March 3, 2006

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject: Former Val Strough Chevrolet
327 34th Street, Oakland, California
Site ID #3035, RO#0000134

Dear Mr. Hwang:

This letter is to accompany the *Fourth Quarter 2005 Groundwater Monitoring Report* for the above-referenced site previously sent to your attention by ETIC Engineering, Inc. of Pleasant Hill, California.

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

If you have any questions, please contact Thomas E. Neely of ETIC Engineering, Inc. at (925) 602-4710, ext. 17.

Sincerely,

Don Strough

cc: Mr Thomas E. Neely, ETIC Engineering, Inc , 2285 Morello Avenue, Pleasant Hill, California 94523
Mr. Gregory Brandt, Esq , Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607
Mr. Jonathan Redding, Esq , Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607

3 March 2006

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Subject: Former Val Strough Chevrolet
327 34th Street, Oakland, California
Site ID #3035, RO#0000134

Dear Mr. Hwang:

This letter is to accompany the *Work Plan for Well Installation and Remediation Enhancements* for the above-referenced site previously sent to your attention by ETIC Engineering, Inc. of Pleasant Hill, California.

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

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ETIC ENGINEERING

3 March 2006

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Alameda, California 94502-6577

Subject: Former Val Strough Chevrolet
327 34th Street, Oakland, California
Site ID #3035, RO#0000134

Dear Mr. Hwang:

Attached for your review and comment is a copy of the *Fourth Quarter 2005 Groundwater Monitoring Report* for the above-referenced site. ETIC Engineering, Inc. of Pleasant Hill, California, is submitting the attached report on behalf of the owner of the property. The signed letter from the owner of the property will be submitted under separate cover.

If you have any questions or require further information, please contact me at (925) 602-4710, ext. 17.

Sincerely,
ETIC Engineering, Inc.

Thomas E. Neely, PG, CHG, REA II
Senior Project Manager

Attachment

cc: Mr. Don Strough, Strough Family Trust, P O. Box 489, Orinda, California 94563
Mr. Gregory Brandt, Esq., Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607
Mr. Jonathan Redding, Esq., Wendel Rosen Black & Dean, 1111 Broadway, 24th Floor, Oakland, California 94607

ETIC ENGINEERING

FOURTH QUARTER 2005
GROUNDWATER MONITORING REPORT

FORMER VAL STROUGH CHEVROLET
327 34th STREET
OAKLAND, CALIFORNIA

Prepared For:

Mr. Don Strough
Strough Family Trust of 1983
P.O. Box 489
Orinda, California 94563

Prepared By:

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523

3 March 2006

ETIC ENGINEERING

Fourth Quarter 2005
Groundwater Monitoring Report

Former Val Strough Chevrolet
327 34th Street
Oakland, California

3 March 2006

Prepared for:

Mr. Don Strough
Strough Family Trust of 1983
P.O. Box 489
Orinda, California 94563

Prepared by:

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523

Tracy Iob
Project Geologist

Thomas E. Neely, PG, CHG, REA II
Senior Project Manager

REGISTERED GEOLOGIST
THOMAS E. NEELY
Exp. 9/30/07
No. 7652
STATE OF CALIFORNIA

TABLE OF CONTENTS

List of Figures

List of Tables

List of Appendixes

SITE CONTACTS

Site Name:	Former Val Strough Chevrolet
Site Address:	327 34th Street Oakland, California
Consultant:	ETIC Engineering, Inc. 2285 Morello Ave. Pleasant Hill, CA 94523 (925) 602-4710
ETIC Project Manager:	Thomas E. Neely, PG, CHG, REA II
Regulatory Oversight:	Don Hwang Alameda County Health Care Services Agency (ACHCSA) 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577 (510) 567-6746

1.0 INTRODUCTION

At the request of the Strough Family Trust of 1983, ETIC Engineering, Inc. has prepared this *Fourth Quarter 2005 Groundwater Monitoring Report* for the former Val Strough Chevrolet site located in Oakland, California. This report documents the procedures and findings of the 12 December 2005 groundwater monitoring event. This report summarizes operational data for the dual phase extraction (DPE) system at the site. Groundwater monitoring data and well construction details are shown on the figures and presented in the tables. Groundwater monitoring protocols, field data, and analytical results are provided in the appendixes.

1.1 GENERAL SITE INFORMATION

Site name:	Former Val Strough Chevrolet
Site address:	327 34th Street, Oakland, California
Current property owner:	Strough Family Trust of 1983
Current site use:	Automotive Dealership and Service Center
Current phase of project:	Groundwater monitoring, DPE system operation
Tanks at site:	Two former tanks (1 gasoline, 1 waste-oil) removed in 1993
Number of wells:	7 (all onsite), DPE from well MW2
Site ID #:	3035
RO #:	0000134

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

Site Location and Land Use: The former Val Strough Chevrolet site is currently an active Honda automobile dealership and service center located on the southwestern corner of the intersection of Broadway (Auto Row) and 34th Street (Figure 1). The property is located south of Interstate 580. Land use in the area is primarily commercial.

The site is situated approximately 2 miles east of San Francisco Bay at approximately 61 feet above mean sea level (msl) (EDR, 2003). The land surface in the vicinity slopes toward the south. The nearest surface water body is Lake Merritt, located approximately 1 mile south of the site (Figure 1).

Site Features: The site consists of a multi-level building and an adjacent parking lot (Figure 2). The former fuel dispenser and underground storage tanks (USTs) were located in the northwestern portion of the site. Seven groundwater monitoring wells are located at the site. Construction details for the wells are presented in Table 1.

Underground Utilities: A box culvert for a former tributary of Glen Echo Creek is located approximately 17 feet below ground surface (bgs) in the eastern portion of the site (Figure 2). The culvert consists of a reinforced concrete box measuring 5 feet by 6 feet. During the winter of 1983, a section of the culvert collapsed and was replaced with a 5-foot-diameter pipeline.

Sanitary sewer, electrical, and natural gas utilities are generally present at depths less than two feet bgs at the site. Approximately 40 feet north of the site, along the northern edge of 34th Street, a storm sewer pipeline flows toward the east and into the box culvert. Sanitary sewer lines run parallel to both 34th Street and Broadway, north and east of the site, respectively. A lateral pipeline located along the western edge of the site connects to the sanitary sewer line below 34th Street. Natural gas service is located on the east side of the property. Water service appears to enter the site from the north.

Water Supply Well Search: A 2003 report compiled by EDR indicates that there are no federal U.S. Geological Survey wells and no public water supply wells located within a 1-mile radius of the site. No water supply wells were identified by the Alameda County Department of Public Works within a ½-mile radius of the site (ETIC, 2003).

2.2 SUMMARY OF PREVIOUS INVESTIGATIONS AND MONITORING ACTIVITIES

As presented in previous reports, the USTs were removed and multiple investigations, including the installation of seven groundwater monitoring wells, were conducted. In addition, a routine groundwater monitoring program has been in place since 1993. The following paragraphs summarize the findings of these activities.

Site Hydrogeology: In general, the site is underlain by silt and clay to depths ranging from approximately 15 to 20 feet bgs. Silty sand and fine-grained sand interbedded with thin clay layers are encountered from approximately 20 feet bgs to the total explored depth of 35 feet bgs.

