

QUARTERLY GROUNDWATER MONITORING REPORT July 19, 2004

Sheaff's Garage 5930 College Avenue Oakland, California

ACHCSA Fuel Leak Case No. RO0000377

Prepared For:

William G. Sheaff TTE Trust Mr. Brian Sheaff 1945 Parkside Drive Concord, CA 94519

Prepared By:

Golden Gate Tank Removal, Inc. 255 Shipley Street San Francisco, CA 94107

> GGTR Project No. 7335 November 11, 2004

Reviewed By:

Mark Youngkin

Registered Geologist &EG 1380

Authored By:

Greti J.R. Wolf Staff Geologist

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5930 College Avenue, Oakland, California

Introduction

This report presents the results and findings of the July 19, 2004 groundwater monitoring and sampling activities conducted by Golden Gate Tank Removal, Inc. (GGTR) at 5930 College Avenue in Oakland, California. This was the 15th quarterly monitoring event performed at the site for the three existing monitor wells, MW1 through MW3. 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 biannual monitoring and sampling of GR-MW1 & GR-MW2 on April 23, 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 Sheaff's Garage for the service and repair of automobiles, with no active fuel storage or distribution systems. 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 was 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 throughout B10 and B11 was predominantly a clayey, sandy silt.

Depth to groundwater, as measured on a quarterly basis in the three onsite monitoring wells (October 1999 through July 2004) ranged between approximately 5.5 and 13 fbg. The average depth to groundwater reported during the July 2004 monitoring event was approximately 9.5 fbg, with an associated mean groundwater elevation of 186.97 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 gradient measured during the July 2004 event was approximately 0.001 ft/ft directed 51° west of north. 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 July 19, 2004, GGTR contracted North State Labs (NSL) of South San Francisco, California to monitor and sample MW1 through MW3, 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, NSL removed the well cover and locking compression cap from each well and allowed the groundwater in each well column to stabilize for approximately 25 minutes. NSL then measured and recorded the depth to groundwater and presence of floating product using a Keck® electronic oil/water interface probe. NSL also measured the dissolved oxygen (DO) of the groundwater (insitu) using a YSI55® DO meter and measured the oxidation-reduction potential in each well to assess the occurrence of biodegradation in shallow groundwater beneath the site. DO and ORP were 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.

NSL than 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, NSL 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 July 19, 2004, NSL submitted the groundwater samples collected from the three monitoring wells 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; SW8020F)
- Volatile Organic Compounds (EPA Method 8260), including lead scavengers 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC)

NSL completed all volatile organic analyses by July 27, 2004, which is in conformance with the 14-day required time limit for analysis. NSL 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. A laboratory-supplied trip blank consisting of deionized water was returned with the groundwater samples to the laboratory and analyzed for BTEX only (Sample ID 7335-TB), the results of which are included in Table 1.

Groundwater Monitoring Results

The groundwater elevations measured relative to the top of well casing in MW1 through MW3 ranged between 186.95 (MW1) and 186.98 (MW2) feet above Mean Sea Level. The associated groundwater gradient calculated for the July 19, 2004 monitoring event was 0.1 foot / 100 feet (0.001 ft/ft) directed approximately 51° west of north. The groundwater gradient and associated elevation isocontour lines are shown on 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 July 19, 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) across the site. The current gradient data is shown in **bold** type.

Table - Mean Groundwater Elevation, Flow Direction, and Gradient

Measurement	Mean Groundwater	Groundwater Flow	Gradient
Date	Elevation (feet)	Direction	(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

Discussion of Monitoring Results

The mean groundwater elevation measured at the site during this event was approximately 2.04 feet lower than that measured during the monitoring event in April 2004 and comparable to the mean groundwater elevation reported in July 2001 (186.26 feet) and 2002 (186.63 feet). Based on the relative groundwater elevation data recorded for this event, the groundwater flow direction was directed approximately 51° west of north, representing a presumed counterclockwise shift of approximately 149° toward the northwest, as compared to the previous monitoring event. This groundwater flow direction has fluctuated significantly since the installation of the monitor wells in October 2001; however, is relatively similar to historical gradient directions measured during this time of year in April 2001 and July 2002. The calculated gradient slope for this event (0.001 foot/foot) has decreased significantly since the previous two monitoring events in February and March 2004, and is historically the most gradual slope recorded at the site since October 1999.

Shallow, unconfined groundwater in the vicinity of the former UST cavity and monitored area (July 2004) was characterized by relatively moderate dissolved oxygen concentrations ranging between 6.7% (0.61 milligrams per liter, mg/L) in MW2 and 7.7% (0.70 mg/L) in MW3, signifying that aerobic biodegradation is potentially continuing in the shallow

groundwater beneath the site. The groundwater in each well was also initially monitored for Oxidation-Reduction Potential (ORP), which ranged between -046 millivolts in MW2 to +053 millivolts in MW3, generally signifying that anaerobic biodegradation (iron reduction range) may potentially be occurring within the shallow groundwater once the dissolved oxygen is depleted. The July 2004 ORP values are consistent with those recorded in October 2003, however have fluctuated slightly since the April 2004 event. The groundwater was also characterized by an average pH, specific conductivity, and temperature of 6.45, 580 micromhos per centimeter (µmhos/cm), and 19.0 Centigrade degrees, respectively. Neither free product nor surface sheen was present in the purge water or groundwater samples in MW1 through MW3 during the July 2004 monitoring event; however, slight to moderate gasoline-like hydrocarbon odors were detected in the purge water removed from all three wells. Documentation of the well purging and sampling activities is contained in the Field Data Sheets of the Appendix.

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 July 19, 2004 monitoring event. A copy of the Laboratory Certificate of Analysis and the Chain-of-Custody Record associated with GGTR's groundwater samples is in the Appendix. Documentation of the well purging and sampling activities is contained in the Field Data Sheets of the Appendix.

July 19, 2004 Groundwater Sampling Results

Well ID	Sample ID	TPH-G (ug/L)	BTEX (ug/L)	MTBE (ug/L)	VOC/OXY (ug/L)
MW1	7335-MW1	63900	7260 / 2270 / 2510 / 10100	373 (303*)	32650 / NA
MW2	7335-MW2	28300	2540 / 239 / 1320 / 2300	283 (373*)	10284 / NA
MW3	7335-MW3	9860	20.4 / 3.2 / 30.6 / 117	ND (ND*)	568.2 / NA

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

Total Petroleum Hydrocarbons as gasoline (TPH-G) increased in monitor well MW1 from 49,200 to 63,900 micrograms per liter (ug/L) as compared to the April 2004 monitoring event. The concentration of TPH-G reported in MW2 decreased from 30,400 to 28,300 ug/L as compared to the last monitoring event, however has generally decreased as compared to the April 2001 (56,000 ug/L) and 2002 (66,700 ug/L) events. The

concentration of TPH-G measured in MW3 has continued to increase slightly since the July 2002 monitoring event, and has increased since the April 2004 event from 7,210 to 9,860 ug/L. The current TPH-G concentration reported in each well continues to exceed the California Regional Water Quality Control Board's (CRWQCB) July 2003 Tier 1 Environmental Screening Level (ESL) listed for this constituent, where shallow groundwater ≤10 feet below grade (fbg) beneath the site potentially is a domestic source of drinking water (100 ug/L). No CRWQCB – Municipal Supply Water Quality Objective (MSWQO) or Maximum Contaminant Level (MCL) currently exists for this constituent.

The concentration of methyl tertiary-butyl ether (MTBE) increased in MW1 from 85 ug/L (114 ug/L, as confirmed by EPA Method 8260) to 373 ug/L (303 ug/L, EPA 8260), and in MW2, from 112 ug/L (203 ug/l, EPA Method 8260) to 283 ug/L (373 ug/L, EPA Method 8260) as compared to the April 2004 event. Again, the MTBE concentrations measured in MW2 since January 2002 appear to remain relatively stable, fluctuating only slightly between 112 ug/l (April 2004) to 583 ug/l (April 2002). The highest reported concentration during this period occurred when the depth to groundwater was approximately 8.5 feet below grade. The MTBE concentration measured in MW3 has remained below the laboratory reporting limit (<0.5 ug/L) since October 2002, and continues to demonstrate a general decreasing trend. The MTBE concentrations measured in both MW1 and MW2 continue to exceed the CRWQCB's July 2003 Tier 1 ESL and Secondary MCL listed for this chemical constituent (5 ug/L).

The benzene concentration measured in the groundwater sample collected in MW1 decreased from 7,910 to 7,260 ug/L, and that in MW2 decreased from 3,750 to 2,540 ug/L, as compared with the April 2004 event. The benzene concentration measured in MW3 decreased significantly from 227 to 20.4 ug/L. The concentrations of toluene and ethylbenzene in MW1 have increased since the April 2004 event, while total xylenes have remained the same. The concentrations of toluene, ethylbenzene, and total xylenes measured in MW2 and MW3 have fluctuated slightly since the April 2004 event. The BTEX concentrations measured in each well continues to exceed the CRWQCB's Tier 1 ESL established for each constituent, where groundwater is potentially a threatened drinking water resource. Also the BTEX concentrations measured in MW1 and MW2 exceed the CRWQCB's Primary MCL value established for each constituent. Only the benzene concentration reported in MW3 (20.4 ug/L) exceeds the Primary MCL established for this constituent (1 ug/L). Respective Tier 1 ESL and MCL Values are tabulated at the end of Table 1.

The total concentration of Volatile Organic Compounds (VOCs) measured in MW1 has increased since the April 2004 event. The concentrations of 1,2-Dichloroethane (EDC) and 1,2-dibromoethane (EDB), reported in MW1 through MW3 remained below the respective laboratory reporting limit for each VOC constituent (≤100 ug/L for EDC and <50 ug/L for EDB) and do not appear to be constituents of concern at the site. The groundwater samples collected in MW1 and MW2 contained 303 and 373 ug/L MTBE (as confirmed by VOC

analyses), which were higher than the MTBE concentrations reported in these wells in April 2004. The samples collected in MW1 and MW3 contained 801 and 475 ug/L naphthalene (VOC), which exceeds the Tier 1 ESL listed for this constituent (21 ug/L). The concentration of napthalene at MW3 was 16 ug/L.

As requested by the ACHCSA in their letter dated September 8, 2003, 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 SW8020F, and VOCs by EPA Method 8260. Based on the non-detectable results (except MTBE) of Fuel Oxygenates analyses reported in well groundwater samples collected in October 2003, such constituents do not appear to be chemicals of concern at the site, and as suggested in the September 2003 letter, do not need to be incorporated into the current monitoring schedule and were not analyzed during the either the February, April, or July 2004 event. Monitoring of DO and ORP should be continued to further evaluate the biodegradation potential in the shallow groundwater beneath the site. Fourth Quarter 2004 monitoring activities were conducted at the site on October 22, 2004, a report of which is due on January 31, 2005, pursuant to the ACHCSA's June 3, 2004 Work Plan Approval Letter.

GeoTracker AB2886 EDF Upload

In general accordance with State Assembly Bill 2886, GGTR uploaded the fluid-level monitoring data associated with the July 19, 2004 event in electronic deliverable format to the State Water Resources Control Board's GeoTracker Database System. The GeoTracker Upload Confirmation Number is **3838657975**. An AB2886 Electronic Delivery confirmation report copy (GEO_Well) corresponding to submittal title Fluid-Level Monitoring Data (MW1-MW3) is included in the Appendix.

GGTR also uploaded all groundwater sample analytical results associated with the July 19, 2004 event in electronic deliverable format to the State GeoTracker Database System. The GeoTracker Upload Confirmation Number is **8948096632**. A confirmation report copy corresponding to Lab Number/Submittal Title 04-1099: 7/19/04 GW Analytical Data (MW1-MW3) is included in the Appendix.

