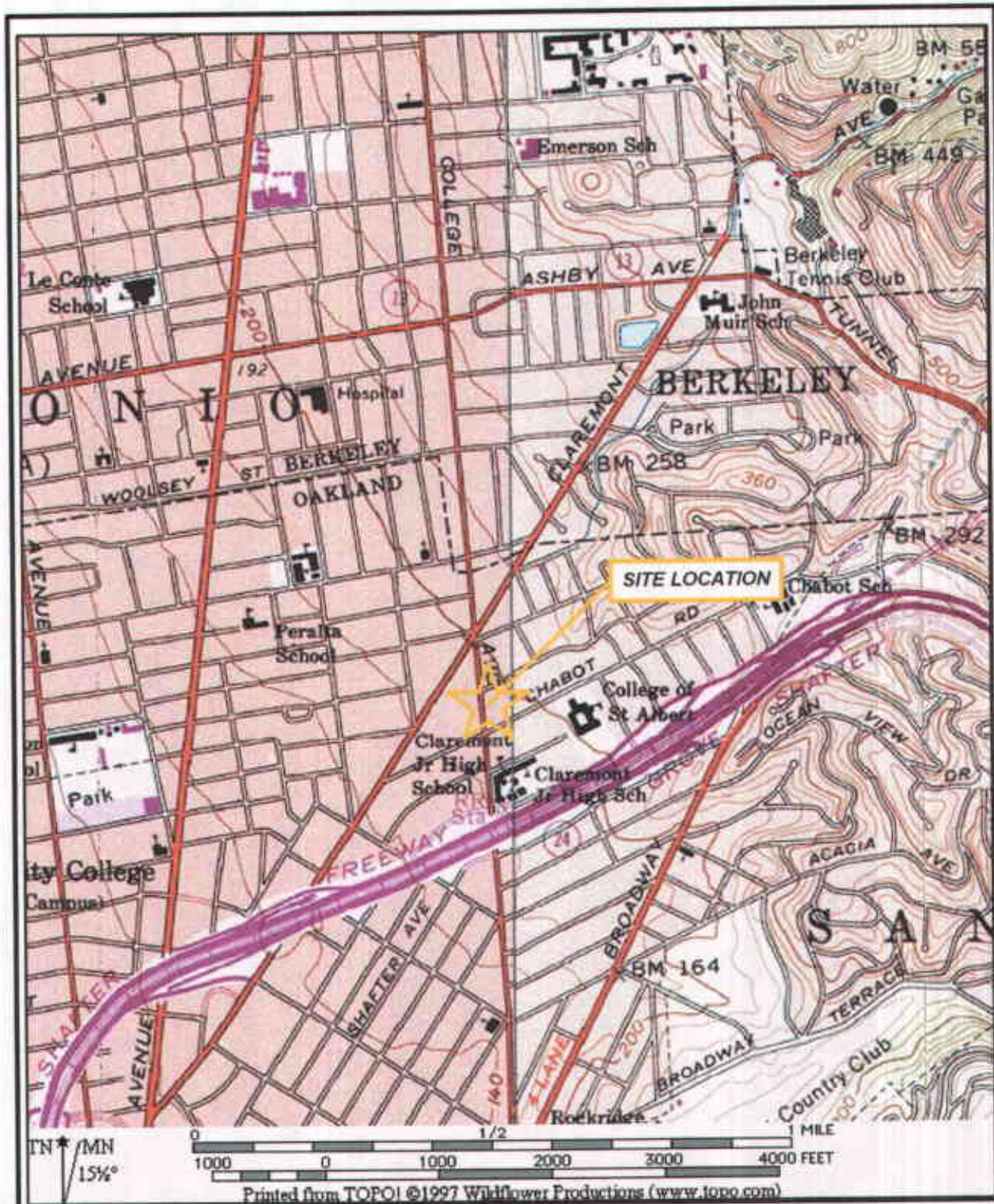
TABLE 1 (Cont'd)
Historical Results of Groundwater Sample Analysis & Fluid-Level Data
 5930 College Avenue, Oakland, CA

TABLE 1 NOTES:

- ²³ - VOC concentrations reported as 21 ug/l MTBE, 128 ug/l benzene, 12 ug/l toluene, 225 ug/l ethylbenzene, 394 ug/l total xylenes, 55 ug/l isopropylbenzene, 182 ug/l n-propylbenzene, 192 ug/l 1,3,5-trimethylbenzene, 574 ug/l 1,2,4-trimethylbenzene, 42 ug/l n-butylbenzene, and 76 ug/l naphthalene
- ²⁴ VOC concentrations reported as 174 ug/l MTBE, 16600 ug/l benzene, 7130 ug/l toluene, 3580 ug/l ethylbenzene, 17200 ug/l total xylenes, 271 ug/l n-propylbenzene, 525 ug/l 1,3,5-trimethylbenzene, 2080 ug/l 1,2,4-trimethylbenzene, and 662 ug/l naphthalene
- ²⁵ VOC concentrations reported as 163 ug/l MTBE, 5710 ug/l benzene, 936 ug/l toluene, 2380 ug/l ethylbenzene, 5750 ug/l total xylenes, 239 ug/l n-propylbenzene, 371 ug/l 1,3,5-trimethylbenzene, 1500 ug/l 1,2,4-trimethylbenzene, and 697 ug/l naphthalene
- ²⁶ VOC concentrations reported as 9.8 ug/l toluene, 150 ug/l ethylbenzene, 241.7 ug/l total xylenes, 25 ug/l isopropylbenzene, 88 ug/l n-propylbenzene, 23 ug/l 1,3,5-trimethylbenzene, 96 ug/l 1,2,4-trimethylbenzene, 15 ug/l n-butylbenzene, and 43 ug/l naphthalene
- ²⁷ VOC concentrations reported as 410ug/l MTBE, 19,800 ug/l benzene, 9420 ug/l toluene, 4970 ug/l ethylbenzene, 26670 ug/l total xylenes, 141 ug/l isopropylbenzene, 437 ug/l n-propylbenzene, 882ug/l 1,3,5-trimethylbenzene, 3450 ug/l 1,2,4-trimethylbenzene, and 1220 ug/l naphthalene
- ²⁸ VOC concentrations reported as 150 ug/l MTBE, 8190 ug/l benzene, 9420 ug/l toluene, 3210 ug/l ethylbenzene, 6870 ug/l total xylenes, 293 ug/l n-propylbenzene, 109 ug/l isopropylbenzene, 445 ug/l 1,3,5-trimethylbenzene, 2390 ug/l 1,2,4-trimethylbenzene, and 1490 ug/l naphthalene
- ²⁹ VOC concentrations reported as 27.4 ug/l toluene, 351 ug/l ethylbenzene, 41.4 ug/l MTBE, 388 ug/l benzene, 570.2 ug/l total xylenes, 45 ug/l isopropylbenzene, 148 ug/l n-propylbenzene, 85 ug/l 1,3,5-trimethylbenzene, 302 ug/l 1,2,4-trimethylbenzene, 28 ug/l n-butylbenzene, and 121 ug/l naphthalene
- ³⁰ VOC concentrations reported as 12 ug/l cis-1,2-Dichloroethene, 55.9 ug/l Benzene, 3.3 ug/l Trichloroethene, 9.2 ug/l Toluene, 84.9 ug/l Tetrachloroethene, 88 ug/l Ethylbenzene, 319.7 ug/l total Xylenes, 11 ug/l Isopropylbenzene, 27 ug/l n-propylbenzene, 110 ug/l 1,3,5-Trimethylbenzene, 257 ug/l 1,2,4-Trimethylbenzene, 22 ug/l n-Butylbenzene, 56 ug/l Napthalene