The depth to groundwater beneath the site has ranged from approximately 17 to 23 feet bgs. As shown in the modified rose diagram on Figure 2, the direction of groundwater flow is generally toward the southwest to south-southwest, with an average hydraulic gradient of approximately 0.02 to 0.03 foot/foot.

Primary Sources: Two USTs (one gasoline and one waste-oil) were located beneath the sidewalk on the northern side of the property. A fuel dispenser was located inside the building (Figure 2). These primary sources of petroleum hydrocarbons were removed from the site in 1993.

Constituents of Potential Concern: Based on the type of fuel stored in the USTs and the results of previous subsurface investigations, the constituents of potential concern (COPCs) at the site include total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl t-butyl ether (MTBE). TPH as diesel (TPH-d) and TPH as motor oil (TPH-mo) are not routinely detected in groundwater samples and are considered secondary COPCs for the site.

Residual Source Area: Elevated concentrations of TPH-g, BTEX, and MTBE are present in soil in the vadose zone and upper portion of the aquifer near the former USTs and fuel dispenser. Separate phase petroleum hydrocarbons (SPH) have been intermittently detected in wells MW2 and MW3. These data indicate that most of the residual petroleum hydrocarbon mass is present near the former USTs and fuel dispenser, herein referred to as the source area.

Petroleum Hydrocarbon Distribution in Groundwater: The highest concentrations of petroleum hydrocarbons have been detected in samples collected from wells MW2 and MW3. Generally lower levels of petroleum hydrocarbons have been detected in samples collected from well MW4.

The extent of dissolved-phase petroleum hydrocarbons in groundwater is largely defined by concentrations detected in downgradient and cross-gradient monitoring wells MW5, MW6, and MW7. Historically, TPH-g, BTEX, and MTBE concentrations in samples from wells MW5, MW6, and MW7 are relatively low and stable (Table 2). In addition, fuel oxygenates (tertiary amyl methyl ether, ethyl tertiary butyl ether, di-isopropyl ether, tertiary butyl alcohol and ethanol) and lead scavengers (ethylene dibromide and ethylene dichloride) were detected near laboratory reporting limits or were not detected in groundwater samples collected from borings HP1 and HP3, drilled on 18 December 2003 (Table 3). These data suggest that the petroleum hydrocarbon plume is stable.

DPE Pilot Test: In March 2004, ETIC performed a DPE pilot test at the site. As summarized in the June 2004 *Dual Phase Extraction Pilot Test and Interim Remedial Action Plan* (DPE and IRAP Report), vacuum was applied to source area wells MW2 and MW3 while water and vacuum levels were measured in nearby monitoring wells. The DPE pilot test induced more than 1 foot of drawdown up to 50 feet from the extraction wells and an estimated radius of vacuum influence of 55 to 70 feet. Based on vapor flow rates and petroleum hydrocarbon concentrations in the vapor stream during the short-term pilot test, removal rates of approximately 90 pounds of petroleum hydrocarbons per day were estimated. These data suggested that DPE from wells MW2 and MW3 can successfully remove petroleum hydrocarbons from the site subsurface and induce vacuum influence across the source area.

Interim Remedial Action: The DPE and IRAP Report (ETIC, 2004) described the planned reduction of residual petroleum hydrocarbon mass in the source area through temporary DPE system installation and operation. The remediation technology consists of a liquid ring pump which applies high vacuum to source area wells MW2 and MW3 to extract soil vapor and groundwater simultaneously. A knockout vessel is used to separate the soil vapor and water streams. Extracted vapor is treated using a thermal oxidizer (with propane as a supplemental fuel), and extracted water is treated using aqueous-phase granular activated carbon. The DPE system is currently operating and field data indicate significant mass removal from the source area wells.

20 August 2004 ACHCSA Correspondence: In a 20 August 2004 correspondence, the ACHCSA provided general concurrence with the scope of work presented in the DPE Report and IRAP and requested that additional activities be performed, including preparation of a work plan for source characterization and shallow soil remediation. In the 26 October 2004 *Technical Memorandum*, ETIC presented an evaluation of site data concluding that the source area was adequately characterized and that the planned DPE interim remedial action would address the shallow soil remediation requested by the ACHCSA.

4 February 2005 ACHSCA Correspondence: In a 4 February 2005 correspondence, the ACHCSA provided concurrence with initiation of DPE interim remedial activities and requested an Addendum to the Interim Remedial Action Plan for verification monitoring of remediation effectiveness. The following summarizes ETIC's response to this request.

During operation of the remediation system, petroleum hydrocarbon concentrations in vapor and water are anticipated to decline, resulting in reduction in mass removal rates. As mass removal rates approach asymptotic levels, operation of the DPE system will cease temporarily (2 to 4 weeks) to allow the subsurface to re-equilibrate. Following re-equilibration, the site data will be evaluated and if warranted the system will be restarted and operated until mass removal rates again approach asymptotic levels. This process may be repeated. As described in ETIC's 24 June 2004 DPE Report and IRAP, the effectiveness of interim remedial action activities will be evaluated through multiple lines of evidence. The following provides a brief summary:

- Extracted water entering and exiting the carbon vessels will be analyzed to comply with EBMUD permit conditions and to evaluate carbon breakthrough. These data will also be used with groundwater extraction rates to evaluate mass removal rates in the aqueous phase.
- Extracted vapors entering and exiting the thermal oxidizer will be monitored using a photoionization detector (PID) on a weekly basis to comply with Bay Area Air Quality Management District (BAAQMD) permit conditions and determine the effectiveness of the treatment system. These data, along with monthly laboratory analyses of vapor samples, will be used with vapor extraction rates to evaluate mass removal rates in the vapor phase.
- Groundwater monitoring at the site, including the extraction wells, will continue on a quarterly basis. Additional groundwater samples from these extraction wells will be collected intermittently to evaluate the effectiveness of the DPE system. The absence of SPH and declining hydrocarbon concentrations in these wells will also be used to evaluate the system effectiveness.

3.0 PROTOCOLS FOR GROUNDWATER MONITORING

The following sections of this report present information relevant to the methods employed during the collection of groundwater samples from site wells. The scope of work for the quarterly groundwater monitoring event at the site included:

- Checking all wells for SPH.
- Gauging the depth to groundwater in all wells.
- Purging the monitoring wells to be sampled.
- Collecting and analyzing groundwater samples from the wells where no SPH is detected.
- Calculating the hydraulic gradient and flow direction.
- Evaluating the data and preparing a written report summarizing the results of the monitoring event.

3.1 GROUNDWATER GAUGING

The monitoring wells were opened prior to gauging to allow the groundwater level to equilibrate with atmospheric pressure. The depth to groundwater and depth to SPH, if present, were then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements were made from a fixed reference point at the top of the well casing.

The groundwater elevation map (Figure 2) for this monitoring event was constructed using depth-to-groundwater measurements collected during the current sampling event. Depth-to-groundwater measurements and calculated groundwater elevations are presented in Table 2. Field data forms are presented in Appendix B.