Waste Management

The drummed well purge and equipment wash and rinse water (@ 23 gallons) generated during the July 2004 monitoring event was transferred directly to a D.O.T.-approved, 55-gallon drum. The drum was appropriately labeled and stored onsite in a secure area. To date, the drum remains onsite for storage use with future quarterly monitoring events and/or additional investigation activities. Upon transport and disposal of the drummed waste liquid to a State-licensed recycling facility, proper waste manifest documentation will be submitted to the ACHCSA.

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.

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

08/06/96 08/15/96	Underground storage tanks 1 and 2 were removed and samples recovered A work plan was submitted by GGTR for over excavation and disposal of gasoline-
06/15/90	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
10/20/00	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
404=700	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;
11/00/01	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 3 rd 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 1 st 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 2 nd 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 3 rd Quarter 2004 Monitoring and Sampling (MW1-MW3)
09/30/04	GGTR submits Additional Site Characterization Work Plan Addendum
	to the ACHCSA
11/11/04	GGTR submits July 19 2004 Groundwater Monitoring Report to the
	ACHCSA

Report Distribution

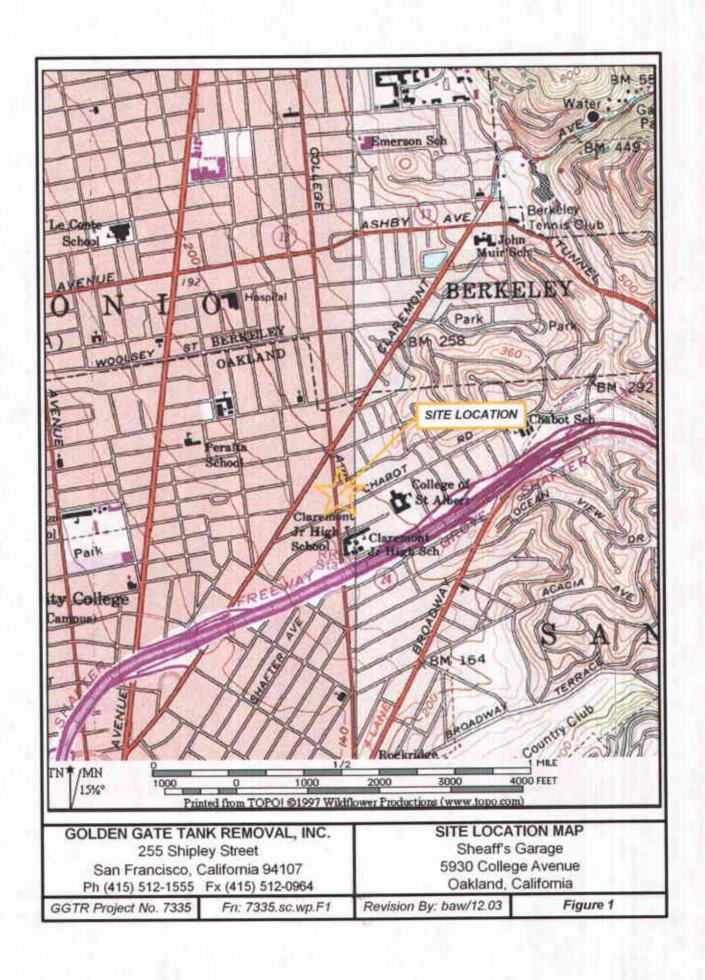
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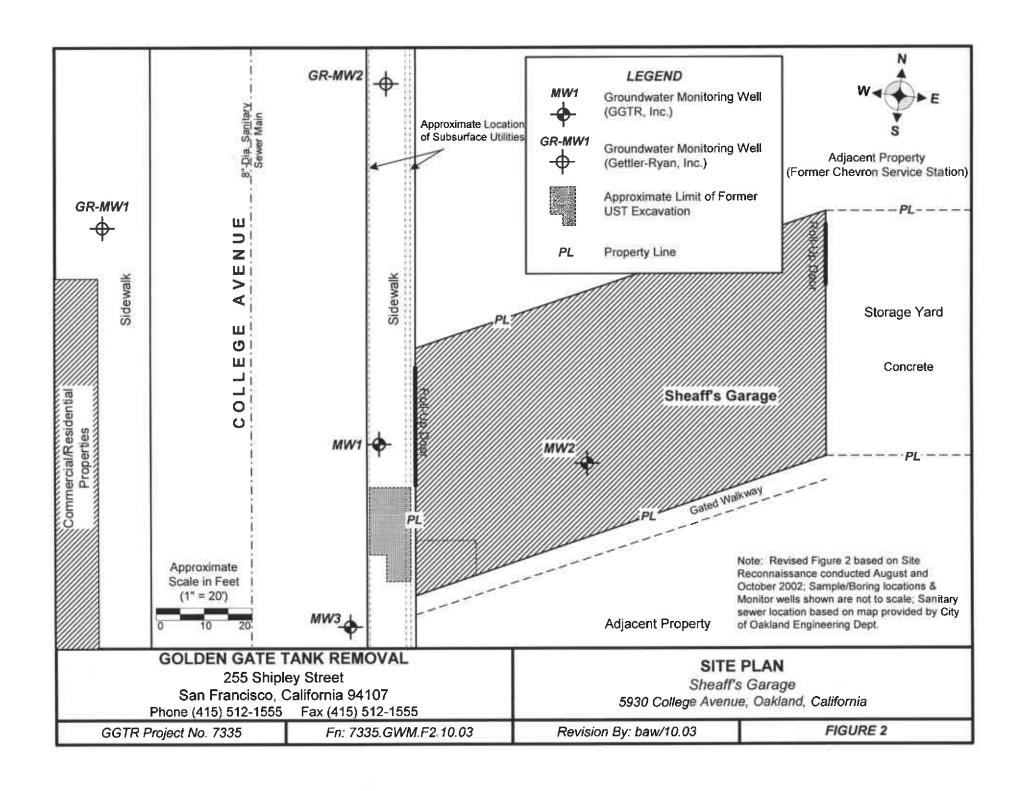
Alameda County Health Care Services Agency Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 Attention: Mr. Don Hwang

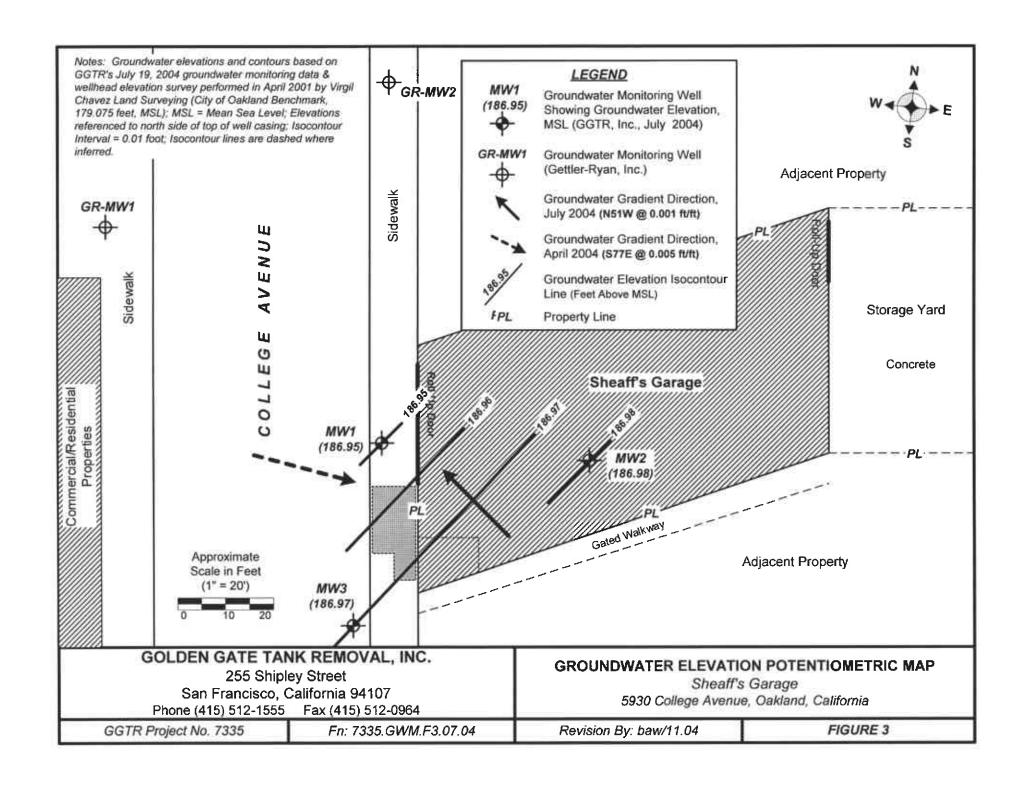
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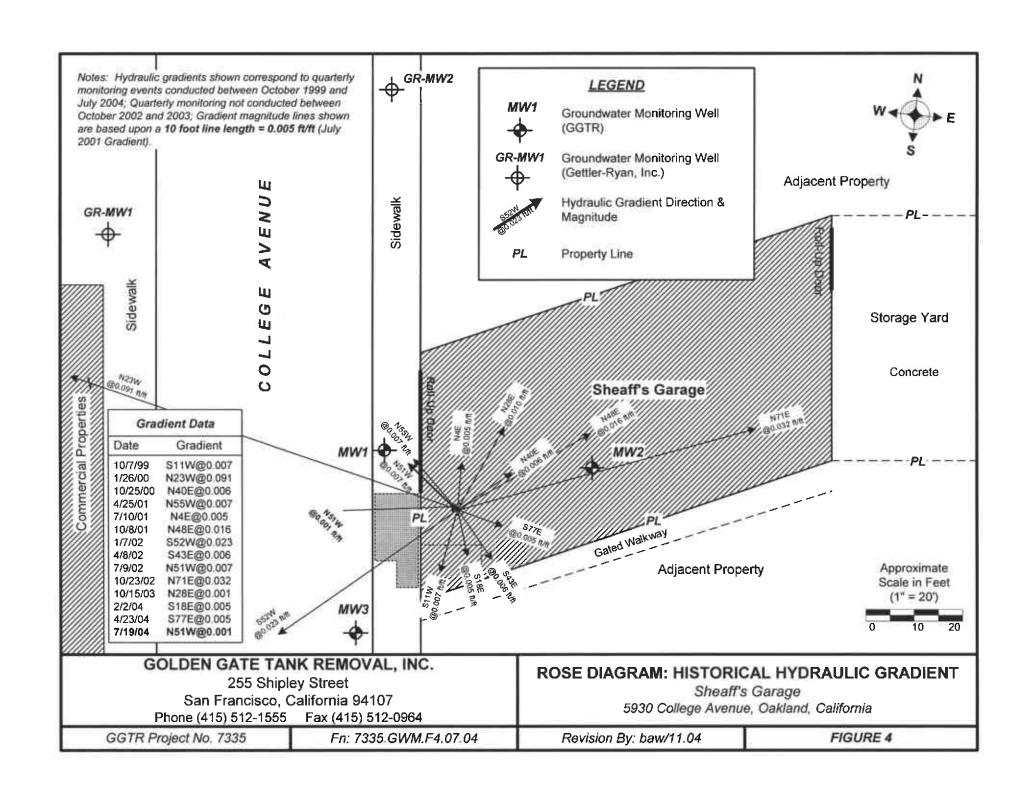


TABLE 1
Historical Results of Groundwater Sample Analysis & Fluid-Level Data
5930 College Avenue, Oakland, CA