CRWQCB MSWQO (Primary MCL) = California Regional Water Quality Control Board, Municipal Supply Water Quality Objective;
 Primary Maximum Contaminant Level

CRWQCB/ESL = California Regional Water Quality Control Board's Tier I Environmental (Risk-Based) Screening Level; Levels shown are
 for Groundwater < 10 fbg (3 meters), which IS / IS NOT a threatened drinking water resource.



GOLDEN GATE TANK REMOVAL, INC.
 255 Shipley Street
 San Francisco, California 94107
 Ph (415) 512-1555 Fx (415) 512-0964

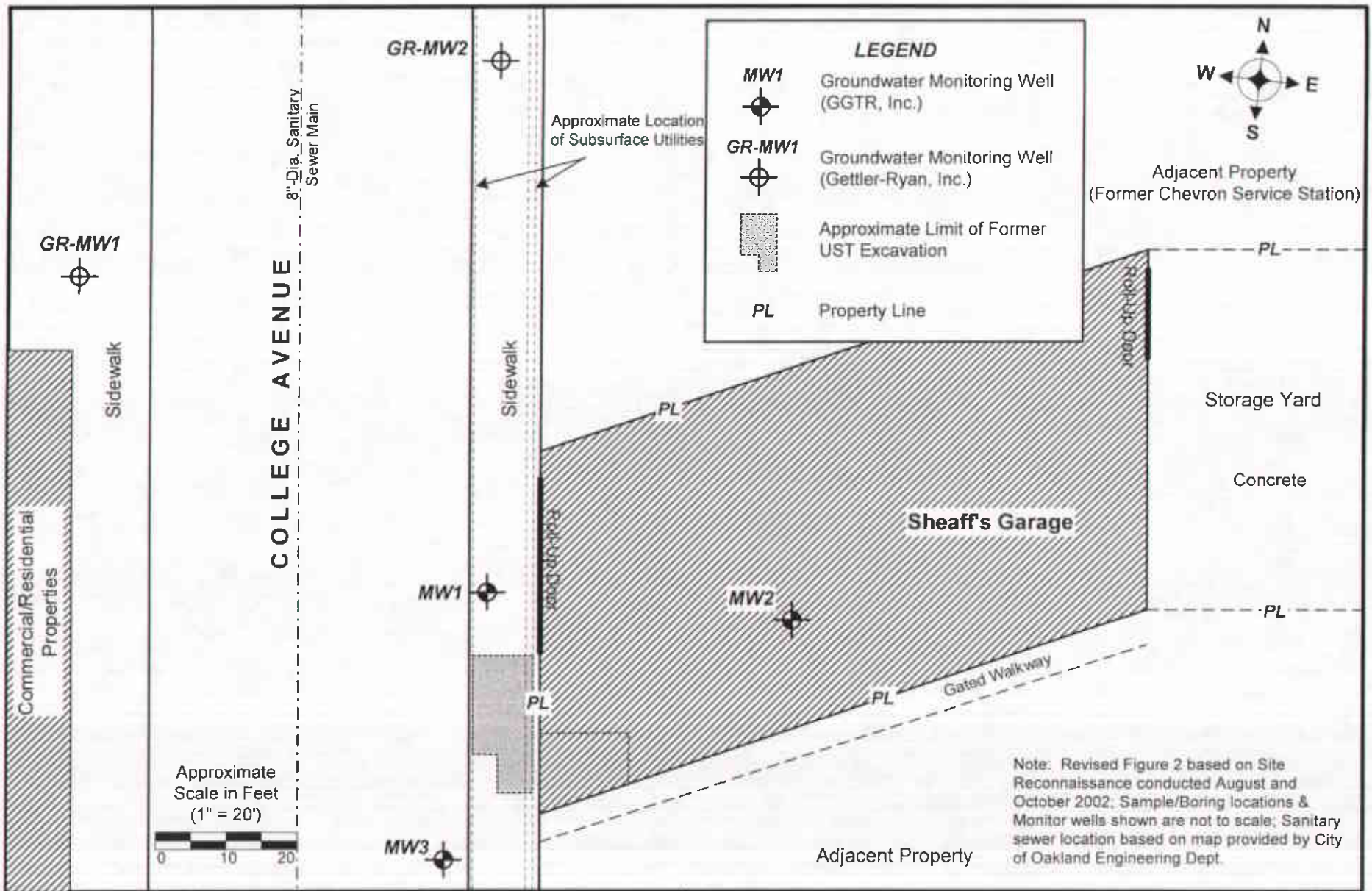
SITE LOCATION MAP
 Sheaff's Garage
 5930 College Avenue
 Oakland, California