3.2 WELL PURGING

Approximately three well casing volumes of water were purged from wells MW4 and MW6 using a WaTerra inertial pump. Well MW3 was purged for approximately 1 hour using the DPE system. Well MW2 is continually purged due to operation of the DPE system. Field parameters including pH, temperature, and electrical conductance were measured during purging of MW4 and MW6. Groundwater monitoring protocols are presented in Appendix A.

3.3 GROUNDWATER SAMPLING

After purging, groundwater in each well was sampled using dedicated tubing and a WaTerra inertial pump, or a disposable bailer. Sample containers were sealed, labeled, stored in a cooler and transported under chain-of-custody protocol to STL San Francisco, a state-certified analytical laboratory in Pleasanton, California. Groundwater analytical results and chain-of-custody documentation are presented in Appendix C.

4.0 MONITORING RESULTS

4.1 SEPARATE-PHASE HYDROCARBON MONITORING

The wells were monitored for the presence of SPH using a disposable bailer and/or interface probe. SPH was not detected in the monitoring wells during this monitoring event.

4.2 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT

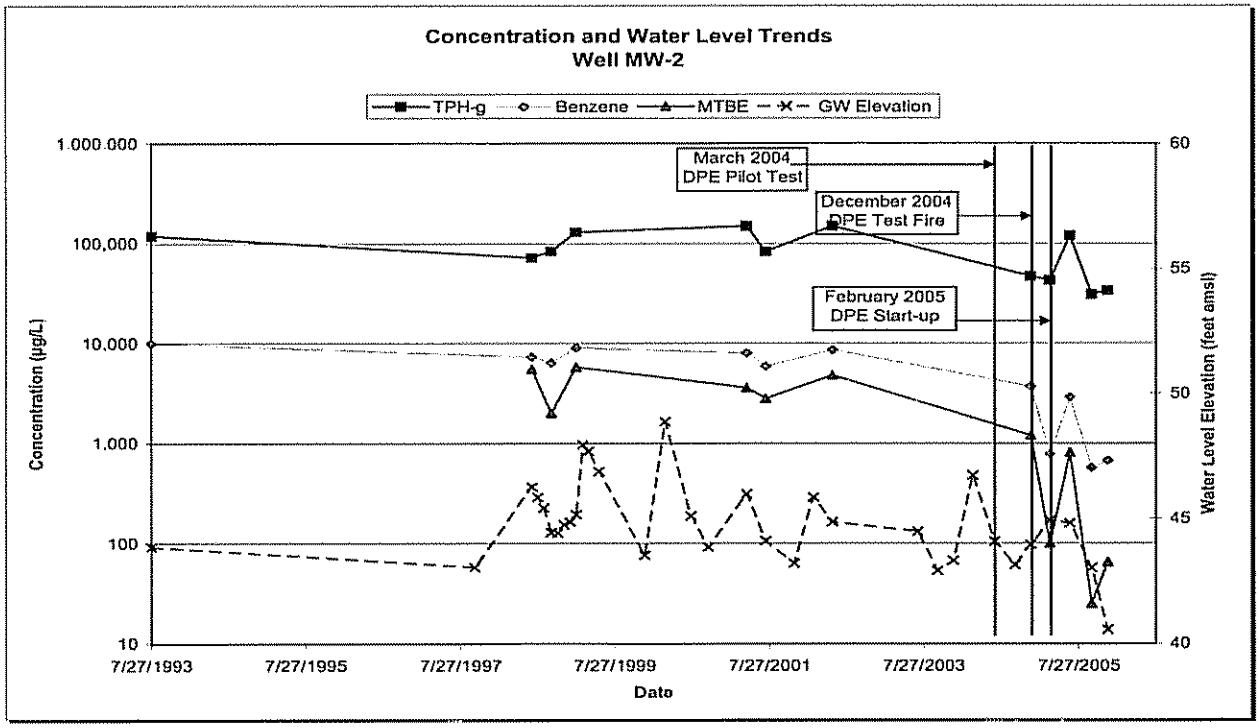
Groundwater elevations in the site wells during this monitoring event ranged from 40.55 feet above msl in well MW2 to 43.48 feet above msl in well MW7 (Figure 2). Groundwater elevations show the localized influence of the DPE system operation (Figure 2). The hydraulic gradient is approximately 0.01 ft/ft and flow direction is towards the south outside the cone of depression. The groundwater elevation in well MW7 during December 2005 appears to be anomalously high and was disregarded in calculating the gradient. At the request of the ACHCSA, a rose diagram depicting historical hydraulic gradients and groundwater flow directions are also presented on Figure 2.

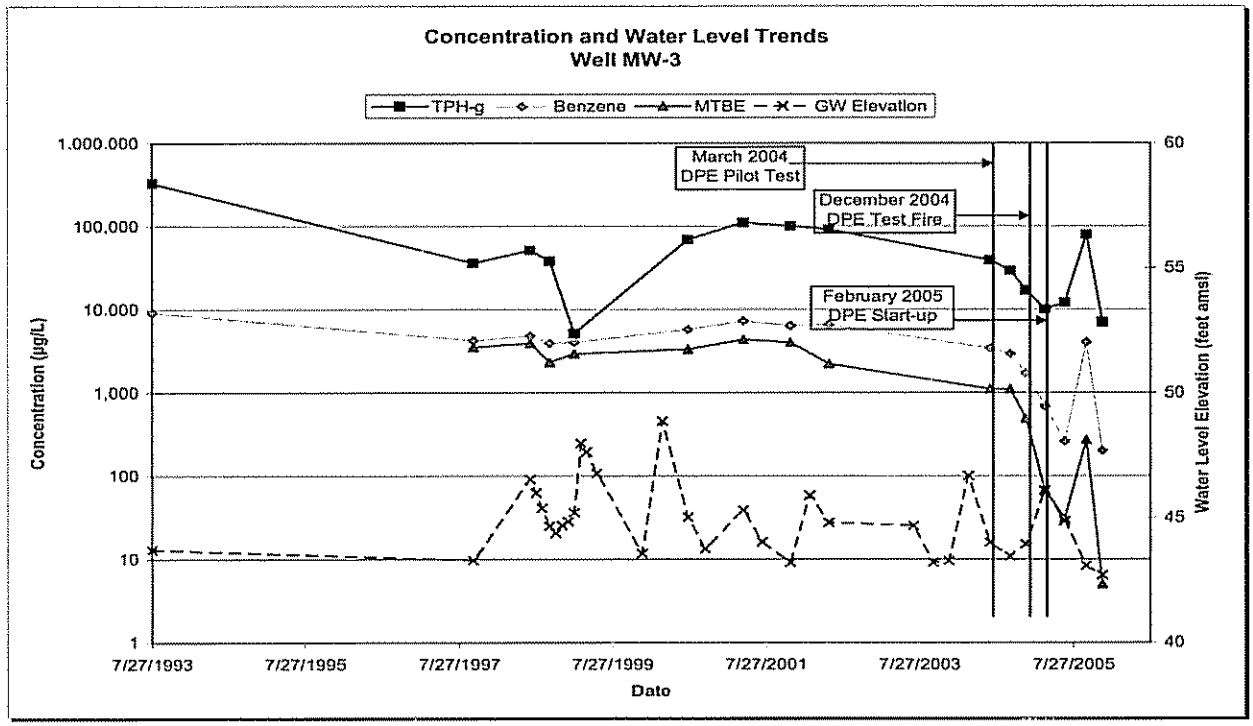
4.3 GROUNDWATER ANALYTICAL RESULTS

On 12 December 2005, groundwater samples were collected from wells MW2, MW3, MW4, and MW6 and analyzed by STL for TPH-g, BTEX, and MTBE by EPA Method 8260 and for TPH-d and TPH-mo by EPA Method 8015. Analytical results for this event are presented on Figure 3, and historical results are presented in Table 2. Copies of the chain-of-custody and laboratory analytical reports for the groundwater samples are presented in Appendix C.