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)
	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	355	1,100	20,000 / 13,000 / 3,800 / 17,000
	01/26/00	50.00	8.26	41.74	slight sheen	130,000	5+6		470	25,000 / 18,000 / 4,500 / 22,000
	10/25/00	50.00	10.10	39.90	odor	130,000	122	ND	1,300	23,000 / 12,000 / 3,900 / 18,000
	02/02/01	50.00 ¹	9.61	40.39	odor	128,000	22	- 22	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
MW1	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	(+0)	1995	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	22	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	199	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⁾	7260 /2270 / 2510 / 10,100
	Laboratory Reporting Limit						5,000	≤50	0.5(1)	0.5 / 0.5 / 0.5 / 1.0
		CRWQCB N	and the second second second	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which		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/I/E/X (ug/L)	
	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 ^t	7.85	43.57	none	42,000			560	9,300 / 2,200 / 2,300 / 7,700	
	10/25/00	51.42 ^t	11.57	39.85	slight/odor	31,000		ND	500	5,500 / 370 / 1,700 / 2,600	
	02/02/01	51.42 ^f	10.77	40.65	odor	36,000		OH 1	400	4,300 / 530 / 1,800 / 4,500	
	04/25/01	197.28	8.52	188.76	odor	56,000	1944	-	460	6,700 / 1700 / 2,600 / 8,200	
N. 677770	07/10/01	197.28	11.05	186.23	odor	39,000			180	6,200 / 730 / 2,300 / 6,100	
MW2	10/08/01	197.28	12.79	184.49	sheen/odor	40,700	- 2	3722	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	500		583 ³	10,200 / 2,670 / 3,840 / 13,200	
	07/09/02	197.28	10.55	186.73	slight odor	37,100	-	298 (MTBE)	303 (298 ³	5,340 / 890 / 2,110 / 6,920	
	10/23/02	197.28	13.85	183.43	none	13,300	344	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	- 44	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	100	10,284 19	283 (373 ³	2540 / 239 / 1320 / 2300	
		Laboratory R	Reporting I	imit		50	5,000	<50	0.5(1)	0.5 / 0.5 / 0.5 / 1.0	
		CRWQCB M	ISWQO (N	ICL)		NC	NC	Varies	5 11	1 / 150 / 700 / 1,750	
		CRWQCB J	July 2003 1	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)	
	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	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	199	ND	ND	100 / 2 / 120 / 130	
	02/02/01	49.39 1	8.73	40.66	slight odor	2,900	7,64		35	35 / 3 / 160 / 298	
	04/25/01	195.22	6.61	188.61	slight odor	8,400	164	5225	56	260 / 33 / 290 / 510	
	07/10/01	195.22	8.85	186.37	slight odor	12,000	92	- 549	35	39 / 10 / 690 / 1600	
MW3	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	1.00	195	81.7 3	723 / 138 / 492 / 887	
	04/08/02	195.22	6.33	188.89	odor	11,700	164	-	ND ³	540 / 108 / 706 / 1,710	
	07/09/02	195.22	8.56	186.66	odor	2,320	344	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	194	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	127	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	:	568.220	ND (ND 3)	20.4 / 3.2 / 30.6 / 117	
TB	02/02/04			NA	- 1977		- 124	244	-	ND/ND/ND/ND	
	04/23/04		NA				744	144	5744	ND/ND/ND/ND	
	07/19/04	W. (1944)					24	-	3/4	ND / ND / ND / ND	
		Laboratory l	Reporting L	imit		50	5,000	≤50	0.5(1)	0.5 / 0.5 / 0.5 / 1.0	
		CRWQCB N				NC	NC	Varies	5 11	1 / 150 / 700 / 1,750	
		CRWQCB				100/500	100/640	Varies	5/1,800	1.0 (46) / 40 (130) / 30 (290) / 13 (13	

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

TABLE 1 (Cont'd)

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

TABLE 1 NOTES (Cont'd):

- 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 cthylbenzene, 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)</p>
- 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)</p>
- 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)</p>
- 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)</p>

TABLE 1 (Cont'd)

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

TABLE 1 NOTES (Cont'd):

- 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-dibloroethane (EDC)</p>
- 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.
- 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)

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 1Environmental (Risk-Based) Screening Level; Levels shown are for **Groundwater < 10 fbg (3 meters)**, which IS / IS NOT a threatened drinking water resource.

APPENDIX

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

QUARTERLY GROUNDWATER MONITORING REPORT July 19, 2004

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

GGTR Project No. 7335 November 11, 2004



Case Narrative

Client: Golden Gate Tank Removal

Project: 5930 COLLEGE AVE., OAKLAND

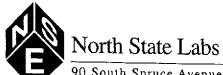
Lab No: 04-1099

Date Received: 07/19/2004

Date reported: 08/12/2004

Four water samples were analyzed for total petroleum hydrocarbons as gasoline by method 8015M, BTEX and MTBE by method 8021B, and VOCs by method 8260B GC/MS. No errors were noted during analysis. Results for quality control samples met all QC/QA criteria.

John A. Murphy



CERTIFICATE OF ANALYSIS

Lab Number:

04-1099

Client:

Golden Gate Tank

Project:

5930 COLLEGE AVE. OAKLAND

Date Reported: 08/12/2004

Gasoline, BTEX and MTBE by Methods 8015M/8021B

Analyte	Method	Result	Unit Date Sa	mpled Date Analyzed
Sample: 04-1099-01 Clier	nt ID: 7335-	MW-1	07/19/	-
Benzene	SW8020F	7260	UG/L	07/26/2004
Ethylbenzene	SW8020F	2510	UG/L	07/26/2004
Gasoline Range Organics	SW8020F	63900	UG/L	07/26/2004
Methyl-tert-butyl ether	SW8020F	*373	UG/L	07/26/2004
Toluene	SW8020F	2270	UG/L	07/26/2004
Xylenes	SW8020F	10100	UG/L	07/26/2004
Sample: 04-1099-02 Clien	nt ID: 7335-	-MW-2	07/19/	2004 W
Benzene	SW8020F	2540	UG/L	07/26/2004
Ethylbenzene	SW8020F	1320	UG/L	07/26/2004
Gasoline Range Organics	SW8020F	28300	UG/L	07/26/2004
Methyl-tert-butyl ether	SW8020F	*283	UG/L	07/26/2004
Toluene	SW8020F	239	UG/L	07/26/2004
Xylenes	SW8020F	2300	UG/L	07/26/2004
Sample: 04-1099-03 Clie	nt ID: 7335	-MW-3	07/19/	′2004 W
Benzene	SW8020F	20.4	UG/L	07/21/2004
Ethylbenzene	SW8020F	30.6	UG/L	07/21/2004
Gasoline Range Organics	SW8020F	9860	UG/L	07/21/2004
Methyl-tert-butyl ether	SW8020F	*ND<0.5	UG/L	07/21/2004
Toluene	SW8020F	3.2	UG/L	07/21/2004
Xylenes	SW8020F	117	UG/L	07/21/2004

^{*}Confirmed by GC/MS method 8260B.



CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number:

04-1099

Client:

Golden Gate Tank

Project:

5930 COLLEGE AVE, OAKLAND

Date Reported: 08/12/2004

Gasoline, BTEX and MTBE by Methods 8015M/8021B

Analyte 	Method	Reporting Unit Limit		Blank	Avg MS/MSD RE Recovery	
Gasoline Range Organics	SW8020F	50	UG/L	ND	68/87	25
Benzene	SW8020F	0.5	UG/L	ND	84/93	10
Toluene	SW8020F	0.5	UG/L	ND	90/97	7
Ethylbenzene	SW8020F	0.5	UG/L	ND	91/93	2
Xylenes	SW8020F	1.0	UG/L	ND	93/101	8
Methyl-tert-butyl ether	SW8020F	0.5	UG/L	ND	66/75	13

ELAP Certificate NO:1753 Reviewed and Approved

Laboratory Director

Page of 3



CERTIFICATE OF ANALYSIS

Job Number: 04-1099

Client

: Golden Gate Tank

Project : 5930 COLLEGE AVE. OAKLAND

Date Sampled : 07/19/2004

Date Analyzed: 07/27/2004 Date Reported: 08/12/2004

Volatile Organics by GC/MS Method 8260

Laboratory Number	04-1099-01	04-1099-02	04-1099-03
Client ID	7335-MW-1	7335-MW-2	7335-MW-3
Matrix	W	W	w
Analyte	UG/L	UG/L	UG/L
Bromochloromethane	ND<20	ND<10	ND<1
Dichlorodifluoromethane	ND<20	ND<10	ND<1
Chloromethane	ND<20	ND<10	ND<1
Vinyl chloride	ND<10	ND<5	ND<0.5
Bromomethane	ND<20	ND<10	ND<1
Chloroethane	ND<20	ND<10	ND<1
Trichlorofluoromethane	ND<20	ND<10	ND<1
1,1-Dichloroethene	ND<10	ND<5	NTD<0.5
Acetone	ND<200	ND<100	ND<10
Methylene chloride	ND<100	ND<50	ND<5
trans-1,2-Dichloroethene	ND<20	ND<10	ND<1
Methyl-tert-butyl ether	303	373	ND<0.5
1,1-Dichloroethane	ND<10	ND<5	ND<0.5
2,2-Dichloropropane	ND<20	ND<10	ND<1
cis-1,2-Dichloroethene	ND<20	ND<10	ND<1
2-Butanone	ND<100	ND<50	ND<5
Chloroform	ND<10	ND<5	ND<0.5
Carbon tetrachloride	ND<10	ND<5	ND<0.5
1,1-Dichloropropene	ND<20	ND<10	ND<1
Benzene	11200	3670	39.3
1,2-Dichloroethane	ND<20	ND<10	ND<1
Trichloroethene	ND<10	ND<5	ND<0.5
1,2-Dichloropropane	ND<20	ND<10	ND<1
Dibromomethane	ND<20	ND<10	ND<1
Bromodichloromethane	ND<20	ND<10	ND<1
trans-1,3-Dichloropropene	ND<20	ND<10	ND<1
4-Methyl-2-pentanone	ND<20	ND<10	ND<1
Toluene	2440	207	3.6
cis-1,3-Dichloropropene	ND<20	ND<10	ND<1
1,1,2-Trichloroethane	ND<20	ND<10	ND<1
Tetrachloroethene	ND<10	ND<5	ND<0.5
1,3-Dichloropropane	ND<20	ND<10	ND<1
2-Hexanone	ND<20	ND<10	ND<1
Dibromochloromethane	ND<20	ND<10	ND<1
1,2-Dibromoethane	ND<10	ND<5	ND<0.5
	*****	7477.47	1417/0.2

Comments:



CERTIFICATE OF ANALYSIS

Job Number: 04-1099

lient

: Golden Gate Tank

'roject : 5930 COLLEGE AVE. OAKLAND

Date Sampled : 07/19/2 004

Date Analyzed: 07/27/2 004
Date Reported: 08/12/2 004

Volatile Organics by GC/MS Method 8260

	Laboratory Number	04-1099-01	04-1099-02	04-1099-03
	Client ID	7335-MW-1	7335-MW-2	7335-MW-3
	Matrix	W	W	W
	Analyte	UG/L	UG/L	UG/L
	Chlorobenzene	ND<20	ND<10	ND<1
	1,1,1,2-Tetrachloroethane	ND<20	ND<10	ND<1
	Sthylbenzene	2730	1450	31
	Kylene, Isomers m & p	8410	2270	54
	o-Xylene	4130	133	4.3
	Styrene	ND<20	ND<10	ND<1
	Bromoform	ND<20	ND<10	ND<1
	Isopropylbenzene	89	73	27
	3romobenzene	ND<20	ND<10	ND<1
	1,1,2,2-Tetrachloroethane	ND<20	ND<10	2
	n-Propylbenzene	239	173	105
	2-Chlorotoluene	ND<20	ND<10	ND<1
	4-Chlorotoluene	ND<20	ND<10	ND<1
	1,3,5-Trimethylbenzene	507	316	48
	tert-Butylbenzene	ND<20	ND<10	ND<1
	1,2,4-Trimethylbenzene	1890	1070	204
	1,3-Dichlorobenzene	ND<20	ND<10	ND<1
	1,4-Dichlorobenzene	ND<20	ND<10	ND<1
	sec-Butylbenzene	ND<20	ND<10	ND<1
	1,2-Dichlorobenzene	ND<20	ND<10	ND<1
	n-Butylbenzene	ND<20	74	34
	Naphthalene	801	475	16
	1,2,4-Trichlorobenzene	ND<20	ND<10	ND<1
	Bexachlorobutadiene	ND<20	ND<10	ND<1
	1,2,3-Trichlorobenzene	ND<20	ND<10	ND<1
	1,2,3-Trichloropropane	ND<20	ND<10	ND<1
	Acetonitrile	ND<100	ND<50	ND<5
	Acrylonitrile	ND<20	ND<10	ND<1
	Isobutanol	ND<100	ND<50	ND<5
	1,1,1-Trichloroethane	ND<20	ND<10	ND<1
	SUR-Dibromofluoromethane	108	107	102
	SUR-Toluene-d8	98	97	95
	SUR-4-Bromofluorobenzene	104	103	100
	SUR-1,2-Dichloroethane-d4	105	108	110
ŀ		* * *		