GGTR Project No. 7335

Fn: 7335.sc.wp.F1

Revision By: baw/12.03

Figure 1



GOLDEN GATE TANK REMOVAL

255 Shipley Street
 San Francisco, California 94107
 Phone (415) 512-1555 Fax (415) 512-1555

GGTR Project No. 7335

Fn: 7335.GWM.F2.10.03

SITE PLAN

Sheaff's Garage
 5930 College Avenue, Oakland, California

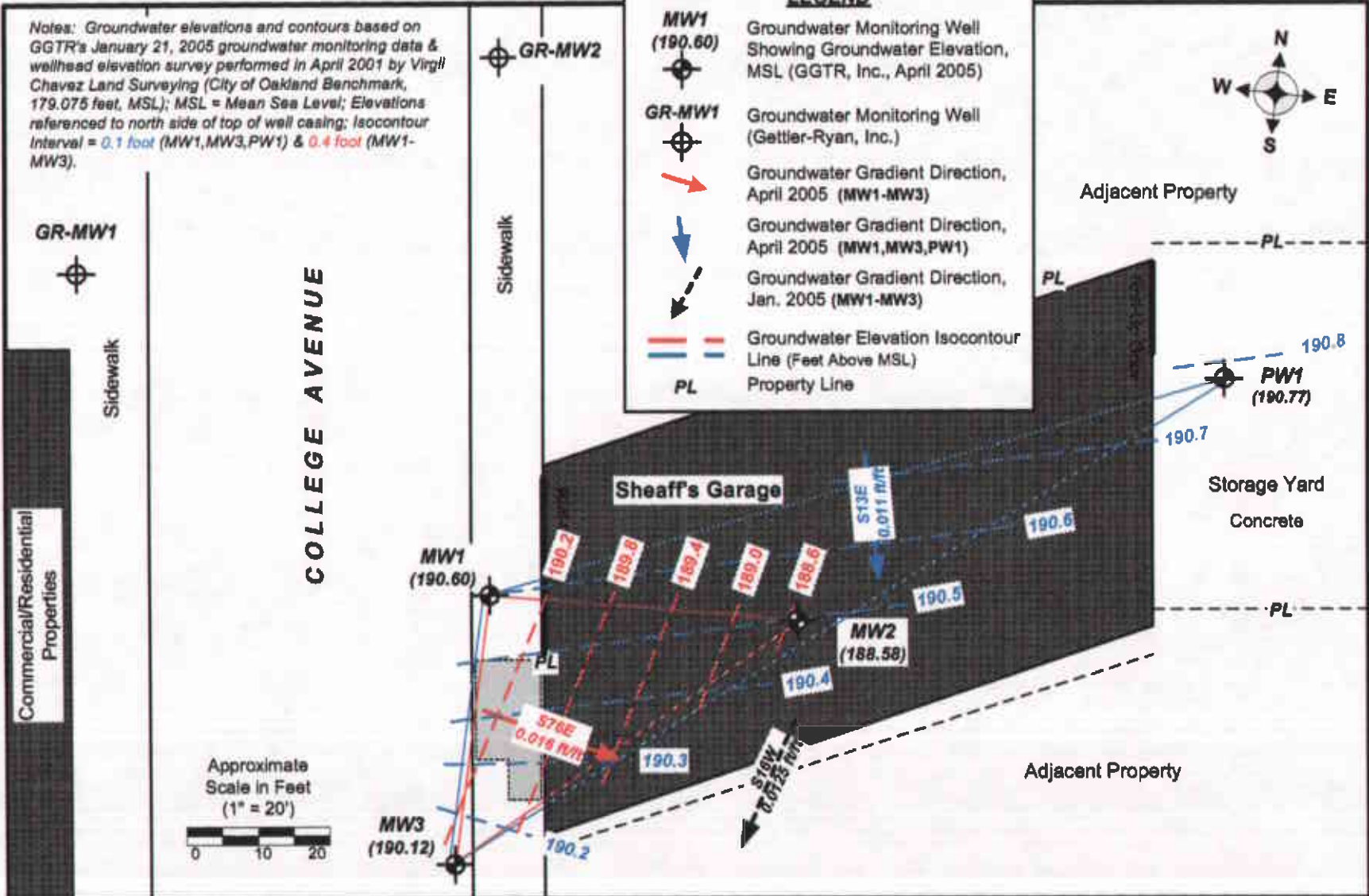
Revision By: baw/10.03

FIGURE 2

Notes: Groundwater elevations and contours based on GGTR's January 21, 2005 groundwater monitoring data & wellhead elevation survey performed in April 2001 by Virgil Chavez Land Surveying (City of Oakland Benchmark, 179.075 feet, MSL); MSL = Mean Sea Level; Elevations referred to north side of top of well casing; Isocontour Interval = 0.1 foot (MW1, MW3, PW1) & 0.4 foot (MW1-MW3).

LEGEND

- MW1 (190.60) Groundwater Monitoring Well Showing Groundwater Elevation, MSL (GGTR, Inc., April 2005)
- GR-MW1 Groundwater Monitoring Well (Gettler-Ryan, Inc.)
- Groundwater Gradient Direction, April 2005 (MW1-MW3)
- Groundwater Gradient Direction, April 2005 (MW1, MW3, PW1)
- Groundwater Gradient Direction, Jan. 2005 (MW1-MW3)
- Groundwater Elevation Isocontour Line (Feet Above MSL)
- PL Property Line



GOLDEN GATE TANK REMOVAL, INC.
 255 Shipley Street
 San Francisco, California 94107
 Phone (415) 512-1555 Fax (415) 512-0964

GGTR Project No. 7335 Fn: 7335.GWM.F3.04.05

GROUNDWATER ELEVATION POTENTIOMETRIC MAP
 Sheaff's Garage
 5930 College Avenue, Oakland, California