Laboratory analytical results are summarized below:

- TPH-g was detected in the samples at concentrations ranging from 81 µg/L (well MW6) to 34,000 µg/L (well MW2). The concentrations of TPH-g decreased in wells MW3, MW4, and MW6 and increased in well MW2 compared to the previous sampling event.
- Benzene was detected in the samples at concentrations ranging from 0.62 µg/L (well MW6) to 670 µg/L (well MW2). The concentrations of benzene decreased in well MW3, increased in wells MW2 and MW6, and remained below laboratory reporting limits in well MW4 compared to the previous sampling event.
- MTBE was detected in the samples at concentrations ranging from 65 µg/L (well MW2) to 1,000 µg/L (well MW4). The concentrations of MTBE decreased in wells MW3 and MW6 and increased in wells MW2 and MW4 compared to the previous sampling event.
- TPH-d was detected at concentrations of 2,800 µg/L and 550 µg/L in wells MW2 and MW3, respectively. TPH-d was not detected in wells MW4 and MW6.
- TPH-mo was not detected in groundwater samples collected from any well this quarter.
- Concentration trends in wells MW2 and MW3 are presented in the graphs on the following page.


Concentration and Water Level Trends
Well MW-2
TPH-g
Benzene
MTBE
GW Elevation
March 2004
DPE Pilot Test
December 2004
DPE Test Fire
February 2005
DPE Start-up
1,000,000
100,000
10,000
1,000
100
10
60
55
50
45
40
Concentration (µg/L)
Water Level Elevation (feet amsl)
7/27/1993
7/27/1995
7/27/1997
7/27/1999
7/27/2001
7/27/2003
7/27/2005
Date


Concentration and Water Level Trends
Well MW-3
TPH-g
Benzene
MTBE
GW Elevation
March 2004
DPE Pilot Test
December 2004
DPE Test Fire
February 2005
DPE Start-up
1,000,000
100,000
10,000
1,000
100
10
1
60
55
50
45
40
Concentration (µg/L)
Water Level Elevation (feet amsl)
7/27/1993
7/27/1995
7/27/1997
7/27/1999
7/27/2001
7/27/2003
7/27/2005
Date

5.0 INTERIM REMEDIAL ACTION SUMMARY

5.1 DPE SYSTEM OPERATIONAL STATUS

Permits: Appropriate BAAQMD and East Bay Municipal Utility District (EBMUD) discharge permits have been acquired. The City of Oakland Building and Fire Departments have inspected and approved the remediation system construction.

System Construction: Wells MW2 and MW3 are connected to the DPE unit via underground piping. The DPE unit consists of a liquid-ring pump, knock-out vessel, and thermal oxidizer. Propane is used as a supplemental fuel for the thermal oxidizer. Installation of the DPE system was completed in December 2004.

Operational Status: The DPE unit was initially "test fired" in December 2004 once construction was complete. Based on data collected during initial operation, the DPE unit required modifications for more efficient operation. The motor was replaced in February 2005 and the system began operation on 23 February 2005. DPE has been applied to well MW2 since 23 February 2005. From 23 February 2005 to 15 July 2005, DPE was applied to well MW3. DPE was discontinued in well MW3 due to operational issues.

5.2 DPE SYSTEM PERFORMANCE

- Since December 2004, the system has been operational for approximately 232 days which corresponds to 75% of the total time available (Table 7).
- Influent concentrations of TPH-g in groundwater increased from 15,000 µg/L (10/10/05) to 20,000 µg/L (12/8/05) during the fourth quarter of 2005 (Table 4).
- The DPE system has extracted approximately 677,540 gallons of groundwater at an average flow rate of 1.3 gallons per minute (gpm) since operation began (Table 6).
- Approximately 111.02 pounds of TPH-g and 2.18 pounds of benzene have been removed in the aqueous phase during the operation of the DPE system (Table 6).
- Influent concentrations of TPH-g in soil vapor ranged from 1,400 parts per million by volume (ppmv) to 2,700 ppmv during the fourth quarter of 2005 (Table 5). The average system vapor flow rate has been 30 cubic feet per minute (CFM) since operation began (Table 7).
- Approximately 7,900 pounds of TPH-g and 99.9 pounds of benzene have been removed in the vapor phase during the operation of the DPE system (Table 7). These mass removal calculations are based on influent vapor samples typically collected while the system was operational for more than 3 days prior to vapor sample collection.

5.3 DPE SYSTEM PERFORMANCE EVALUATION

The DPE system continues to extract significant quantities of petroleum hydrocarbons; however the system does not operate efficiently while simultaneously extracting from both wells MW2 and MW3. Well MW3 was taken offline 15 July 2005 to increase the hydrocarbon mass recovery and operational up-time.

Residual petroleum hydrocarbon contamination is present in shallow soil near the former underground tanks and dispenser. Residual petroleum hydrocarbons in shallow soil can be an ongoing source of contamination to groundwater. The existing configuration of the DPE system is removing significant quantities of petroleum hydrocarbons from the subsurface, but cannot effectively remediate the contamination in shallow soil. ETIC Engineering is planning to implement certain enhancements to the remediation system to address the residual contamination in shallow soil and to reduce the length of time required for remediation. These enhancements include: 1) installation of extraction wells that will be constructed to address the contamination in shallow soil and 2) conversion of the vapor treatment system from propane-fired oxidizer to carbon filtration. Details concerning remediation system enhancements will be presented to Alameda County Health Care Services Agency under separate cover.

6.0 PLANNED SITE ACTIVITIES

6.1 INTERIM REMEDIAL ACTION

ETIC recommends the following:

- Continue operating the DPE system until influent concentrations approach asymptotic levels. Sample the system concentrations for water and vapor on a monthly basis to evaluate the effectiveness of the DPE system. These data will be used to calculate mass removal rates and system efficiency.
- Once influent concentrations approach asymptotic levels, shut down the system and evaluate "rebound" concentrations in the extraction wells. When mass removal rates diminish and/or the concentration rebound is limited, submit a request for site closure.
- ETIC Engineering is planning to implement certain enhancements to the remediation system to address the residual contamination in shallow soil and to reduce the length of time required for remediation. These enhancements include: 1) installation of extraction wells that will be constructed to address the contamination in shallow soil and 2) conversion of the vapor treatment system from propane-fired oxidizer to carbon filtration. Details concerning remediation system enhancements will be presented to Alameda County Health Care Services Agency under separate cover.

6.2 MONITORING ACTIVITIES

Groundwater will be monitored in accordance with the schedule presented in Table 8.