Comments:



CERTIFICATE OF ANALYSIS

Job Number: 04-1099

Client

: Golden Gate Tank

Project : 5930 COLLEGE AVE. OAKLAND

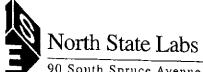
Date Sampled: 07/19/2004

Date Analyzed: 07/27/2004

Date Reported: 08/12/2004

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

Laboratory Number	04-1099	MC /MCD			
Client ID	Blank	MS/MSD	RPD	Recovery	RPD
Matrix	W	Recovery		Limit	Limit
	IV,	W			
Analyte	Results	%Recoveries			
	UG/L				
Bromochloromethane	ND<1				
Dichlorodifluoromethane	ND<1				
Chloromethane	ND<1				
Vinyl chloride	ND<0.5				
Bromomethane	ND<1				
Chloroethane	ND<1				
Trichlorofluoromethane	ND<1				_
1,1-Dichloroethene	ND<0.5	106/102	4	61-128	25
Acetone	ND<10	100/102	-1	01-120	25
Methylene chloride	ND<5				
trans-1,2-Dichloroethene	ND<1				
Methyl-tert-butyl ether	ND<0.5				
1,1-Dichloroethane	ND<0.5				
2,2-Dichloropropane	ND<1				
cis-1,2-Dichloroethene	ND<1				
2-Butanone	ND<5				
Chloroform	ND<0.5				
Carbon tetrachloride	ND<0.5				
1,1-Dichloropropene	ND<1				
Benzene	ND<0.5	117/122	4	74-135	21
1,2~Dichloroethane	ND<1	TT. (T. 2.	-34	14-133	21
Trichloroethene	ND<0.5	116/113	3	69-129	20
1,2-Dichloropropane	ND<1	110/111	3	09-129	20
Dibromomethane	ND<1				
Bromodichloromethane	ND<1				
trans-1,3-Dichloropropene	ND<1				
4-Methyl-2-pentanone	ND<1				
Toluene	ND<0.5	119/112	6	61-141	10
cis-1,3-Dichloropropene	ND<1	113/112	ь	61-141	19
1,1,2-Trichloroethane	ND<1				
Tetrachloroethene	ND<0.5				
1,3-Dichloropropane	ND<1				
2-Hexanone	ND<1				
Dibromochloromethane	ND<1				
1,2-Dibromoethane	ND<0.5				
Chlorobenzene	ND<1	175/110		70.400	
1,1,1,2-Tetrachloroethane	ND<1	115/110	4	70-139	19
Ethylbenzene	ND<0.5				
Xylene, Isomers m & p	ND<1				
o-Xylene	ND<1 ND<0.5				
Styrene	ND<1				
	MD/I				



(650) 266-4560

CERTIFICATE OF ANALYSIS

Number: 04-1099

Date Sampled: 07/19/2004

nt : Golden Gate Tank

Date Analyzed: 07/27/2004

ect : 5930 COLLEGE AVE. OAKLAND

Date Reported: 08/12/2004

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

atory Number	04-1099	MS/MSD	RPD	Recovery	RPD
.t ID	Blank	Recovery	MID	Limit	Limit
.x	W	W		DIMIC	DIMIC
/te	Results UG/L	%Recoveries			
form	ND<1				
opylbenzene	ND<1				
benzene	ND<1				
,2-Tetrachloroethane	ND<1				
pylbenzene	ND<1				
orotoluene	ND<1				
orotoluene	ND<1				
-Trimethylbenzene	ND<1				
Butylbenzene	ND<1				
-Trimethylbenzene	ND<1				
ichlorobenzene	ND<1				
ichlorobenzene	ND<1				
utylbenzene	ND<1				
ichlorobenzene	ND<1				
ylbenzene	ND<1				
halene	ND<1				
-Trichlorobenzene	ND<1				
hlorobutadiene	ND<1				
-Trichlorobenzene	ND<1				
-Trichloropropane	ND<1				
nitrile	ND<5				
onitrile	ND<1				
tanol	ND<5				
-Trichloroethane	ND<1				
ibromofluoromethane	104	109/110	1	67-129	21
oluene-d8	107	99/100	1	72-119	16
-Bromofluorobenzene	100	101/101	0	78-121	19
,2-Dichloroethane-d4	94	100/106	6	85-115	19 25

wed and Approved

A./Murphy atory Director



North State Labs

90 South Spruce Avenue, Suite W, South San Francisco, CA 94080 Phone: (650) 266-4563 Fax: (650) 266-4560

Chain of Custody / Request for Analysis
Lab Job No.: Page 1 of 1

Client: 60 UNEW 6 AT	ETANK	REMOVAL	Repo	rt to: BIZENT WITE	JUEZ		Phone	e: 415·4	-12·10	5 555		Turnaround Time
Mailing Address:			Billing	to:			Fax:	415.0	312·0°	364		THT GO
255 SHIPLEY 5	_	بمنخو	>	SAME			email				Date:	D7-19.04
5F CA 9410) 7						PO#	737	5		Samp	ler: K.A.
Project / Site Address				Requested	sis XX	3.00 J		<u>ئ</u> ر آھ				EDF 💢
Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	9	3/	80/					Field Point ID
7335-MW-1	G.W.	4/4015	HCI	7-19.04/1210	X	X						7375-MW-1
7335 - MW-Z			1	1/1135	X	×	= =					7335-MW-7
7335 - MW-3	<i>▶</i>	<u> </u>		1045	乂	×			•			7335-MW-3
7335-TB	DI HZU	2/1045		7 / 0800			X					7335-TB
												
						<u> </u>						
						-						
Relinquished by: VAN	477. NG	120	Da	te: 7-19-84 Time: 17	2.3.S	Receive	d by	<u> </u>		MI	7	Lab Comments/
Relinquished by:	NIMA	1717	Da		<i>J/</i>)	Receive		//e~	/ / C	UNI		Hazards
Relinquished by:			Da	te: Time:		Received	d by:					

QA/QC Report Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 04-1099 Date: 08/12/2004

Page: 16

QC Batch:

072748260W

Analysis:

Volatile Organic Compounds by GC/MS

Matrix:

Method:

Water

SW8260B

Lab Samp ID: BLK

Prep Meth: SW5030B

Basis:

Analysis Date: 07/27/2004

Prep Date: 07/27/2004

Basis: Wet		Notes:					
Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Acetone	5.850	10.	PQL		ND	UG/L	1
Acetonitrile	2.069	5.	PQL		ND	UG/L	1
Acrylonitrile	0.354	1.	PQL		ND	UG/L	1
Benzene	0.176	0.5	PQL		ND	UG/L	1
Bromochloromethane	0.255	1.	PQL		ND	UG/L	1
Bromodichloromethane	0.147	1.	PQL		ND	UG/L	1
Bromoform	0.219	1.	PQL		ND	UG/L	1
Bromomethane	0.132	1.	PQL		ND	UG/L	1
2-Butanone	1.417	5.	PQL		ND	UG/L	1
Carbon tetrachloride	0.148	0.5	PQL		ND	UG/L	1
Chlorobenzene	0.101	1.	PQL	l I	ND	UG/L	1
Dibromochloromethane	0.148	1.	PQL		ND	UG/L	1
Chloroethane	0.232	1.	PQL	\	ND	UG/L	1
Chloroform	0.158	0.5	PQL	į	ND	UG/L	1
Chloromethane	0.363	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.216	0.5	PQL	l	ND	UG/L	1
Dibromomethane	0.176	1.	PQL]	ND	UG/L	1
1,2-Dichlorobenzene	0.150	1.	PQL	Ì	ND	UG/L	
1,3-Dichlorobenzene	0.130	1.	PQL	1	ND	UG/L	
1,4-Dichlorobenzene	0.122	1.	PQL		ND	UG/L	
Dichlorodifluoromethane	0.411	1.	PQL		ND	UG/L	
1,1-Dichloroethane	0.110	0.5	PQL	1	ND	UG/L	
1,2-Dichloroethane	0.167	1.	PQL		ND	UG/L	
1,1-Dichloroethene	0.139	0.5	PQL		ND	UG/L	
trans-1,2-Dichloroethene	0.084	1.	PQL		ND	UG/L	
1,2-Dichloropropane	0.197	1.	PQL		ИD		
cis-1,3-Dichloropropene	0.158	1.	PQL	.	ND		
trans-1,3-Dichloropropene	0.320	1.	PQL		ND		
Ethylbenzene	0.378		PQL	-	ND	UG/	L 1
Hexachlorobutadiene	0.641		PQL	1	ND	UG/	L 1

QA/QC Report Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 04-1099 Date: 08/12/2004

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QC Batch:

072748260W

Matrix: Water Lab Samp ID: BLK

Analysis Date: 07/27/2004

Basis:

Wet

Analysis: Volatile Organic Compounds by GC/MS

Method: SW8260B Prep Meth: SW5030B

Prep Date: 07/27/2004

Notes:

Dasis. Wet		Notes:					
Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
2-Hexanone	0.295	1.	PQL		ND	UG/L	1
Isobutanol	1.296	5.	PQL		ND	UG/L	1
Isopropylbenzene	0.125	1.	PQL		ND	UG/L	1
Methylene chloride	0.692	5.	PQL		ND	UG/L	1
4-Methyl-2-pentanone	0.354	1.	PQL		ND	UG/L	1
Naphthalene	0.785	1.	PQL		ND	UG/L	1
Styrene	0.109	1.	PQL		ND	UG/L	1
1,1,1,2-Tetrachloroethane	0.138	1.	PQL		ND	UG/L	1
1,1,2,2-Tetrachloroethane	0.355	1.	PQL		ND	UG/L	1
Tetrachioroethene (PCE)	0.084	0.5	PQL		ND	UG/L	1
Toluene	0.478	0.5	PQL	l	ND	UG/L	1
1,2,4-Trichlorobenzene	0.207	1.	PQL	 •	ND	UG/L	1
1,1,1-Trichloroethane	0.29	1.	PQL		ND	UG/L	1
1,1,2-Trichloroethane	0.172	1.	PQL	•	ND	UG/L	1
Trichloroethene (TCE)	0.120	0.5	PQL		ND	UG/L	1
Trichlorofluoromethane	0.092	1.	PQL	1	ďИ	UG/L	1
1,2,3-Trichloropropane	0.269	1.	PQL		ND	UG/L	1
Vinyl chloride	0.360	0.5	PQL	1	ND	UG/L	1
o-Xylene	0.319	0.5	PQL		ND	UG/L	1
Bromobenzene	0.627	1.	PQL	1	ND	UG/L	1
n-Butylbenzene	0.166	1.	PQL		ND	UG/L	. 1
sec-Butylbenzene	0.743	1.	PQL		ND	UG/L	. 1
tert-Butylbenzene	0.099	1.	PQL	Ì	ND	UG/L	. 1
2-Chiorotoluene	0.089	1.	PQL		ND	UG/L	. 1
4-Chlorotoluene	0.061	1.	PQL	1	ND	UG/L	. 1
cis-1,2-Dichloroethene	0.094	1.	PQL		ND	UG/L	. 1
1,3-Dichloropropane	0.160	1.	PQL	ļ	ND	UG/L	_ 1
2,2-Dichloropropane	0.675	1.	PQL		ND	UG/L	_ 1
1,1-Dichloropropene	0.058	1.	PQL		ND	UG/L	_ 1
Methyl-tert-butyl ether (MTBE)	0.314	0.5	PQL	.	ND	UG/l	_ 1