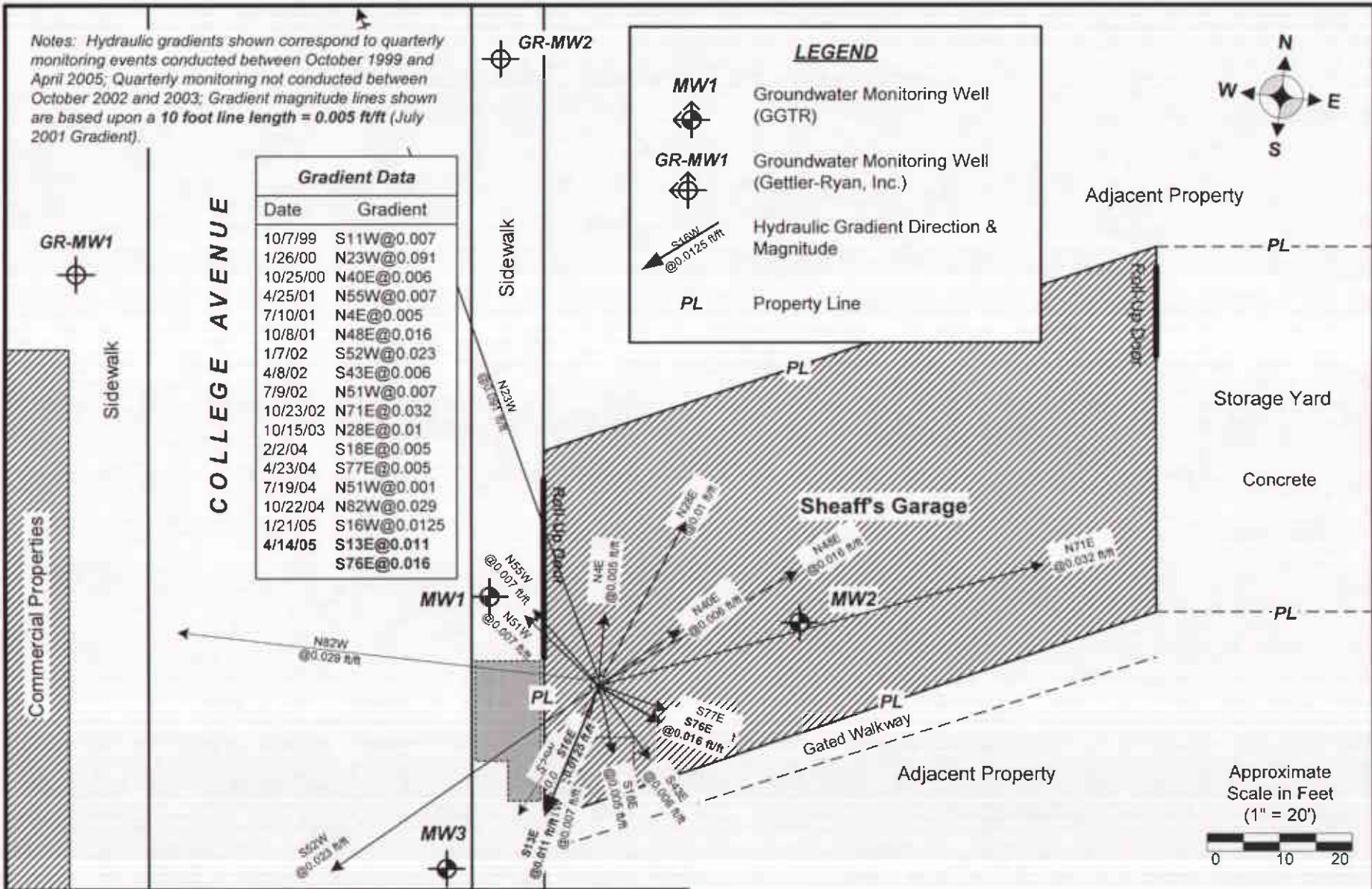
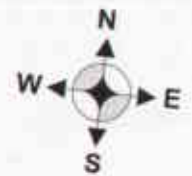
Revision By: gw/06.05 **FIGURE 3**

Notes: Hydraulic gradients shown correspond to quarterly monitoring events conducted between October 1999 and April 2005; Quarterly monitoring not conducted between October 2002 and 2003; Gradient magnitude lines shown are based upon a 10 foot line length = 0.005 ft/ft (July 2001 Gradient).

Gradient Data	
Date	Gradient
10/7/99	S11W@0.007
1/26/00	N23W@0.091
10/25/00	N40E@0.006
4/25/01	N55W@0.007
7/10/01	N4E@0.005
10/8/01	N48E@0.016
1/7/02	S52W@0.023
4/8/02	S43E@0.006
7/9/02	N51W@0.007
10/23/02	N71E@0.032
10/15/03	N28E@0.01
2/2/04	S18E@0.005
4/23/04	S77E@0.005
7/19/04	N51W@0.001
10/22/04	N82W@0.029
1/21/05	S16W@0.0125
4/14/05	S13E@0.011
	S76E@0.016

LEGEND

- MW1 Groundwater Monitoring Well (GGTR)
- GR-MW1 Groundwater Monitoring Well (Gettler-Ryan, Inc.)
- Hydraulic Gradient Direction & Magnitude
- PL Property Line



Approximate Scale in Feet
(1" = 20')

GOLDEN GATE TANK REMOVAL, INC.
 255 Shipley Street
 San Francisco, California 94107
 Phone (415) 512-1555 Fax (415) 512-0964

ROSE DIAGRAM: HISTORICAL HYDRAULIC GRADIENT
 Sheaff's Garage
 5930 College Avenue, Oakland, California

GGTR Project No. 7335

Fn: 7335.GWM.F4.04.05

Revision By: gw/04.05

FIGURE 4

APPENDIX

**LABORATORY CERTIFICATES OF ANALYSIS
CHAIN OF CUSTODY FORM
FLUID-LEVEL MONITORING DATA SHEET
WELL PURGING/SAMPLING DATA SHEETS
GEOTRACKER AB2886 UPLOAD CONFIRMATION FORM
GETTLER-RYAN GROUNDWATER MONITORING DATA**

**QUARTERLY GROUNDWATER MONITORING REPORT
April 14, 2005**

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

GGTR Project No. 7335



Case Narrative

Client: Golden Gate Tank Removal

Project: 5930 COLLEGE AVE.

Lab No: 05-0541

Date Received: 04/14/05

Date reported: 04/22/05

Four water samples were analyzed for gasoline by method 8015B, BTEX /MTBE by method 8021B and VOCs by GC/MS method 8260B. The sample 05-0541-04 was also analyzed for diesel range hydrocarbons by method 8015B and fuel oxygenates by GC/MS method 8260B. No errors occurred. All results for QC/QA samples were within acceptance limits. No MS/MSD were analyzed for diesel due to insufficient sample volume submitted, batch accepted based on LCS/LCSD recoveries.

Erin Cunniffe
Laboratory Director



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0541
Client: Golden Gate Tank
Project: 5930 COLLEGE AVE.

Date Reported: 04/21/2005

Gasoline, BTEX and MTBE by Methods 8015B/8021B
Diesel Range Hydrocarbons by Method 8015B

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. It contains two main sections of data for samples 05-0541-01 and 05-0541-02, listing various hydrocarbons and their concentrations.

*Confirmed by GC/MS; **Does not match diesel pattern



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0541
Client: Golden Gate Tank
Project: 5930 COLLEGE AVE.

Date Reported: 04/21/2005

Gasoline, BTEX and MTBE by Methods 8015B/8021B
Diesel Range Hydrocarbons by Method 8015B

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0541-03	Client ID: 7335-MW3			04/14/2005	W
Benzene	SW8020F	357	UG/L		04/14/2005
Ethylbenzene	SW8020F	287	UG/L		04/14/2005
Gasoline Range Organics	SW8020F	5130	UG/L		04/14/2005
Methyl-tert-butyl ether	SW8020F	*54	UG/L		04/14/2005
SUR-a,a,a-Trifluorotoluene	SW8020F	89	PERCENT		04/14/2005
Toluene	SW8020F	19.4	UG/L		04/14/2005
Xylenes	SW8020F	510	UG/L		04/14/2005
Sample: 05-0541-04	Client ID: 7335-PW-1			04/14/2005	W
Benzene	SW8020F	62.8	UG/L		04/14/2005
Ethylbenzene	SW8020F	79.5	UG/L		04/14/2005
Gasoline Range Organics	SW8020F	3360	UG/L		04/14/2005
Methyl-tert-butyl ether	SW8020F	*ND<0.5	UG/L		04/14/2005
SUR-a,a,a-Trifluorotoluene	SW8020F	90	PERCENT		04/14/2005
Toluene	SW8020F	6.7	UG/L		04/14/2005
Xylenes	SW8020F	317	UG/L		04/14/2005
Diesel Fuel #2	CATFH	**2.12	MG/L		04/15/2005



C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

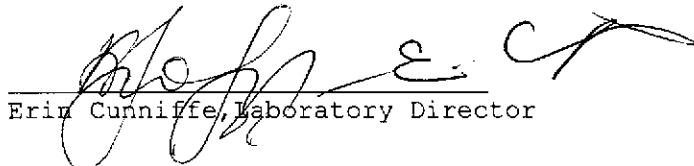
Lab Number: 05-0541
Client: Golden Gate Tank
Project: 5930 COLLEGE AVE.