7.0 REFERENCES

Alameda County Health Care Services Agency. 2004. Fuel Leak Case No. RO0000134, Val Strough Chevrolet, 327-34th St., Oakland, California. August 20.

Alameda County Health Care Services Agency. 2005. Fuel Leak Case No. RO0000134, Val Strough Chevrolet, 327-34th St., Oakland, California. February 4.

Environmental Data Resources (EDR). 2003. EDR Radius Map with GeoCheck, Strough Family Trust, 327 34th Street, Oakland, California. September 10.

ETIC Engineering, Inc. 2003. Supplemental Site Investigation Workplan, Fuel Case No. RO0000134, Val Strough Chevrolet, 327 34th Street, Oakland, California. September 17.

ETIC Engineering, Inc. 2003. Third Quarter 2003 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. October.

ETIC Engineering, Inc. 2004. Supplemental Site Investigation Report and Dual-Phase Extraction Pilot Test Workplan, Strough Family Trust of 1983, 327 34th Street, Oakland, California. February.

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ETIC Engineering, Inc. 2004. Second Quarter 2004 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. August.

ETIC Engineering, Inc. 2004. Response to Technical Comments, Strough Family Trust of 1983, 327 34th Street, Oakland, California. October.

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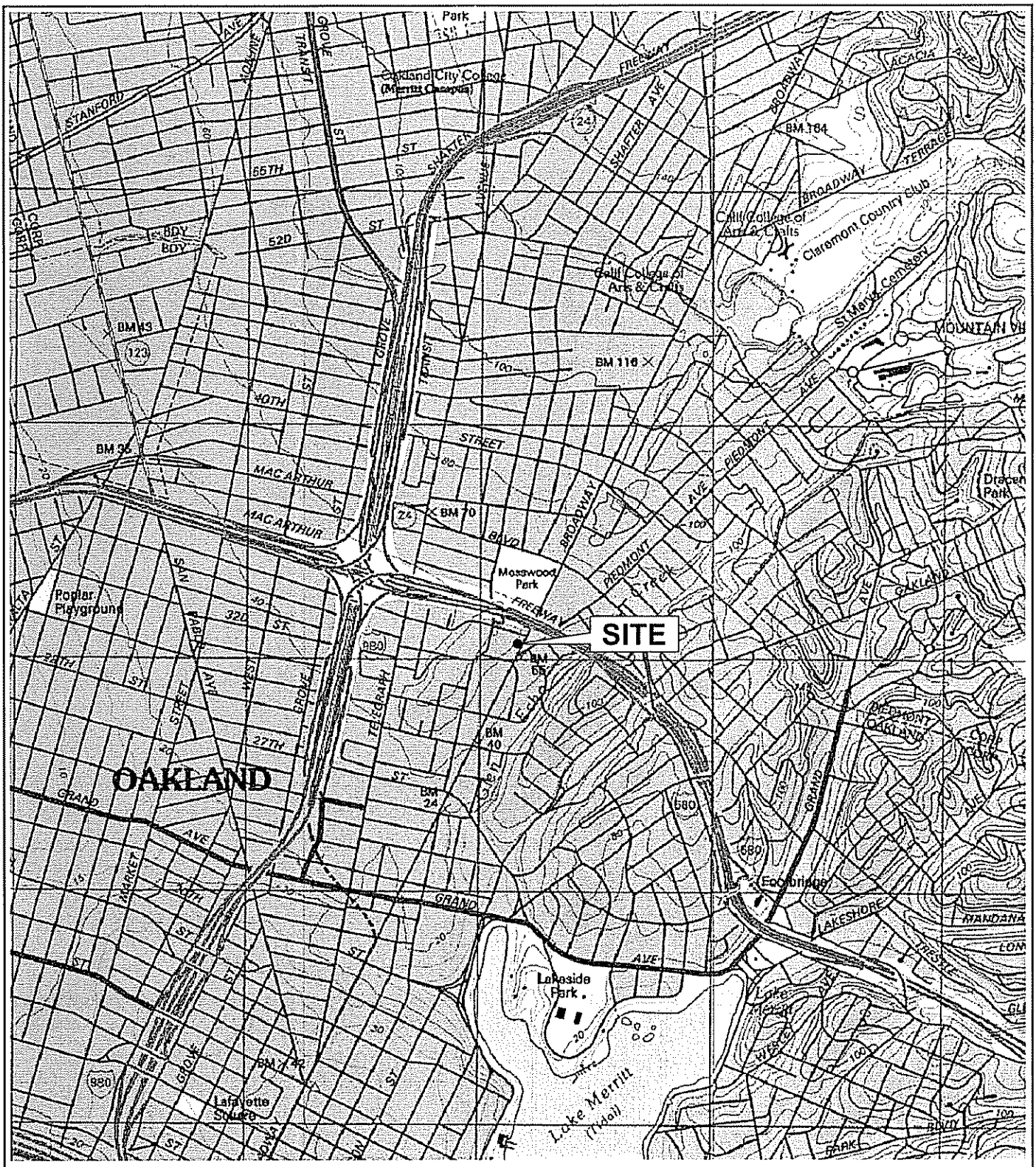
ETIC Engineering, Inc. 2005. First Quarter 2005 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. May.

ETIC Engineering, Inc. 2005. Second Quarter 2005 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. July.

ETIC Engineering, Inc. 2005. Third Quarter 2005 Groundwater Monitoring Report, Strough Family Trust of 1983, 327 34th Street, Oakland, California. November.