QA/QC Report Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 04-1099 Date: 08/12/2004

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QC Batch:

072748260W

Analysis:

Volatile Organic Compounds by GC/MS

Matrix:

SW8260B

Water

Lab Samp ID: BLK

Method:

Prep Meth: SW5030B

Analysis Date: 07/27/2004

Prep Date: 07/27/2004

Basis: wet		Notes:						
Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil	
n-Propylbenzene	0.300	1,	PQL		ND	UG/L	1	
1,2,3-Trichlorobenzene	0.56	1.	PQL		ND	UG/L	1	
1,2,4-Trimethylbenzene	0.644	1.	PQL		ND	UG/L	1	
1,3,5-Trimethylbenzene	0.644	1.	PQL		ND	UG/L	1	
Xylene, Isomers m & p	0.771	1.	PQL		ND	UG/L	1	
SURROGATE AND INTERNAL STAND	ARD RECOV	ERIES:	•					
4-Bromofluorobenzene		78-121	SLSA		100%			1
Toluene-d8		72-119	SLSA		107%			1
Dibromofluoromethane		67-129	SLSA		104%			1
1,2-Dichloroethane-d4		8 5-115	SLSA	.	94%			1

QA/QC Report Matrix Spike/Duplicate Matrix Spike Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 04-1099 Date: 08/12/2004

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QC Batch:

072748260W

Matrix:

Water

Lab Samp ID: 1117-01MS

Basis:

Wet

Project Name: Lab Generated or Non COE Sample

Project No.:

Lab Generated or Non COE Sample

Field ID:

Lab Generated or Non COE Sample

Lab Ref ID:

04-1117-01

		0.9	- 1 44491	Commis	Snike	Result			% R€	ecove	ries		Accept Crite	
	Analysis Method	Spik MS	e Level DMS	Sample Result	MS	DMS	Units			DMS		% R	ec	RPD
Analyte			20.0	ND	21.2	20.3	UG/L	ww	106	102	3.8	128-61	MSA	25MSP
1,1-Dichloroethene	SW8260B	20.0]	24.4	25.3	UG/L	ww	117	122	4.2	135-74	MSA	21 MSP
Benzene	SW8260B	20.	20.	ND I	23.	22.	UG/L	ww	115	110	4.4	139-70	MSA	19MSP
Chlorobenzene	SW8260B	20.	20.	1	23.7	22.3	UG/L	ww	119	112	6.1	141-61	MSA	19MSP
Toluene	SW8260B	20.0	20.0	ND		22.5	UG/L	ww	116	113	2.6	129-69	MSA	20MSP
Trichloroethene (TCE)	SW8260B	20.0	20.0	ND	23.1		PERCENT		100	106	5.8	115-85	SLSA	25 SLSP
1,2-Dichloroethane-d4	SW8260B	100.	100.	101.	100.	106.	PERCENT		101	101	0.00	121-78	SLSA	19SLSP
4-Bromofluorobenzene	SW8260B	100.	100.	101.	101.	101.	1				0.91	129-67	SLSA	21SLSP
	SW8260B	100,	100.	106.	109.	110.	PERCENT	1	109	110				16SLSP
Dibromofluoromethane	SW8260B	100.	100.	99.	99.	100.	PERCENT	ww	99.0	100	1.0	119-72	SLSA	TOGLOF
Toluene-d8	34402000													

North State Environmental, South San Francisco, CA

Lab Report No.: 04-1099 Date: 08/12/2004

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							Pa	ge: 4
Project Name: Project No:	5930 COLLEGE AVE. 04-1099		Analysis: Method: Prep Meth	SW	EX/Gasoline Rang 8020F 5030B	ge Organi	cs (SW	3020/8015)
Field ID: Descr/Location: Sample Date: Sample Time: Matrix: Basis:	7335-TB 7335-TB 07/19/2004 0800 Water Wet		Rec'd Date Prep Date	e: (e: (Date: (04-1099-04 07/19/2004 07/21/2004 07/21/2004 07/21/4MGBXW			
Analyte		Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Benzene		0.076	0.5 P	QL		ND	UG/L	1
Toluene		0.160	0.5 P	QL		ND	UG/L	1
Ethylbenzene		0.215	0.5 P	QL		ND	UG/L	1
Xylenes		0.211	1.0 P	QL		ND	UG/L	1

Approved by: _____ Date: ____

QA/QC Report Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 04-1099 Date: 08/12/2004

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QC Batch: 07214MGBXW Analysis: BTEX/Gasoline Range Organics Matrix: Water

Method: SW8020F Lab Samp ID: BLK Prep Meth: SW5030B Analysis Date: 07/21/2004 Prep Date: 07/21/2004 Basis:

Wet Notes:

		. 10100	·•				
Analyte	Det Limit	Rep Lim	it	Note	Result	Units	Pvc Dil
Gasoline Range Organics	4.066	50.	PQL		ND	UG/L	1
Benzene	0.076	0.5	PQL]	ND	UG/L	! -
Toluene	0.160	0.5	PQL				1
Ethylbenzene	0.215	0.5 0.5	PQL		ND	UG/L	1
Xylenes	0.213				ND	UG/L	1
Methyl-tert-butyl ether (MTBE)		1.0	PQL		ND	UG/L	1
y total author (IVI) DL)	0.088	0.5	PQL		ND	UG/L	1

QA/QC Report Matrix Spike/Duplicate Matrix Spike Summary

North State Environmental, South San Francisco, CA

Date: 08/12/2004 Lab Report No.: 04-1099

QC Batch:

07214MGBXW

Matrix:

Water

Lab Samp ID: 1118-03MS

Basis:

Xylenes

Wet

Project Name: Lab Generated or Non COE Sample Lab Generated or Non COE Sample Project No.: Lab Generated or Non COE Sample Field ID:

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Lab Ref	ID:	04-1118	3-03
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Basis: Wet												,	Accept Crite	
	Analysis	- 1	ce Level	Sample	Spike MS	e Result DMS	Units			ecover DMS I		% Re		RPD
Analyte	Method	MS	DMS	Result	83.5	93.2	UG/L	ww	83.5	93.2	11	123-59	MSA	21MSP
Benzene	SW8020F	100.0	100.0	ND ND	90.5	93.2	UG/L	ww	90.5	93.2	2.9	130-76	MSA	15MSP
Ethylbenzene	SW8020F	100.0	100.0	205.	882.	1070.	UG/L	ww	67.7	86.5	24	133-64	MSA	25MSP
Gasoline Range Organics	SW8020F	1000.	1000.	ND	65.8	75.2	UG/L	ww	65.8		13		MSA	28MSP 11MSP
Methyl-tert-butyl ether (MTBE)	SW8020F	100.0	100.0 100.0	ND	90.1	96.7	UG/L	ww	90.1	96.7	7.1	119-75	MSA MSA	11 MSP
Toluene	SW8020F	100.0	300.	1.6	280.	306.	UG/L	ww	92.8	101	8.5	129-78	NISA	1114101
Videnag	SW8020F	300.	300.											

Lab Report No.: 04-1099 Date: 08/12/2004

Page: 1

Date:

Project Name: Project No:	5930 COLLEGE AVE. 04-1099		Analysi Method Prep M	l: SV	「EX/Gasoline Ra W8020F W5030B	inge Organi	cs (SW8	9020/8015)
Field ID: Descr/Location: Sample Date: Sample Time: Matrix: Basis:	7335-MW-1 7335-MW-1 07/19/2004 1210 Water Wet		Rec'd I Prep D	Date: ate: is Date:	04-1099-01 07/19/2004 07/26/2004 07/26/2004 07/214MGBXW DG			
Analyte		Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
		4.066 0.076 0.160 0.215 0.211 0.088	2500. 25. 25. 25. 25. 50. 25.	PQL PQL PQL PQL PQL PQL	GI	63900 7260 2270 2510 10100 373	UG/L UG/L UG/L UG/L UG/L UG/L	50 50 50 50 50 50

Approved by:

Lab Report No.: 04-1099 Date: 08/12/2004

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Volatile Organic Compounds by GC/MS Analysis: Project Name: 5930 COLLEGE AVE. Project No: Method: SW8260B 04-1099 Prep Meth: SW5030B Lab Samp ID: 04-1099-01 Field ID: 7335-MW-1 Rec'd Date: 07/19/2004 Descr/Location: 7335-MW-1 07/27/2004 Prep Date: Sample Date: 07/19/2004 Analysis Date: 07/27/2004 Sample Time: 1210 072748260W QC Batch: Matrix: Water Notes: DG Basis: Wet Units Pvc Dil Result Note Det Limit Rep Limit Analyte UG/L 20 ND PQL 200. 5.850 Acetone UG/L 20 ND 2.069 100. PQL Acetonitrile 20 ND UG/L PQL 20. 0.354 Acrylonitrile 20 UG/L 11200 PQL ΕM Benzene 0.176 10. 20 ND UG/L PQL Bromochloromethane 0.255 20. UG/L 20 ND 20. PQL Bromodichloromethane 0.147 20 ND UG/L 0.219 20. **PQL** Bromoform 20 ND UG/L PQL 20. Bromomethane 0.132 UG/L 20 ND 100. **PQL** 1.417 2-Butanone ND UG/L 20 PQL 0.148 10. Carbon tetrachloride 20 UG/L ND 20. PQL 0.101 Chiorobenzene 20 ND UG/L PQL 0.148 20. Dibromochloromethane 20 UG/L ND PQL 20. Chloroethane 0.232 20 UG/L ND PQL 10. Chloroform 0.158 20 ND UG/L **PQL** 20. Chloromethane 0.363 20 UG/L ND PQL 0.216 10. 1,2-Dibromoethane ND UG/L 20 POL Dibromomethane 0.176 20. 20 ND UG/L 20. PQL 0.150 1,2-Dichlorobenzene 20 ND UG/L 1,3-Dichlorobenzene 0.130 20. PQL UG/L 20 ND PQL 0.122 20. 1,4-Dichlorobenzene 20 ND UG/L 20. PQL 0.411 Dichlorodifluoromethane 20 ND UG/L **PQL** 10. 1.1-Dichloroethane 0.110 UG/L 20 **PQL** ND 20. 0.167 1.2-Dichloroethane UG/L 20 ND **PQL** 1,1-Dichloroethene 10. 0.139 20 ND UG/L PQL 20. 0.084 trans-1,2-Dichloroethene 20 ND UG/L PQL 20. 0.197 1,2-Dichloropropane UG/L 20 ND 20. PQL 0.158 cis-1,3-Dichloropropene 20 ND UG/L PQL 20. 0.320 trans-1,3-Dichloropropene DG: Reporting limits elevated due to sample dilution EM: Compound quantitated at a 200x dilution factor