Date Reported: 04/21/2005
Gasoline, BTEX and MTBE by Methods 8015B/8021B
Diesel Range Hydrocarbons by Method 8015B

Analyte	Method	Reporting Unit	Blank	Avg MS/MSD	RPD	
		Limit		Recovery		
Gasoline Range Organics	SW8020F	50	UG/L	ND	77/88	13
Benzene	SW8020F	0.5	UG/L	ND	71/80	12
Toluene	SW8020F	0.5	UG/L	ND	73/82	12
Ethylbenzene	SW8020F	0.5	UG/L	ND	79/89	12
Xylenes	SW8020F	1.0	UG/L	ND	78/88	12
Methyl-tert-butyl ether	SW8020F	0.5	UG/L	ND	79/87	10
SUR-a,a,a-Trifluorotoluene	SW8020F		PERCENT	101	101/100	1
Diesel Fuel #2	CATFH	0.05	MG/L	ND	78/88	12

ELAP Certificate NO:1753

Reviewed and Approved


Erin Cunniffe, Laboratory Director



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B

Laboratory Number	05-0541-01	05-0541-02
Client ID	7335-MW1	7335-MW2
Matrix	W	W
Analyte	UG/L	UG/L
Bromochloromethane	ND<100	ND<10
Dichlorodifluoromethane	ND<100	ND<10
Chloromethane	ND<100	ND<10
Vinyl chloride	ND<50	ND<5
Bromomethane	ND<100	ND<10
Chloroethane	ND<100	ND<10
Trichlorofluoromethane	ND<100	ND<10
1,1-Dichloroethene	ND<50	ND<5
Acetone	ND<1000	ND<100
Methylene chloride	ND<2500	ND<250
trans-1,2-Dichloroethene	ND<100	ND<10
Methyl-tert-butyl ether	410	150
1,1-Dichloroethane	ND<50	ND<5
2,2-Dichloropropane	ND<100	ND<10
cis-1,2-Dichloroethene	ND<100	ND<10
2-Butanone	ND<500	ND<50
Chloroform	ND<50	ND<5
Carbon tetrachloride	ND<50	ND<5
1,1-Dichloropropene	ND<100	ND<10
Benzene	19800	8190
1,2-Dichloroethane	ND<100	ND<10
Trichloroethene	ND<50	ND<5
1,2-Dichloropropane	ND<100	ND<10
Dibromomethane	ND<100	ND<10
Bromodichloromethane	ND<100	ND<10
trans-1,3-Dichloropropene	ND<100	ND<10
4-Methyl-2-pentanone	ND<100	ND<10
Toluene	9420	1180
cis-1,3-Dichloropropene	ND<100	ND<10
1,1,2-Trichloroethane	ND<100	ND<10
Tetrachloroethene	ND<50	ND<5
1,3-Dichloropropane	ND<100	ND<10
2-Hexanone	ND<100	ND<10
Dibromochloromethane	ND<100	ND<10

Comments:



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B

Laboratory Number	05-0541-01	05-0541-02
Client ID	7335-MW1	7335-MW2
Matrix	W	W
Analyte	UG/L	UG/L
1,2-Dibromoethane	ND<50	ND<5
Chlorobenzene	ND<100	ND<10
1,1,1,2-Tetrachloroethane	ND<100	ND<10
Ethylbenzene	4970	3210
Xylene, Isomers m & p	14800	5780
o-Xylene	6900	1090
Styrene	ND<100	ND<10
Bromoform	ND<100	ND<10
Isopropylbenzene	141	109
Bromobenzene	ND<100	ND<10
1,1,2,2-Tetrachloroethane	ND<100	ND<10
n-Propylbenzene	437	293
2-Chlorotoluene	ND<100	ND<10
4-Chlorotoluene	ND<100	ND<10
1,3,5-Trimethylbenzene	882	445
tert-Butylbenzene	ND<100	ND<10
1,2,4-Trimethylbenzene	3450	2390
1,3-Dichlorobenzene	ND<100	ND<10
1,4-Dichlorobenzene	ND<100	ND<10
sec-Butylbenzene	ND<100	ND<10
1,2-Dichlorobenzene	ND<100	ND<10
n-Butylbenzene	ND<100	71
Naphthalene	1220	1490
1,2,4-Trichlorobenzene	ND<100	ND<10
Hexachlorobutadiene	ND<100	ND<10
1,2,3-Trichlorobenzene	ND<100	ND<10
1,2,3-Trichloropropane	ND<100	ND<10
Acetonitrile	ND<500	ND<50
Acrylonitrile	ND<100	ND<10
Isobutanol	ND<500	ND<50
1,1,1-Trichloroethane	ND<100	ND<10
SUR-Dibromofluoromethane	91	90
SUR-Toluene-d8	109	104
SUR-4-Bromofluorobenzene	110	110

Comments:



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B

Laboratory Number	05-0541-01	05-0541-02
Client ID	7335-MW1	7335-MW2
Matrix	W	W
Analyte	PERCENT	PERCENT
SUR-1,2-Dichloroethane-d4	94	95



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical analytes and their corresponding results and recovery data.



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, MS/MSD, Recovery, RPD, Recovery Limit, RPD Limit. Lists various analytes like Styrene, Bromoform, Isopropylbenzene, etc., with their respective results and recovery percentages.