Figures



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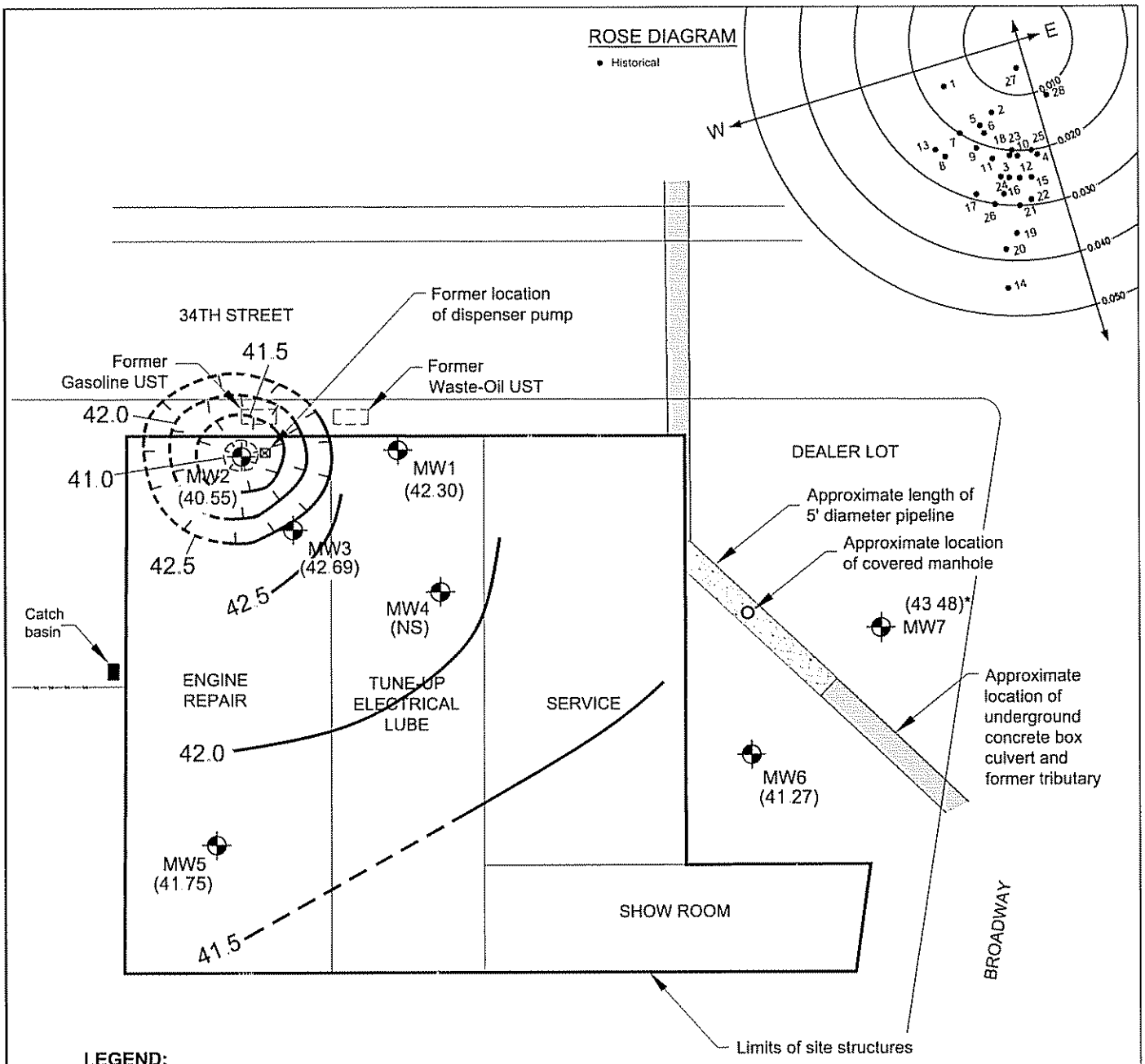
SITE LOCATION MAP
VAL STROUGH CHEVROLET
327 34TH STREET
OAKLAND, CALIFORNIA

FIGURE: 1

FILENAME: 4q2005.DWG 01/13/2006



LEGEND:

- Groundwater monitoring well
- (43.48) Groundwater elevation (feet above mean sea level)
- 42.0 Groundwater elevation contour (feet above mean sea level)
- Groundwater depression
- NS Not surveyed
- NM Not Measured
- * Groundwater elevation appears to be anomalous

N

0 25 50

Scale (feet)

Note: MW2 is used as a dual-phase extraction well.

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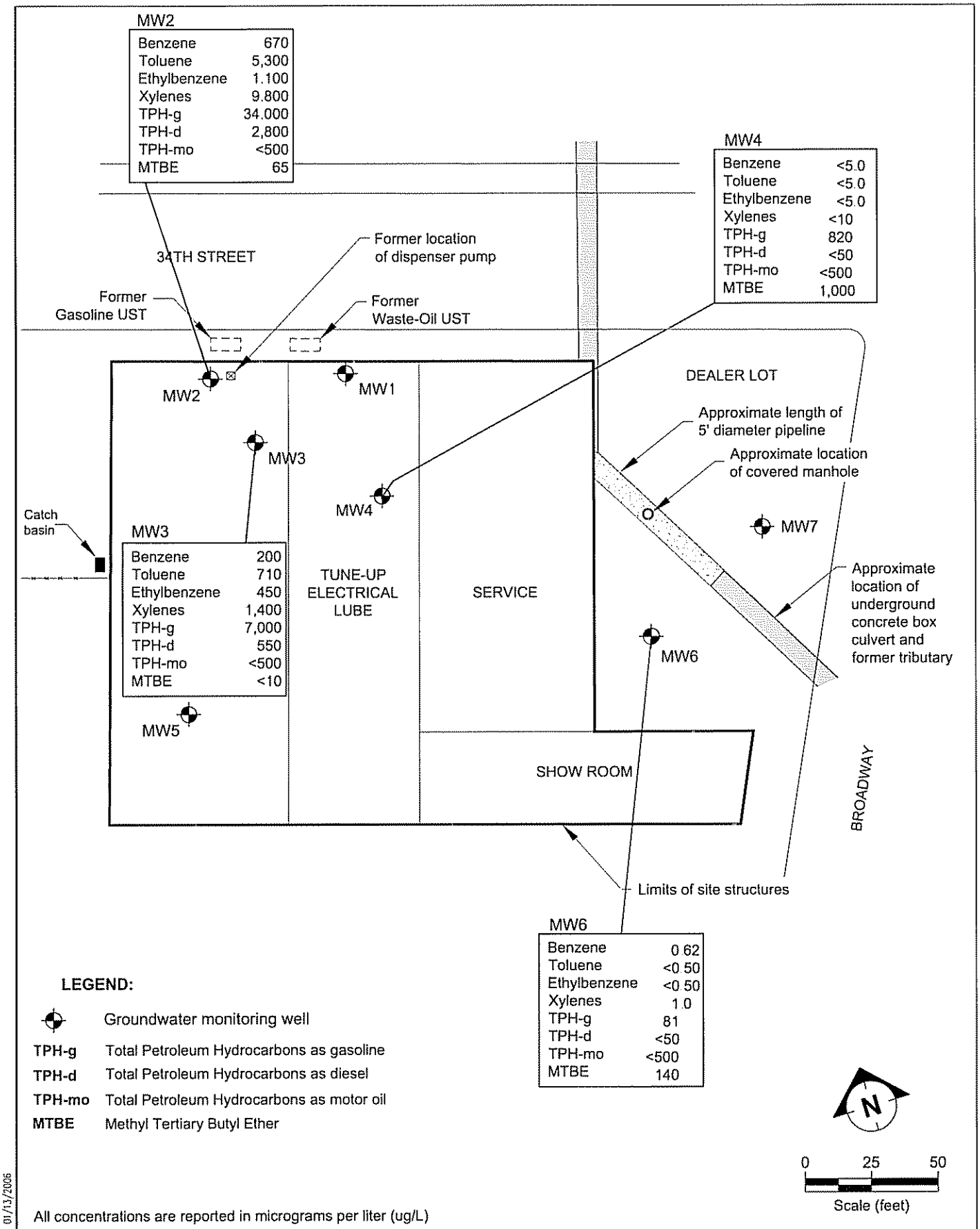
GROUNDWATER CONTOUR MAP AND ROSE DIAGRAM
FORMER VAL STROUGH CHEVROLET
327 34TH STREET, OAKLAND, CALIFORNIA
12 DECEMBER 2005

FIGURE: **2**

FILENAME: 4q2005.DWG 01/13/2006



FILENAME: 4q2005.DWG 01/13/2006

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GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET
327 34TH STREET, OAKLAND, CALIFORNIA
12 DECEMBER 2005