Approved by: _____ Date: _____

Lab Report No.: 04-1099 Date: 08/12/2004 Page: 6

Volatile Organic Compounds by GC/MS Project Name: 5930 COLLEGE AVE. Analysis: Project No: 04-1099 Method: SW8260B Prep Meth: SW5030B Field ID: 7335-MW-1 Lab Samp ID: 04-1099-01 Descr/Location: 7335-MW-1 Rec'd Date: 07/19/2004 07/27/2004 Sample Date: 07/19/2004 Prep Date: Sample Time: 1210 Analysis Date: 07/27/2004 Matrix: Water QC Batch: 072748260W Basis: Wet Notes: DG Units Pvc Dil Result Analyte Note Det Limit Rep Limit Ethylbenzene PQL EΜ 2730 UG/L 20 0.378 10. PQL UG/L 20 Hexachlorobutadiene ND 0.641 20. 2-Hexanone PQL ND UG/L 20 0.295 20. UG/L isobutanol ND 20 1.296 100. PQL Isopropylbenzene 20. **PQL** 89. UG/L 20 0.125 UG/L 20 Methylene chloride 0.692 100. PQL. ND ND UG/L 20 4-Methyl-2-pentanone 0.354 20. PQL Naphthalene 801. UG/L 20 PQL 0.785 20. 20 Styrene ND UG/L 0.109 20. PQL ND UG/L 20 1,1,1,2-Tetrachloroethane 0.138 20. PQL ND UG/L 20 1,1,2,2-Tetrachloroethane 0.355 20. PQL Tetrachioroethene (PCE) ND UG/L 20 0.084 10. PQL 20 Toluene 0.478 PQL FΜ 2440. UG/L 10. UG/L 20 1,2,4-Trichlorobenzene 0.207 20. PQL ND 1,1,1-Trichloroethane PQL ND UG/L 20 0.29 20. 20 1,1,2-Trichloroethane PQL ND UG/L 0.172 20. PQL ND UG/L 20 Trichloroethene (TCE) 0.120 10. UG/L 20 Trichiorofluoromethane 0.092 20. **PQL** ND 1,2,3-Trichloropropane PQL ND UG/L 20 0.269 20, 20 Vinyl chloride **PQL** ND UG/L 0.360 10. o-Xylene PQL **EM** 4130. UG/L 20 0.319 10. Bromobenzene ND UG/L 20 20. PQL 0.627 20 ND UG/L n-Butvibenzene 0.166 20. PQL 20 UG/L sec-Butylbenzene 20. PQL ND 0.743 tert-Butylbenzene PQL ND UG/L 20 0.099 20. ND UG/L 20 2-Chlorotoluene 20. PQL 0.089 PQL UG/L 20 4-Chlorotoluene ND 0.061 20. ND UG/L 20 cis-1,2-Dichloroethene 0.094 20. **PQL**

DG: Reporting limits elevated due to sample dilution EM: Compound quantitated at a 200x dilution factor

Approved by:	Date:	
Approved by:	Duto.	

Lab Report No.: 04-1099 Date: 08/12/2004

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Project Name: Project No:	5930 COLLEGE AVE. 04-1099		Analysi Method		olatile Organic Co V8260B	ompounds b	y GC/M	S	
			Prep M	eth: SV	V5030B				
Field ID:	7335-MW-1		Lab Sa	mn ∤D∙	04-1099-01				
Descr/Location:	7335-MW-1		Rec'd E	•	07/19/2004				
Sample Date:	07/19/2004		Prep D		07/27/2004				
Sample Time:	1210		•		07/27/2004				
Matrix:	Water		QC Bat		072748260W				
Basis;	Wet		Notes:		DG				
Analyte	· ·	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil	
1,3-Dichloroprop		0.160	20.	PQL		ND	UG/L	20	
2,2-Dichloroprop	ane	0.675	20.	PQL		ND	UG/L	20	
1,1-Dichloroprop		0.058	20.	PQL		ND	UG/L	20	
Methyl-tert-butyl	ether (MTBE)	0.314	10.	PQL	EM	303.	UG/L	20	
n-Propylbenzene		0.300	20.	PQL		239.	UG/L	20	
1,2,3-Trichlorobe	nzene	0.56	20.	PQL		ND	UG/L	20	
1,2,4-Trimethylbe	enzene	0.644	20.	PQL	EM	1890.	UG/L	20	
1,3,5-Trimethylbe	enzene	0.644	20.	PQL		507.	UG/L	20	
Xylene, Isomers		0.771	20.	PQL	EM	8410.	UG/L	20	
SURROGATE A	ND INTERNAL STANDA	ARD RECOV	ERIES:	- CAL		0410	UGIL		
4-Bromofluorobe	nzene		78-121	SLSA	•	104%			
Toluene-d8			72-119	SLSA		98%			
Dibromofluorome	ethane		67-129			108%			
1,2-Dichloroetha	ne-d4		85-115			105%			
DG: Reporting lin	mits elevated due to san	nnle dilution	00 110	OLUA		105%		.	
EM: Compound	quantitated at a 200x dil	npie unution							

Approved by: _____ Date: ____

Lab Report No.: 04-1099 Date: 08/12/2004

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Project Name:

5930 COLLEGE AVE.

Analysis:

BTEX/Gasoline Range Organics (SW8020/8015)

Project No:

04-1099

Method: SW8020F

Prep Meth: SW5030B

Field ID:

7335-MW-2

Lab Samp ID: 04-1099-02

Descr/Location: Sample Date:

7335-MW-2 07/19/2004

Rec'd Date:

07/19/2004

Sample Time:

1135

Prep Date:

07/26/2004 Analysis Date: 07/26/2004

Matrix: Basis:

Water Wet

QC Batch: Notes:

07214MGBXW DG

Analyte	Det Limit	Det Limit Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	4.066	1000.	PQL		28300.	UG/L	20
Benzene	0.076	10.	PQL	1	2540.	UG/L	20
Toluene	0.160	10.	PQL]	239.	UG/L	20
Ethylbenzene	0.215	10.	PQL		1320.	UG/L	20
Xylenes	0.211	20.	PQL		2300	UG/L	20
Methyl-tert-butyl ether (MTBE)	0.088	10.	PQL	GI	283	UG/L	20

DG: Reporting limits elevated due to sample dilution

GI: Analyte confirmed by GC/MS

Approved by:	Date:	
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Lab Report No.: 04-1099 Date: 08/12/2004

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Project Name: Project No:

5930 COLLEGE AVE.

04-1099

Analysis:

Volatile Organic Compounds by GC/MS

Method:

SW8260B

Prep Meth: SW5030B

Field ID: Descr/Location:

Sample Date:

7335-MW-2 7335-MW-2

07/19/2004

Sample Time: Matrix: Basis:

1135 Water Lab Samp ID: 04-1099-02 Rec'd Date:

07/19/2004

Prep Date:

07/27/2004 Analysis Date: 07/27/2004 072748260W

QC Batch:

Basis: Wet		QC E Note:		072748260W DG			
Analyte	Det Limit	Rep Lin	nit	Note	Result	Units	Pvc Dil
Acetone	5.850	100.	PQL		ND	UG/L	10
Acetonitrile	2.069	50.	PQL		ND	UG/L	10
Acrylonitrile	0.354	10.	PQL		ND	UG/L	10
Benzene	0.176	5.	PQL	EL.	3670.	UG/L	10
Bromochloromethane	0.255	10.	PQL		ND	UG/L	10
Bromodichloromethane	0.147	10.	PQL		ND	UG/L	10
Bromoform	0.219	10.	PQL		ND	UG/L	10
Bromomethane	0.132	10.	PQL		ND	UG/L	10
2-Butanone	1.417	50.	PQL		ND	UG/L	10
Carbon tetrachloride	0.148	5.	PQL		ND	UG/L	10
Chlorobenzene	0.101	10.	PQL		ND	UG/L	10
Dibromochloromethane	0.148	10.	PQL		ND	UG/L	10
Chloroethane	0.232	10.	PQL		ND	UG/L	10
Chloroform	0.158	5.	PQL		ND	UG/L	10
Chloromethane	0.363	10.	PQL		ND	UG/L	10
1,2-Dibromoethane	0.216	5.	PQL]	ND	UG/L	10
Dibromomethane	0.176	10.	PQL		ND	UG/L	10
1,2-Dichlorobenzene	0.150	10.	PQL	-	ND	UG/L	10
1,3-Dichlorobenzene	0.130	10.	PQL		ND	UG/L	
1,4-Dichlorobenzene	0.122	10.	PQL		ND	UG/L	10
Dichlorodifluoromethane	0.411	10.	PQL		ND ND	UG/L	10
1,1-Dichloroethane	0.110	5.	PQL		ND ND		10
1,2-Dichloroethane	0.167	10.	PQL			UG/L	10
1,1-Dichloroethene	0.139	5.	PQL		ND	UG/L	10
trana 1 0 Diebless at	5,139	J.	FULL		ND	UG/L	10

PQL

PQL

PQL

PQL

ND

ND

ND

ND

UG/L

UG/L

UG/L

UG/L

10

10

10

10

DG: Reporting limits elevated due to sample dilution EL: Compound quantitated at a 100x dilution factor

trans-1,2-Dichloroethene

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

1,2-Dichloropropane

Approved by:	
	Date:

10.

10.

10.

10.

0.084

0.197

0.158

0.320

Lab Report No.: 04-1099 Date: 08/12/2004

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Project Name: 5930 COLLEGE AVE. Analysis: Volatile Organic Compounds by GC/MS Project No: 04-1099 Method: SW8260B Prep Meth: SW5030B Field ID: 7335-MW-2 Lab Samp ID: 04-1099-02 Descr/Location: 7335-MW-2 Rec'd Date: 07/19/2004 Sample Date: 07/19/2004 Prep Date: 07/27/2004 Sample Time: 1135 Analysis Date: 07/27/2004 Matrix: Water QC Batch: 072748260W Basis: Wet Notes: DG Analyte Det Limit Rep Limit Note Result Units Pvc Dil Ethylbenzene 0.378 5. PQL EL 1450. UG/L 10 Hexachlorobutadiene 0.641 10. **PQL** ND UG/L 10 2-Hexanone 0.295 10. **PQL** ND UG/L 10 Isobutanol 1.296 50. **PQL** ND UG/L 10 Isopropylbenzene 0.125 10. PQL. 73 UG/L 10 Methylene chloride 0.692 50. PQL ND UG/L 10 4-Methyl-2-pentanone 0.354 10. PQL ND UG/L 10 Naphthalene 0.785 10. PQL 475 UG/L 10 Styrene 0.109 10. PQL ND UG/L 10 1,1,1,2-Tetrachloroethane 0.138 10. PQL ND UG/L 10 1,1,2,2-Tetrachloroethane 0.355 10. **PQL** ND UG/L 10 Tetrachloroethene (PCE) 0.084 5. **PQL** ND UG/L 10 Toluene 0.478 5. **PQL** 207. UG/L 10 1,2,4-Trichlorobenzene 0.207 10. PQL ND UG/L 10 1,1,1-Trichloroethane 0.29 10. **PQL** ND UG/L 10 1,1,2-Trichloroethane 0.172 10. **PQL** ND UG/L 10 Trichloroethene (TCE) 0.120 5. PQL ND UG/L 10 Trichlorofluoromethane 0.092 10. **PQL** ND UG/L 10 1,2,3-Trichloropropane 0.269 10. PQL ND UG/L 10 Vinyl chloride 0.360 5. PQL ND UG/L 10 o-Xylene 0.319 5. PQL 133 UG/L 10 Bromobenzene 0.627 10. PQL ΝĎ UG/L 10 n-Butylbenzene 0.166 10. PQL 74. UG/L 10 sec-Butylbenzene 0.743 10. PQL ND UG/L 10 tert-Butylbenzene 0.099 10. PQL ND UG/L 10 2-Chlorotoluene 0.089 10. PQL ND UG/L 10 4-Chlorotoluene 0.061 10. POL ND UG/L 10 cis-1,2-Dichloroethene 0.094 10. **PQL** ND UG/L 10 DG: Reporting limits elevated due to sample dilution EL: Compound quantitated at a 100x dilution factor