Reviewed and Approved

Handwritten signature of Erin Cuniffe, Laboratory Director



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B

Laboratory Number	05-0541-03	05-0541-04
Client ID	7335-MW3	7335-PW-1
Matrix	W	W
Analyte	UG/L	UG/L
Bromochloromethane	ND<1	ND<1
Dichlorodifluoromethane	ND<1	ND<1
Chloromethane	ND<1	ND<1
Vinyl chloride	ND<0.5	ND<0.5
Bromomethane	ND<1	ND<1
Chloroethane	ND<1	ND<1
Trichlorofluoromethane	ND<1	ND<1
1,1-Dichloroethene	ND<0.5	ND<0.5
Acetone	ND<10	ND<10
Methylene chloride	ND<25	ND<25
trans-1,2-Dichloroethene	ND<1	ND<1
Methyl-tert-butyl ether	41.4	ND<0.5
1,1-Dichloroethane	ND<0.5	ND<0.5
2,2-Dichloropropane	ND<1	ND<1
cis-1,2-Dichloroethene	ND<1	12
2-Butanone	ND<5	ND<5
Chloroform	ND<0.5	ND<0.5
Carbon tetrachloride	ND<0.5	ND<0.5
1,1-Dichloropropene	ND<1	ND<1
Benzene	388	55.9
1,2-Dichloroethane	ND<1	ND<1
Trichloroethene	ND<0.5	3.3
1,2-Dichloropropane	ND<1	ND<1
Dibromomethane	ND<1	ND<1
Bromodichloromethane	ND<1	ND<1
trans-1,3-Dichloropropene	ND<1	ND<1
4-Methyl-2-pentanone	ND<1	ND<1
Toluene	27.4	9.2
cis-1,3-Dichloropropene	ND<1	ND<1
1,1,2-Trichloroethane	ND<1	ND<1
Tetrachloroethene	ND<0.5	84.9
1,3-Dichloropropane	ND<1	ND<1
2-Hexanone	ND<1	ND<1
Dibromochloromethane	ND<1	ND<1

Geo Tracker

Comments:



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B

Table with 3 columns: Analyte, 05-0541-03, 05-0541-04. Lists various chemical compounds and their concentrations in UG/L.

Comments:



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B

Laboratory Number	05-0541-03	05-0541-04
Client ID	7335-MW3	7335-PW-1
Matrix	W	W
Analyte	PERCENT	PERCENT
SUR-1,2-Dichloroethane-d4	109	109



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results UG/L, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical analytes and their corresponding results and recovery data.



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Volatile Organics by GC/MS Method 8260B
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various analytes like Styrene, Bromoform, Isopropylbenzene, etc., with their respective results and recovery percentages.

Reviewed and Approved

Erin Cunniffe
Laboratory Director



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Fuel Oxygenates by Method 8260B

Laboratory Number	05-0541-04
Client ID	7335-PW-1
Matrix	W
Analyte	UG/L
Methyl-tert-butyl ether	ND<0.5
Ethyl tert-butyl ether	ND<1
tert-Amyl methyl ether	ND<1
Di-isopropyl ether (DIPE)	ND<0.5
tert-Butyl alcohol	ND<10
1,2-Dichloroethane	ND<1
1,2-Dibromoethane	ND<0.5
Ethanol	ND<50
SUR-Dibromofluoromethane	97
SUR-Toluene-d8	103
SUR-4-Bromofluorobenzene	101
SUR-1,2-Dichloroethane-d4	109



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0541
Client : Golden Gate Tank
Project : 5930 COLLEGE AVE.

Date Sampled : 04/14/2005
Date Analyzed: 04/15/2005
Date Reported: 04/21/2005

Fuel Oxygenates by Method 8260B
Quality Control/Quality Assurance Summary

Table with 6 columns: Laboratory Number, Client ID, Matrix, Analyte, Results UG/L, %Recoveries, RPD, Recovery Limit, RPD Limit. Rows include Ethanol, Methyl-tert-butyl ether, Di-isopropyl ether (DIPE), tert-butyl Alcohol, Ethyl tert-butyl ether, tert-Amyl methyl ether, 1,1-Dichloroethene, Benzene, Trichloroethene, Toluene, Chlorobenzene, SUR-Dibromofluoromethane, SUR-Toluene-d8, SUR-4-Bromofluorobenzene, SUR-1,2-Dichloroethane-d4.

Reviewed and Approved

Handwritten signature of Erin Cunniffe
Erin Cunniffe
Laboratory Director



North State Labs

815 Dubuque Avenue, South San Francisco, CA 94080
Phone: (650) 266-4563 Fax: (650) 266-4560

5930 CHART 05-0541
Chain of Custody / Request for Analysis
Lab Job No.: _____ Page ___ of ___

Client: GGTR	Report to: BRENT WHEELER	Phone: 415-555-2555	Turnaround Time 24 hr
Mailing Address: 255 Shipley SF CA	Billing to: SAME	Fax: 415 512 1555	
		email: ggtr.com	Date: 4-14-05
		PO# 7335	Sampler: WOLF

Project / Site Address / Global ID: **TO600102112** Analysis Requested
5930 College Ave

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	Analysis				Field Point ID
					TPH-G BTEX MIBE (80218)	VOCs (82608)	TPH-D (8015)	HEAVY METALS (8260)	
1 7335-MW1	H ₂ O	5 / Vials	HCl	4/14/05 / 1132	✓	✓			7335-MW1
2 7335-MW2	↓	↓	↓	↓ / 1145	✓	✓			7335-MW2
3 7335-MW3	↓	↓	↓	↓ / 1125	✓	✓			7335-MW3
4 7335-PWH	↓	1 / WATER	↓	↓ / 1205	✓	✓	✓	✓	7335-PWH

EDF
PDF

Relinquished by:	Date: 4/14/05 Time: 1:30	Received by:
Relinquished by:	Date: 4/14/05 Time: 1:35	Received by:
Relinquished by:	Date: _____ Time: _____	Received by:

Lab Comments/
Hazards

Golden Gate Tank Removal, Inc.

FLUID-LEVEL MONITORING DATA

Project No: 7335 Date: 4-14-05

Project/Site Location: 5930 COLLEGE AVE OAKLAND

Technician: Wolf Instrument: KECK

Monitoring Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Comments
MW1	5.3	∅	∅	14.6	—
MW2	8.7	∅	∅	19.8	ODOR
MW3	5.1	∅	∅	18.8	ODOR
R1	6.4	∅	∅	18.3	—

Measurements referenced to: N TOC Grade.

Page 1 of 1

Golden Gate Tank Removal, Inc.