FIGURE: **3**

Tables

TABLE 1 WELL CONSTRUCTION DETAILS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well ID	Well Installation Date	Top-of-Casing Elevationa (feet)	Casing Material	Total Depth of Borehole (ft bgs)	Casing Diameter (inches)	Screened Interval (ft bgs)	Slot Size (inches)	Filter Pack Interval (ft bgs)	Filter Pack Material
MW1	07/19/93	64.69	PVC	32	2	17-32	0.020	15-32	Gravel Pack
MW2	07/20/93	65.95	PVC	33	2	18-33	0.020	16-33	Gravel Pack
MW3	07/20/93	65.99	PVC	34	2	18-34	0.020	16-34	Gravel Pack
MW4	06/26/98	63.35	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW5	06/26/98	65.59	PVC	31	2	15-31	0.020	13-31.5	Lonestar #3 Sand
MW6	07/17/00	59.60	PVC	31.5	2	10-30	0.020	8-30	Lonestar #3 Sand
MW7	07/17/00	59.47	PVC	36.5	2	15-35	0.020	13-35	Lonestar #3 Sand

a Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.
PVC Polyvinyl chloride.
ft bgs Feet below ground surface.

TABLE 2 CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)									
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO_2 (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
MW1	07/27/93	100.00	a	20.79	79.21	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	--	--	--	--	--	--	--	--	--	--	--	--
MW1	10/02/97	100.00	a	21.22	78.78	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<2.0	--	--	--	--	--	--	--	--	--	--
MW1	06/30/98	100.00	a	18.21	81.79	0.00	<0.50	<0.50	2.1	0.6	84	--	--	2.1	204	5	--	6.16	0.15	0.046	55	<0.10	<0.10	2
MW1	07/29/98	100.00	a	18.74	81.26	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	08/26/98	100.00	a	19.28	80.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	10/01/98	100.00	a	19.93	80.07	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	192	3.6	--	6.49	--	--	--	--	--	--
MW1	10/30/98	100.00	a	20.22	79.78	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	11/30/98	100.00	a	19.99	80.01	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	12/28/98	100.00	a	19.81	80.19	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	01/25/99	100.00	a	19.62	80.38	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	389	3.4	--	6.72	--	--	--	--	--	--
MW1	02/26/99	100.00	a	17.18	82.82	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	03/24/99	100.00	a	17.28	82.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	05/12/99	100.00	a	17.91	82.09	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	12/15/99	100.00	a	21.01	78.99	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--	3.31	--	6.52	--	--	--	--	--	--
MW1	03/20/00	100.00	a	16.25	83.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	07/20/00	100.00	a	19.63	80.37	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	3.4	120	7.37	--	6.66	0.13	<0.01	54	<0.10	3.4	<0.2
MW1	10/11/00	100.00	a	20.80	79.20	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	04/10-11/01	100.00	a	18.81	81.19	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	1.2	117	NR	--	NR	<0.10	0.045	57	<0.10	6.6	0.15
MW1	07/10/01	100.00	a	20.51	79.49	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	11/20/01	64.69	b	21.36	43.33	0.00	<0.50	1.3	<0.50	0.81	<50	<50	<300	<2.0	--[c]	0.65	--	6.47	0.32	1.8	63	<0.10	--	<0.20
MW1	02/19/02	64.69	b	18.95	45.74	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	05/21/02	64.69	b	19.82	44.87	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<2.0	120	0.96	--	6.25	<0.10	0.5	58	<0.10	5.5	<0.20
MW1	06/27/03	64.69	b	19.93	44.76	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	09/29/03	64.69	b	21.24	43.45	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	--	--	--	--	--	--	--	--	--
MW1	12/12/03	64.69	b	21.27	43.42	0.00	<0.50	<0.50	<0.50	1.1	<50	58	<500	<0.50	--	--	--	--	--	--	--	--	--	--
MW1	03/15/04	64.69	b	18.18	46.51	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	0.14	--	--	--	--	--	--	--	--
MW1	06/24/04	64.69	b	20.48	44.21	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	0.15	--	--	--	--	--	--	--	--
MW1	09/29/04	64.69	b	21.37	43.32	0.00	<0.50	0.51	<0.50	<1.0	<50	<50	<500	<0.50	--	1.01	--	6.42	--	--	--	--	--	--
MW1	12/13/04	64.69	b	20.63	44.06	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	03/14/05	64.69	b	18.69	46.00	0.00	<0.50	<0.50	<0.50	<1.0	<50	73	h <500	<0.50	--	1.96	--	6.04	--	--	--	--	--	--
MW1	06/15/05	64.69	b	20.32	44.37	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW1	09/26/05	64.69	b	22.10	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	i <50	<500	<0.50	--	1.84	317.4	6.43	--	--	--	--	--	--
MW1	**12/12/05**	**64.69**	**b**	**22.39**	**42.30**	**0.00**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	07/27/93	101.27	a	22.10	79.17	0.00	10,000	27,000	2,900	20,000	120,000	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	10/02/97	101.27	a	22.91	78.36	0.43	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2	06/30/98	101.27	a	19.69	81.58	0.45	7,300	18,000	2,500	15,600	72,000	--	--	5,500	185	2.2	--	5.98	--	--	--	--	--	--
MW2	07/29/98	101.27	a	20.11	81.16	0.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	08/26/98	101.27	a	20.54	80.73	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	10/01/98	101.27	a	21.52	79.75	0.42	6,400	17,000	2,600	17,000	84,000	--	--	2,000	--	2.7	--	6.47	--	--	--	--	--	--
MW2	10/30/98	101.27	a	21.54	79.73	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	11/30/98	101.27	a	21.21	80.06	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	12/28/98	101.27	a	21.10	80.17	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	01/25/99	101.27	a	20.80	80.47	0.01	9,000	26,000	3,800	27,500	130,000	--	--	5,800	386	0.3	--	6.69	--	--	--	--	--	--
MW2	02/26/99	101.27	a	18.00	83.27	sheen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	03/24/99	101.27	a	18.27	83.00	trace	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	05/12/99	101.27	a	19.08	82.19	trace	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2 CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	Concentration (mg/L) CO_2 (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
MW2	12/15-16/99	101.27	a	22.42	78.85	0.025	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2	03/20/00	101.27	a	17.09	84.18	0.026	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	07/20/00	101.27	a	20.86	80.41	0.017	*	*	*	*	*	*	*	*	*	0.88	*	6.37	*	*	*	*	*	*
MW2	10/11/00	101.27	a	22.10	79.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	04/10-11/01	101.27	a	19.98	81.29	0.00	8,000	22,000	2,600	23,500	150,000	1,500	<600	3,600	168	NR	--	NR	3.1	2.5	16	0.14	0.19	<0.20
MW2	07/10/01	101.27	a	21.85	79.42	0.00	5,900	15,000	2,300	12,100	83,000	5,700	<1,500	2,800	--	--	--	--	--	--	--	--	--	--
MW2	11/20/01	65.95	b	22.75	43.20	0.00	--	--	--	--	--	--	--	--	120	NR	--	6.15	1.8	2	16	<0.10	--	<0.20
MW2	02/19/02	65.95	b	20.12	45.83	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	05/21/02	65.95	b	21.10	44.85	0.00	8,600	25,000	3,500	26,000	150,000	31,000	<3,000	4,800	160	0.88	--	5.99	3.9	1.7	13	<0.10	0.54	<0.20
MW2	06/27/03	65.95	b	21.48	44.47	0.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2	09/29/03	65.95	b	23.04	42.91	0.48	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2[e]	12/12/03	65.95	b	22.75	43.31	0.16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2[e]	03/15/04	65.95	b	19.24	46.72	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2[e]	06/24/04	65.95	b	22.10	44.06	0.31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2[e]	09/29/04	65.95	b	22.81	43.14	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW2[e]	12/13/04	65.95	b	22.06	43.95	0.08	3,700	12,000	1,900	10,000	47,000	2,600	<500	1,200	*	0.27	*	6.63	*	*	*	*	*	*
MW2[j]	03/14/05	65.95	b	25.00	40.95	0.00	780	3,700	920	6,400	43,000	43,000 h	<5,000	<200	*	*	*	*	*	*	*	*	*	*
MW2	06/15/05	65.95	b	21.14	44.81	0.00	2,900	15,000	2,400	22,000	120,000	13,000	<2,500	810	--	3.05	-147.6	--	--	--	--	--	--	--
MW2	07/18/05	65.95		NM	NC	NM	2,700	13,000	1,800	15,000	120,000	17,000	--	530	--	--	--	--	--	--	--	--	--	--
MW2	09/26/05	65.95		22.93	43.02	0.00	570	4,000	620	6,200	31,000	63,000	28,000 k	<50	--	--	--	--	--	--	--	--	--	--
MW2	**12/12/05**	**65.95**		**25.40**	**40.55**	**0.00**	**670**	**5,300**	**1,100**	**9,800**	**34,000**	**2,800**	**<500**	**65**	--	--	--	--	--	--	--	--	--	--
MW3	07/27/93	101.29	a	22.28	79.01	0.02	9,100	24,000	5,300	33,000	330,000	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	10/02/97	101.29	a	22.71	78.58	0.03	4,200	11,000	1,800	10,600	36,000	--	--	3,500	--	--	--	--	--	--	--	--	--	--
MW3	06/30/98	101.29	a	19.47	81.82	0.00	4,800	11,000	1,200	7,100	51,000	--	--	3,900	300	2	--	6.03	1.4	9.8	13	1.4	<0.10	2.4
MW3	07/29/98	101.29	a	20.01	81.28	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	08/26/98	101.29	a	20.62	80.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	10/01/98	101.29	a	21.33	79.96	0.00	3,900	8,500	1,200	6,000	38,000	--	--	2,300	240	2	--	6.65	--	--	--	--	--	--
MW3	10/30/98	101.29	a	21.62	79.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	11/30/98	101.29	a	21.31	79.98	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	12/28/98	101.29	a	21.15	80.14	0.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	01/25/99	101.29	a	20.79	80.50	0.00	4,000	10,000	1200	6700	5,100	--	--	2900	238	1	--	7.01	--	--	--	--	--	--
MW3	02/26/99	101.29	a	18.02	83.27	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	03/24/99	101.29	a	18.37	82.92	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	05/12/99	101.29	a	19.22	82.07	0.0083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	12/15-16/99	101.29	a	22.43	78.86	0.00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW3	03/20/00	101.29	a	17.14	84.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	07/20/00	101.29	a	20.98	80.31	0.00	5,700	14,000	1,600	9,300	69,000	2,900	<300	3,300	128	2.05	--	6.73	3.9	6.6	20	<0.10	0.55	<0.20
MW3	10/11/00	101.29	a	22.24	79.05	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	04/10-11/01	101.29	a	20.70	80.59	0.00	7,200	<0.001	2,300	12,900	110,000	4,700	<1,500	4,300	137	NR	--	NR	1	6	8.2	<0.10	0.13	<0.20
MW3	07/10/01	101.29	a	21.97	79.32	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	11/20/01	65.99	b	22.80	43.19	0.00	6,300	16,000	2,400	14,900	100,000	5,900	<900	4,000	120	2.93	--	6.67	0.84	12	31	<0.10	--	<0.20
MW3	02/19/02	65.99	b	20.11	45.88	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	05/21/02	65.99	b	21.20	44.79	0.00	6,500	17,000	2,200	12,700	91,000	14,000	<3,000	2,200	130	1.01	--	6.62	4.2	9.6	25	<0.10	0.77	<0.20
MW3	06/27/03	65.99	b	21.32	44.67	sheen	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3	09/29/03	65.99	b	22.79	43.20	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW3[e]	12/12/03	65.99	b	22.73	43.27	0.01	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
MW3[e]	03/15/04	65.99	b	19.32	46.67	sheen	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