Approved by: ______ Date: _____

Lab Report No.: 04-1099 Date: 08/12/2004

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Project Name: Project No:	5930 COLLEGE AVE. 04-1099		Analysi Method Prep M	l: SV	olatile Organic Co V8260B V5030B	ompounds b	y GC/M	S	
Field ID: Descr/Location: Sample Date: Sample Time: Matrix: Basis:	7335-MW-2 7335-MW-2 07/19/2004 1135 Water Wet		Rec'd I Prep D	ate: s Date:	04-1099-02 07/19/2004 07/27/2004 07/27/2004 07/2748260W DG				
Analyte		Det Limit	Rep Limit		Note	Result	Units	Pvc Dil	
1,3-Dichloroprop		0.160	. 10.	PQL		ND	UG/L	10	
2,2-Dichloropropa		0.675	10.	PQL		ND	UG/L	10	
1,1-Dichloroprop		0.058	10.	PQL		ND	UG/L	10	
Methyl-tert-butyl		0.314	5.	PQL	EL	373.	UG/L	10	
n-Propylbenzene	3	0.300	10.	PQL		173	UG/L	10	
1,2,3-Trichlorobe		0.56	10.	PQL		ND	UG/L	10	
1,2,4-Trimethylbe		0.644	10.	PQL	EL	1070.	UG/L	10	
1,3,5-Trimethylbe		0.644	10.	PQL		316.	UG/L	10	
Xylene, Isomers	m & p	0.771	10.	PQL	EL	2270.	UG/L	10	
4-Bromofluorobe	ND INTERNAL STANDA	ARD RECOV							
	nzene		78-121	SLSA		103%			
Toluene-d8			72-119	SLSA		97%			
Dibromofluorome	=		67-129	SLSA		107%			
1,2-Dichloroetha	ne-d4		85-115	SLSA		108%			
DG: Reporting lin	nits elevated due to san uantitated at a 100x dilu	nple dilution				10070	·-··		

Approved by: _____ Date: _____

Lab Report No.: 04-1099 Date: 08/12/2004

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Project Name: Project No:	5930 COLLEGE AVE. 04-1099		Analys Method Prep M	d: SV	EX/Gasoline Rar V8020F V5030B	nge Organi	cs (SW8	020/8015)			
Field ID: Descr/Location:	7335-MW-3			amp ID:	04-1099-03						
Sample Date:	7335-MW-3 07/19/2004			Rec'd Date: 07/19/2004							
Sample Time:	1045	Prep Date: 07/21/2004 Analysis Date: 07/21/2004									
Matrix:	Water		QC Ba		07/21/2004 07214MGBXW						
Basis:	Wet		Notes		U/Z14WGBAW						
Analyte		Det Limit	Rep Limi	t	Note	Result	Units	Pvc Dil			
Gasoline Range	Organics	4.066	50.	PQL		9860	UG/L				
Benzene		0.076	0.5	PQL		20.4	UG/L	1			
Toluene		0.160	0.5	PQL		32	UG/L	1			
Ethylbenzene		0.215	0.5	PQL		306	UG/L	1			
Xylenes		0.211	1.0	PQL		117.	UG/L	1			
Methyl-tert-butyl	ether (MTBE)	0.088	0.5	PQL	GI	ND	UG/L	1			
GI: Analyte confi	irmed by GC/MS	<u>.</u>			<u> </u>						

Approved by: ______ Date: _____

Lab Report No.: 04-1099 Date: 08/12/2004

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Project Name:

5930 COLLEGE AVE.

Project No:

04-1099

Analysis:

Volatile Organic Compounds by GC/MS

Method:

SW8260B

Prep Meth: SW5030B

Field ID:

7335-MW-3

Descr/Location: 7335-MW-3 Sample Date:

07/19/2004

Sample Time: Matrix:

Basis:

1045

Water Wet

Lab Samp ID: 04-1099-03

Rec'd Date:

07/19/2004

Prep Date:

07/27/2004

QC Batch:

Analysis Date: 07/28/2004 072748260W

Notes:

Analyte	Det Limit	Rep Limi	t	Note	Result	Units	Pvc Dil
Acetone	5.850	10.	PQL		ND	UG/L	1
Acetonitrile	2.069	5.	PQL		ND	UG/L	1
Acrylonitrile	0.354	1.	PQL		ND	UG/L	1
Benzene	0.176	0.5	PQL		39.3	UG/L	1
Bromochloromethane	0.255	1.	PQL		ND	UG/L	1
Bromodichloromethane	0.147	1.	PQL		ND	UG/L	1
Bromoform	0.219	1.	PQL		ND	UG/L	1
Bromomethane	0.132	1.	PQL		ND	UG/L	1
2-Butanone	1.417	5.	PQL		ND	UG/L	1
Carbon tetrachloride	0.148	0.5	PQL		ND	UG/L	1
Chlorobenzene	0.101	1.	PQL		ND	UG/L	1
Dibromochloromethane	0.148	1.	PQL		ND	UG/L	1
Chloroethane	0.232	1,	PQL		ND	UG/L	1
Chloroform	0.158	0.5	PQL	1	ND	UG/L	1
Chloromethane	0.363	1.	PQL	1	ND	UG/L	1
1,2-Dibromoethane	0.216	0.5	PQL		ND	UG/L	1
Dibromomethane	0.176	1.	PQL		ND	UG/L	1
1,2-Dichlorobenzene	0.150	1.	PQL	1	ND	UG/L	1
1,3-Dichlorobenzene	0.130	1.	PQL		ND	UG/L	, 1
1,4-Dichlorobenzene	0.122	1.	PQL		ND	UG/L	1
Dichlorodifluoromethane	0.411	1.	PQL		ND	UG/L	1
1,1-Dichloroethane	0.110	0.5	PQL	1	ND	UG/L	1
1,2-Dichloroethane	0.167	1.	PQL		ND	UG/L	1
1,1-Dichloroethene	0.139	0.5	PQL		ND	UG/L	1
trans-1,2-Dichloroethene	0.084	1.	PQL	1	ND	UG/L	1
1,2-Dichloropropane	0.197	1.	PQL	1	ND	UG/L	1
cis-1,3-Dichloropropene	0.158	1.	PQL	1	ND	UG/L	
trans-1,3-Dichloropropene	0.320	1.	PQL		ND	UG/L	
Ethylbenzene	0.378	0.5	PQL		31.	UG/L	
Hexachlorobutadiene	0.641	1.	PQL		ND	UG/L	

Approved by:	Date:	

Lab Report No.: 04-1099 Date: 08/12/2004

1,1-Dichloropropene

Methyl-tert-butyl ether (MTBE)

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Project Name: 5930 COLLEGE AVE. Analysis: Volatile Organic Compounds by GC/MS Project No: 04-1099 Method: SW8260B Prep Meth: SW5030B Field ID: 7335-MW-3 Lab Samp ID: 04-1099-03 Descr/Location: 7335-MW-3 Rec'd Date: 07/19/2004 Sample Date: 07/19/2004 Prep Date: 07/27/2004 Sample Time: 1045 Analysis Date: 07/28/2004 Matrix: Water QC Batch: 072748260W Basis: Wet Notes: Analyte Det Limit Rep Limit Result Note Units Pvc Dil 2-Нехаполе 0.295 1. PQL ND UG/L 1 Isobutanol 1.296 PQL 5. ND UG/L 1 Isopropylbenzene 0.125 1. PQL 27. UG/L 1 Methylene chloride 0.692 5. **PQL** ND UG/L 1 4-Methyl-2-pentanone 0.354 1. **PQL** ND UG/L 1 Naphthalene 0.785 1. **PQL** 16 UG/L 1 Styrene 0.109 1. **PQL** ND UG/L 1 1,1,1,2-Tetrachloroethane 0.138 1. **PQL** ND UG/L 1 1,1,2,2-Tetrachloroethane 0.355 1. **PQL** 2 UG/L 1 Tetrachloroethene (PCE) 0.084 0.5 **PQL** ND UG/L 1 Toluene 0.478 0.5 PQL 36 UG/L 1 1,2,4-Trichlorobenzene 0.207 PQL 1. ND UG/L 1 1,1,1-Trichloroethane 0.29 1. PQL ND UG/L 1 1,1,2-Trichloroethane 0.172 1. PQL ND UG/L 1 Trichloroethene (TCE) 0.120 0.5 PQL ND UG/L 1 Trichlorofluoromethane 0.092 PQL 1. ND UG/L 1 1,2,3-Trichloropropane 0.269 1. PQL ND UG/L 1 Vinyl chloride 0.360 0.5 **PQL** ND UG/L 1 o-Xylene 0.319 0.5 PQL 43 UG/L 1 Bromobenzene 0.627 1. PQL ND UG/L 1 n-Butylbenzene 0.166 1. **PQL** 34. UG/L 1 sec-Butylbenzene 0.743 1. **PQL** ND UG/L 1 tert-Butylbenzene 0.099 PQL 1. ND UG/L 1 2-Chlorotoluene 0.089 1. **PQL** ND UG/L 1 4-Chlorotoluene 0.061 1. PQL ND UG/L 1 cis-1,2-Dichloroethene 0.094 1. PQL ND UG/L 1 1,3-Dichloropropane 0.160 1. **PQL** ND UG/L 1 2,2-Dichloropropane 0.675 1. PQL ND UG/L 1

Approved by:	Date:	

1.

0.5

PQL

PQL

ND

ND

UG/L

UG/L

1

1

0.058

0.314

Lab Report No.: 04-1099 Date: 08/12/2004

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Project Name: Project No:	5930 COLLEGE AVE. 04-1099		Analysis Method Prep Me	: SV	latile Organic Com V8260B V5030B	npounds by	y GC/MS	3	
Field ID:	7335-MW-3		Lab Sa	mp ID:	04-1099-03				
Descr/Location:	7335-MW-3		Rec'd D		07/19/2004				
Sample Date:	07/19/2004		Prep Da		07/27/2004				
Sample Time:	1045		-		07/28/2004				
Matrix:	Water		QC Bat	ch:	072748260W				
Basis:	Wet		Notes:						
Analyte		Det Limit	Rep Limit		Note	Result	Units	Pvc Dil	
n-Propylbenzene)	0.300	1.	PQL	El	105.	UG/L	1	
1,2,3-Trichlorobe	enzene	0.56	1.	PQL		ND	UG/L	1	
1,2,4-Trimethylb	enzene	0.644	1.	PQL	EI	204	UG/L	1	
1,3,5-Trimethylb	enzene	0.644	1.	PQL		48.	UG/L	1	
Xylene, Isomers	m&p	0.771	1.	PQL		54	UG/L	1	
	ND INTERNAL STAND	ARD RECOV	ERIES:	٠					
4-Bromofluorobe	enzene		78-121	SLSA	ı	100%			
Toluene-d8			72-119	SLSA	.	95%			
Dibromofluorom	ethane		67-129	SLSA		102%			
1,2-Dichloroetha	ane-d4		85-115	SLSA	\	110%			
El: Compound o	quantitated at a 10x dilut	ion factor		- •					_

approved by:	Date:	
4F. 0 10 G PJ.	Daio.	



90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 26 -4560

CERTIFICATE OF ANALYSIS

Lab Number:

04-1099

Client:

Golden Gate Tank

Project:

5930 COLLEGE AVE. OAKLAND

Date Reported: 08/12/2004

Gasoline, BTEX and MTBE by Methods 8015M/8021B

nalyte	Method	Result	Unit Date Sa	ampled Date Analyze	d
ample: 04-1099-04	Client ID: 7335-	TB	07/19/	2004 W	
enzene	SW8020F	ND<0.5	UG/L	07/21/ 2004	-
thylbenzene	SW8020F	ND<0.5	UG/L	07/21/ 2004	
'oluene	SW8020F	ND<0.5	UG/L	07/21/ 2004	
ylenes	SW8020F	ND<1.0	UG/L	07/21/ 2004	

^{*}Confirmed by GC/MS method 8260B.