WELL PURGING/SAMPLING DATA

Project Number: 7335 Date: 4.14.05

Project / Site Location: 5930 COLLEGE AVE
OAKLAND CA

Sampler/Technician: WOLF

Casing/Borehole Diameter (inches)	0.75/1.75	<u>28</u>	4/8	4/10	6/10	6/12
Casing/Borehole Volumes (gallons/foot)	0.02/0.13	<u>0.20.9</u>	0.7/1.2	0.7/1.6	1.5/2.2	1.5/3.1

Well No. MW3 MW3	Well No. MW1 MW1																																																								
A. Total Well Depth <u>18.8</u> Ft.(toc)	A. Total Well Depth <u>12.6</u> Ft.(toc)																																																								
B. Depth To Water <u>5.1</u> Ft.	B. Depth To Water <u>5.3</u> Ft.																																																								
C. Water Height (A-B) <u>13.7</u> Ft.	C. Water Height (A-B) <u>14.3</u> Ft.																																																								
D. Well Casing Diameter <u>2</u> In.	D. Well Casing Diameter <u>2</u> In.																																																								
E. Casing Volume Constant (from above table) <u>.2</u>	E. Casing Volume Constant (from above table) <u>.2</u>																																																								
F. Three (3) Casing or Borehole Volumes (CxEx3) <u>8.22</u> Gals.	F. Three (3) Casing or Borehole Volumes (CxEx3) <u>8.5</u> Gals.																																																								
G. 80% Recharge Level [B+(ExC)] <u>7.84</u> Ft.	G. 80% Recharge Level [B+(ExC)] <u>8.16</u> Ft.																																																								
<u>Purge Event #1</u> Start Time: <u>0945</u> Finish Time: <u>1005</u> Purge Volume: <u>8.2</u>	<u>Purge Event #1</u> Start Time: <u>1018</u> Finish Time: <u>1030</u> Purge Volume: <u>8.5</u>																																																								
<u>Recharge #1</u> Depth to Water: <u>6.8</u> Time Measured: <u>1120</u>	<u>Recharge #1</u> Depth to Water: <u>5.0</u> Time Measured: <u>1122</u>																																																								
<u>Purge Event #2</u> Start Time: Finish Time: Purge Volume:	<u>Purge Event #2</u> Start Time: Finish Time: Purge Volume:																																																								
<u>Recharge #2</u> Depth to Water: Time Measured:	<u>Recharge #2</u> Depth to Water: Time Measured:																																																								
Well Fluid Parameters: (Casing or Borehole Volumes)	Well Fluid Parameters: (Casing or Borehole Volumes)																																																								
<table border="1"> <tr><td></td><td>0</td><td>1</td><td>1.5</td><td>2</td><td>2.5</td><td>3</td></tr> <tr><td>pH</td><td>7.6</td><td>7.39</td><td>7.54</td><td>7.35</td><td>7.34</td><td>7.4</td></tr> <tr><td>T(°F)</td><td>16.4</td><td>15.9</td><td>16.5</td><td>16.4</td><td>16.6</td><td>17</td></tr> <tr><td>Cond.</td><td>489</td><td>460</td><td>487</td><td>488</td><td>488</td><td>519</td></tr> </table>		0	1	1.5	2	2.5	3	pH	7.6	7.39	7.54	7.35	7.34	7.4	T(°F)	16.4	15.9	16.5	16.4	16.6	17	Cond.	489	460	487	488	488	519	<table border="1"> <tr><td></td><td>0</td><td>1</td><td>1.5</td><td>2</td><td>2.5</td><td>3</td></tr> <tr><td>pH</td><td>7.16</td><td>7.27</td><td>7.03</td><td>7.11</td><td>7.79</td><td>7.8</td></tr> <tr><td>T(°F)</td><td>17.2</td><td>17.1</td><td>17.0</td><td>17.1</td><td>18.5</td><td>18.4</td></tr> <tr><td>Cond.</td><td>910</td><td>915</td><td>916</td><td>911</td><td>911</td><td>911</td></tr> </table>		0	1	1.5	2	2.5	3	pH	7.16	7.27	7.03	7.11	7.79	7.8	T(°F)	17.2	17.1	17.0	17.1	18.5	18.4	Cond.	910	915	916	911	911	911
	0	1	1.5	2	2.5	3																																																			
pH	7.6	7.39	7.54	7.35	7.34	7.4																																																			
T(°F)	16.4	15.9	16.5	16.4	16.6	17																																																			
Cond.	489	460	487	488	488	519																																																			
	0	1	1.5	2	2.5	3																																																			
pH	7.16	7.27	7.03	7.11	7.79	7.8																																																			
T(°F)	17.2	17.1	17.0	17.1	18.5	18.4																																																			
Cond.	910	915	916	911	911	911																																																			
DO: <u>4.7%</u> / <u>0.48 mg/L</u>	DO: <u>5.2%</u> / <u>0.49 mg/L</u>																																																								
Turbidity: <u>ORP</u>	Turbidity: <u>ORP</u>																																																								
Summary Data: Total Gallons Purged: <u>8.5</u> Purge device: <u>DC 60 PURGE PUMP</u> Sampling Device: <u>DISP BAILER</u> Sample Collection Time: <u>1125</u> Sample Appearance: <u>0002 / grey/clar/sher</u>	Summary Data: Total Gallons Purged: <u>8.2</u> Purge device: <u>DC 60 PURGE PUMP</u> Sampling Device: <u>DISP BAILER</u> Sample Collection Time: <u>1132</u> Sample Appearance: <u>0002 / No SHELL</u>																																																								
Drums Remaining Onsite: <u>4</u> Total Volume: <u>100</u> Gals. (Show Location on Site Plan)																																																									
<u>(2 50L)</u>																																																									

Golden Gate Tank Removal, Inc.

WELL PURGING/SAMPLING DATA

Project Number: 7335 - # Date: 4.14.05

Project / Site Location: 5930 COLLEGE AVE

OAKLAND CA

Sampler/Technician: WOLF

Casing/Borehole Diameter (inches)	0.75/1.75	2/3	4/8	4/10	6/10	6/12
Casing/Borehole Volumes (gallons/foot)	0.02/0.13	0.2/0.9	0.7/1.2	0.7/1.6	1.5/2.2	1.5/3.1

<p>Well No. <u>MW2</u></p> <p>A. Total Well Depth <u>17.8</u> Ft.(toc)</p> <p>B. Depth To Water <u>8.7</u> Ft</p> <p>C. Water Height (A-B) <u>11.1</u> Ft</p> <p>D. Well Casing Diameter <u>2</u> In.</p> <p>E. Casing Volume Constant (from above table) <u>.2</u></p> <p>F. Three (3) Casing or Borehole Volumes (CxEx3) <u>6.6</u> Gals.</p> <p>G. 80% Recharge Level [B+(ExC)] <u>10.92</u> Ft.</p> <p><u>Purge Event #1</u> Start Time: <u>1040</u> Finish Time: <u>1053</u> Purge Volume: <u>@ 7</u></p> <p><u>Recharge #1</u> Depth to Water: <u>7.1</u> Time Measured: <u>1125</u></p> <p><u>Purge Event #2</u> Start Time: Finish Time: Purge Volume:</p> <p><u>Recharge #2</u> Depth to Water: <u>6.9</u> Time Measured: <u>1140</u></p> <p>Well Fluid Parameters: (Casing or Borehole Volumes)</p> <table border="1"> <tr> <td></td> <td>0</td> <td>1</td> <td>2.5</td> <td>2</td> <td>2.5</td> <td>3</td> </tr> <tr> <td>pH</td> <td>7.17</td> <td>7.03</td> <td>2.02</td> <td>7.01</td> <td>7.06</td> <td>7.5</td> </tr> <tr> <td>T (°F)</td> <td>17.7</td> <td>17.5</td> <td>12.2</td> <td>17.7</td> <td>17.7</td> <td>17.1</td> </tr> <tr> <td>Cond.</td> <td>1039</td> <td>1042</td> <td>1025</td> <td>1052</td> <td>1068</td> <td>-</td> </tr> </table> <p>DO Turbidity: <u>6.9%</u> / <u>0.76 mg/L</u> ORP</p> <p>Summary Data: Total Gallons Purged: <u>6.6 - 7</u> Purge device: <u>DC PURGE PUMP</u> Sampling Device: <u>DISP BAILER</u> Sample Collection Time: <u>1145</u> Sample Appearance: <u>clear / odor</u></p>		0	1	2.5	2	2.5	3	pH	7.17	7.03	2.02	7.01	7.06	7.5	T (°F)	17.7	17.5	12.2	17.7	17.7	17.1	Cond.	1039	1042	1025	1052	1068	-	<p>Well No. <u>PW1</u></p> <p>A. Total Well Depth <u>18.3</u> Ft.(toc)</p> <p>B. Depth To Water <u>6.4</u> Ft</p> <p>C. Water Height (A-B) <u>11.9</u> Ft</p> <p>D. Well Casing Diameter <u>2</u> In.</p> <p>E. Casing Volume Constant (from above table) <u>.2</u></p> <p>F. Three (3) Casing or Borehole Volumes (CxEx3) <u>7.1</u> Gals.</p> <p>G. 80% Recharge Level [B+(ExC)] <u>8.7</u> Ft.</p> <p><u>Purge Event #1</u> Start Time: <u>1100</u> Finish Time: <u>1130</u> Purge Volume: <u>@ 20 (today)</u></p> <p><u>Recharge #1</u> Depth to Water: <u>6.3</u> Time Measured: <u>1155</u></p> <p><u>Purge Event #2</u> Start Time: Finish Time: Purge Volume:</p> <p><u>Recharge #2</u> Depth to Water: Time Measured:</p> <p>Well Fluid Parameters: (Casing or Borehole Volumes)</p> <table border="1"> <tr> <td></td> <td>0</td> <td>1</td> <td>2.5</td> <td>2</td> <td>2.5</td> <td>3</td> </tr> <tr> <td>pH</td> <td>7.25</td> <td>7.25</td> <td>7.13</td> <td>7.16</td> <td>7.35</td> <td>6.9</td> </tr> <tr> <td>T (°F)</td> <td>17</td> <td>16.6</td> <td>16.5</td> <td>16.7</td> <td>16.8</td> <td>16.7</td> </tr> <tr> <td>Cond.</td> <td>996</td> <td>749</td> <td>750</td> <td>583</td> <td>538</td> <td>514</td> </tr> </table> <p>DO Turbidity ORP</p> <p>Summary Data: Total Gallons Purged: Purge device: Sampling Device: Sample Collection Time: <u>1205</u> Sample Appearance: <u>SILTY</u></p>		0	1	2.5	2	2.5	3	pH	7.25	7.25	7.13	7.16	7.35	6.9	T (°F)	17	16.6	16.5	16.7	16.8	16.7	Cond.	996	749	750	583	538	514
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Drums Remaining Onsite: _____ Total Volume: _____ Gals. (Show Location on Site Plan)

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

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Your file has been successfully submitted!

Submittal Title: 04/14/05 Fluid-Level Monitoring Data (MW1-MW3, PW1)

Submittal Date/Time: 8/18/2005 11:06:00 AM

Confirmation Number: 2514785587

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

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1									
01/03/01	196.91	12.75	184.16	930 ¹	2.9	6.9	2.7	7.6	14/<2.0 ³
04/25/01	196.91	9.23	187.68	210 ⁴	2.0	1.5	2.0	3.3	5.3/<2.0 ³
07/09/01	196.91	11.86	185.05	290 ⁵	1.8	2.0	2.5	0.96	<2.5
10/08/01	196.91	13.49	183.42	200	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	196.91	7.33	189.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/08/02	196.91	7.45	189.46	670	<0.50	<2.0	<1.0	5.6	<2.5
10/15/02	196.91	13.68	183.23	260	0.62	0.82	<0.50	<1.5	--
04/15/03	196.91	6.82	190.09	1,700	1.3	<5.0	<2.0	<5.0	--
10/31/03	196.91	13.72	183.19	150	<2.0	0.7	<2.0	<5.0	--
04/23/04	196.91	9.02	187.89	<50	<0.5	<0.5	<0.5	<1.5	--
10/22/04	196.91	11.50	185.41	63	<0.5	<0.5	<0.5	<1.5	--
04/14/05	196.91	7.11	189.80	<50	<0.5	<0.5	<0.5	<1.5	--
MW-2									
01/03/01	197.35	12.48	184.87	2,100 ²	110	11	63	25	83/2.2 ³
04/25/01	197.35	8.90	188.45	1,700 ⁴	150	12	30	15	150/<2.0 ³
07/09/01	197.35	11.44	185.91	2,500 ⁵	200	21	55	26	<50
10/08/01	197.35	13.37	183.98	4,200	87	2.8	29	9.8	<2.5
01/13/02	197.35	6.55	190.80	410	20	2.9	<2.5	4.4	27/<2.0 ³
04/08/02	197.35	8.37	188.98	4,000	70	1.7	17	17	<2.5
10/15/02	197.35	13.00	184.35	3,100	41	2.2	16	<6.0	--
04/15/03	197.35	7.58	189.77	2,400	37	<2.5	12	<7.5	--
10/31/03	197.35	13.02	184.33	2,300	12	3.4	4.8	<7.5	--
04/23/04	197.35	8.38	188.97	960	8.9	1.0	2.4	<1.5	--
10/22/04	197.35	11.41	185.94	2,200	24	<2.5	4.1	<10	--
04/14/05	197.35	6.69	190.66	640	2.1	<2.0	<2.0	7.5	--

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

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK									
TB-LB									
01/03/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/25/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/09/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA									
10/08/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
04/08/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	--
04/15/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/31/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/23/04	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
10/22/04	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
04/14/05	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--

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

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

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

¹ Laboratory report indicates unidentified hydrocarbons C6-C12.

² Laboratory report indicates gasoline C6-C12.

³ MTBE by EPA Method 8260.

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

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