Laboratory Report Project Overview EDF 1.2a

Laboratory:

North State Environmental, South San Francisco, CA

Lab Report Number:

04-1099

Project Name:

5930 COLLEGE AVE.

Work Order Number:

04-1099

Control Sheet Number:

T0600102112

Case Narrative

North State Environmental, South San Francisco, CA

Report Date: 08/12/2004	Project:	5930 COLLEGE AVE.
Report Number: 04-1099	Order #:	04-1099
		THE PARTY OF THE P

Four water samples were analyzed for total petroleum hydrocarbons as gasoline by method 8015M, BTEX and MTBE by method 8021B, and VOCs by method 8260B GC/MS. No errors were noted during analysis. Results for quality control samples met all QC/QA criteria.

Approved by: _______ Date: ______ 8/12/09

Report	Summary
--------	---------

Report S	Summary			22	Anmcode	Exmcode	Logdate	Extdate	Anadate	Labiotcti	Run Sub
Labreport	Sampid	Labsampid	Mtrx			SW5030B	07/19/200	07/26/200	07/26/200	07214MGBXW	1
4-1099	7335-MW-1	04-1099-01	W	CS	SW8020F	`	4	4 07/27/200	4 07/27/200	072748260W	1
)4-1099	7335-MW-1	04-1099-01	W	CS	SW8260B	SW5030B	07/19/200 4	4	4	-	
	7335-MW-2	04-1099-02	w	cs	SW8020F	SW5030B	07/19/200 4	07/26/200 4	07/26/200 4	07214MGBXW	1
)4-1099		04-1099-02	w	CS	SW8260B	SW5030B	07/19/200	07/27/200	07/27/200	072748260W	1
04-1099	7335-MW-2			cs	SW8020F	SW5030B	4 07/19/200	4 07/21/200	4 07/21/200	07214MGBXW	1
04-1099	7335-MW-3	04-1099-03	W				4 07/19/200	4 07/27/200	4 07/28/200	072748260W	1
04-1099	7335-MW-3	04-1099-03	W	CS	SW8260B	SW5030B	4	4	4	07214MGBXW	1
	7335-TB	04-1099-04	W	cs	SW8020F	SW5030B	07/19/200 4	07/21/200 4	07/21/200 4		
04-1099	.002	04-1117-01	W	NC	SW8260B	SW5030B	11	07/27/200 4	07/27/200 4	072748260W	1
			w	NC	SW8020F	SW5030B	11	07/21/200	07/22/200	07214MGBXW	1
		04-1118-03			SW8020F	SW5030B	11	4 07/21/200	4 07/21/200	07214MGBXW	1
		BLK	w				11	4 07/27/200	4 07/27/200	072748260W	1
		BLK	W	LB1	SW8260B	SW5030B	·	4	4		1
		1117-01MS	W	MS	1 SW8260B	SW5030B	11	07/27/200 4	4		
		1118-03MS	w	MS	1 SW8020F	SW5030B	11	07/21/200 4	07/22/200 4	07214MGBXW	1
			w	SD	1 SW8260B	SW5030B	11	07/27/200	07/27/200	072748260W	1
		1117-01MSD				SW5030B	11	4 07/21/200	4 07/22/200	07214MGBXW	/ 1
		1118-03MSD	W	SD	1 SW8020F	24420300	, ,	4	4		

NORTH STATE LABS

FLUID-LEVEL MONITORING DATA

Project No:		7335		Date	: 07.19.04
Project/Site	e Location: _	5930	COWEGE	AVE (DAKIAND CA
Technician	: <u> </u>	ATKIN	150N	Method:	ELECTRONIC
Well	Water -	Product	Thickness	Total Well Depth (feet)	
mw-l	8,95			14.65	
	10.30			19.80	@1000
WM-20	8.15			19.00	@ 0995
			, , , , , , , , , , , , , , , , , , , ,		
		T			

Measurements referenced to top of well casing. NORTH

Page	1	of	1_

NORTH STATE LABS

WELL PURGING/SAMPLING DATA

Project Number:	7335	Date:	91.FO_	·04	
Project / Site Location:	5930 COLLEGE	the .			
	DACIMIS CA				<u> </u>
Sampler/Technician:	KIAN ATKINGON	<u> </u>			-
Casing Diameter (inches)		0.75	2	4	6
Casing Volumes (gallons)		0.02	0.2	0.7	1.52

Well No. MW-(-	Well No. MW-7
A. Total Well Depth	14.65	A. Total Well Depth
B. Depth To Water	395	B. Depth To Water
C. Water Height (A-B)	5.70	C. Water Height (A-B)
D. Well Casing Diameter	2	D. Well Casing Diameter
E. Casing Volume	٠٧	E. Casing Volume
F. Single Case Volume (CxE)	1.14	F. Single Case Volume (
G. Case Volume(s)(CxEx)	3.42	G. Case Volume(s)(Cx
H. 80% Recharge Level		H. 80% Recharge Level

A. Total Well Depth	17.80
B. Depth To Water	10-30
C. Water Height (A-B)	9.50
D. Well Casing Diameter	2
E. Casing Volume	٠٧
F. Single Case Volume (CxE)	1.70
G. Case Volume(s)(CxEx)	5.70
H. 80% Recharge Level	12.20

Purge Event	
Start Time: 1150	
Finish Time: \200	
Post Purge Measurement	
Depth to Water 900	
Time Measured: (200)	
Recharge/Sample Time	
Depth to Water: 9.95	
Time Measured: 1740	

Purge Event	
Start Time: 1115	
Finish Time: 1130	
Post Purge Measurement	
Depth to Water: \04\	
Time Measured: 1\30	
Recharge/Sample Time	
Depth to Water: 10.30	
Time Measured: 1135	

	Well F	luid Para	meters:			
Gals.	0	1-5	2.5	3.5		
pН	6.65	6.63	6.64	665		
T (°C)	20.6	199	19.5	19.6		
Cond.	712	688	689	180		
DO mg/L	.66					
DO %	7.2					
Turbidity						
ORP	-046					
Summary Data:						
Total Ga	Total Gallons Purged: 3.5					
Purge de	Purge device: bc.60					
Samplin	g Device:	D157. F	3A14OZ			
Sample	Sample Collection Time: 1210					
Sample	Appearan	ce/Odor: c	VEAR PE	TR MIDE		

Well Fluid Parameters:					
Gals.	٥	2	ч	لها	
pН	6.38	6.42	6.45	647	
T (°C)	19.7	19.5	19-1	19.0	
Cond.	7.67	784	781	179	
DO mg/L	.61				
DO %	6.7				
Turbidity					
ORP	-012				
Summary Data:					
Total Ga	allons Purg	çed: 6			
Purge de	evice: 📐	40			
Samplin	g Device:	1515D. B	AIVER		
		Time: 113			
Sample Appearance/Odor: CUEATE PETE. HYD.					

NORTH STATE LABS

WELL PURGING/SAMPLING DATA

Project Nu	mber:	73	35		Date	. F0 :	19.04	
		cation: 5930 COLLEGE			E AUC			
			ALLLANI	S CA				
Sampler/	l'echnicia	m: KiA	J ATKI	~50~				
Casing Diag	neter (incl	nes)			0.75	2	4	6
Casing Vol	umes (gall	ons)	1		0.02	0.2	0.7	1.52
Well No.	wn.	3			Well No.			
A. Total V	Vell Depth	l	19.0	$\overline{\mathcal{Q}}$	A. Total W	ell Depth		
	B. Depth To Water & 25			B. Depth T				
C. Water				75		eight (A-B)		
D. Well C		meter	7			sing Diameter		
E. Casing		(CF)	1 7	5	E. Casing V		Turn	
F. Single						ase Volume (C Volume(s)(Cxl		
	G. Case Volume(s)(CxEx) 6 45 H. 80% Recharge Level 10-40				charge Level	-		
11. 007011	ound of	0101	1 10	<u> </u>	111.0070110	Diange Zovez	<u>!</u> .	
D Z.					Dune Eur	4		
Purge Ev Start Tim		-			Purge Ever Start Time			
Finish Ti					Finish Time:			
	ze Measur	ement			 	Measuremen	ut	
	Water 8				Depth to W			
	asured: 10				Time Meas	sured:		
	/Sample T					Sample Time		
	Water: 8				Depth to V			
Time Me	asured: ১৫	ソイグ			Time Meas	sured:		
i	Woll E	luid Para	motores		,	Well Fluid	Parameters:	
<u> </u>	VY CII F	IOTO L'SER	meters:	т		WEN FRUIT	alameters.	
Gals.	O	1.5	3.5	le.5	Gals.			
pН	6.28	4.23	6.20	6.25	pH			
T (°C)	18.9	18.7	18.4	18.4	T(°C)			
Cond.	327	259	261	280.	Cond.			
DO mg/L	OF.	İ			DO mg/L			
DO %	7.7				DO %			
Turbidity					Turbidity			
ORP	053				ORP			
Summa	y Data:			!	Summary	y Data:		
Total Ga	llons Purg	ged: ७.5			Total Gal	lons Purged:		
Purge de	vice: Do	60			Purge dev	rice:		
Samplin	g Device:	D157, BAI	457		Sampling	Device:		
Sample	Collection	Time: 10	45		Sample C	Collection Time	e;	
Sample	Annearano	e/Odor: a	1 -	2	Sample A	nnearance/Od	OF:	

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Submittal Title: 04-1099: 07/19/04 GW Analytical Data (MW1-MW3)

Submittal Type: GW Monitoring Report

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SHEAFFS SERVICE GARAGE

5930 COLLEGE AVE OAKLAND, CA 94618 Regional Board - Case #: 01-2296

SAN FRANCISCO BAY RWQCB (REGION 2) - (BG)

Local Agency (lead agency) - Case #: 514

ALAMEDA COUNTY LOP - (AG)

CONF#

8948096632

TITLE

04-1099: 07/19/04 GW Analytical Data (MW1-MW3)

QUARTER

Q3 2004

SUBMITTED BY Tracy Wallace **SUBMIT DATE**

11/11/2004

STATUS PENDING REVIEW

SAMPLE DETECTIONS REPORT

FIELD POINTS SAMPLED

FIELD POINTS WITH DETECTIONS

FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL

SAMPLE MATRIX TYPES

3 WATER

3

METHOD QA/QC REPORT

METHODS USED

SW8020F,SW8260B

TESTED FOR REQUIRED ANALYTES?

MISSING PARAMETERS NOT TESTED:

- SW8020F REQUIRES ETBE TO BE TESTED
- SW8020F REQUIRES TAME TO BE TESTED
- SW8020F REQUIRES DIPE TO BE TESTED
- SW8020F REQUIRES TBA TO BE TESTED
- SW8260B REQUIRES ETBE TO BE TESTED
- SW8260B REQUIRES TAME TO BE TESTED - SW8260B REQUIRES DIPE TO BE TESTED
- SW8260B REQUIRES TBA TO BE TESTED

LAB NOTE DATA QUALIFIERS

γ

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS METHOD HOLDING TIME VIOLATIONS

LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT LAB BLANK DETECTIONS

DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?

- LAB METHOD BLANK

- MATRIX SPIKE

- MATRIX SPIKE DUPLICATE

- BLANK SPIKE

n

n

0

https://esi swrch ca gov/ah2886/mload adf / nam2+amm folda-1000710070

- SURROGATE SPIKE - NO	N-STANDARD SURROGATE USED		N		
WATER SAMPLES FOR	8021/8260 SERIES				
MATRIX SPIKE / MATRIX SPI	KE DUPLICATE(S) % RECOVERY BET	WEEN 65-135%	Y		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%					
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%					
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%					
SOIL SAMPLES FOR 80	021/8260 SERIES				
MATRIX SPIKE / MATRIX SP	IKE DUPLICATE(S) % RECOVERY BET	rween 65-135%	n/a		
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%					
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%					
BLANK SPIKE / BLANK SPIK	E DUPLICATES % RECOVERY BETWE	EN 70-130%	n/a		
FIELD QC SAMPLES					
	COLLECTED	DETECTIONS	> REPDL		
SAMPLE					
SAMPLE OCTB SAMPLES	N	0			
SAMPLE QCTB SAMPLES QCEB SAMPLES	N N	0			

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