TABLE 2 CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)								
							Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO_2 (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
MW3	06/24/04	65.99	b	21.99	44.00	0.00	3,400	7,700	1,000	4,800	39,000	1,700	<500	1,100	--	0.07	--	--	--	--	--	--	--	--
MW3	09/29/04	65.99	b	22.54	43.45	0.00	2,900	6,700	980	4,300	29,000	2,200	<500	1,100	--	0.80	--	6.42	--	--	--	--	--	--
MW3	12/13/04	65.99	b	22.06	43.93	0.00	1,700	2,900	790	3,400	17,000	1,300	<500	490	--	0.16	--	6.7	--	--	--	--	--	--
MW3[j]	03/14/05	65.99	b	24.00	41.99	0.00	680	1,700	380	1,600	10,000	670 h	<500	67	--	--	--	--	--	--	--	--	--	--
MW3	06/15/05	65.99	b	21.13	44.86	0.00	260	960	330	1,400	12,000	1,200	<500	31	--	1.93	-150.4	--	--	--	--	--	--	--
MW3	07/18/05	65.99	b	NM	NC	NM	1,000	5,600	1,100	4,300	23,000	1,700	--	81	--	--	--	--	--	--	--	--	--	--
MW3	09/26/05	65.99	b	22.92	43.07	0.00	4,000	17,000	1,900	17,000	79,000	5,100	540 k	270	--	--	--	--	--	--	--	--	--	--
MW3	**12/12/05**	**65.99**	**b**	**23.30**	**42.69**	**0.00**	**200**	**710**	**450**	**1,400**	**7,000**	**550**	**<500**	**<10**	--	--	--	--	--	--	--	--	--	--
MW4	06/30/98	98.65	a	16.93	81.72	0.00	2,200	930	850	2,100	10,000	--	--	1,800	222	2.6	--	6.18	0.14	4.3	14	0.8	0.8	1.5
MW4	07/29/98	98.65	a	17.48	81.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	08/26/98	98.65	a	18.65	80.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	10/01/98	98.65	a	18.74	79.91	0.00	570	46	130	36	1,100	--	--	1,300	320	3.4	--	<0.001	--	--	--	--	--	--
MW4	10/30/98	98.65	a	19.02	79.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	11/30/98	98.65	a	18.74	79.91	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	12/28/98	98.65	a	18.60	80.05	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	01/25-26/99	98.65	a	18.32	80.33	0.00	230	<8.3	<8.3	<8.3	290	--	--	1,300	475	6.7	--	7	--	--	--	--	--	--
MW4	02/26/99	98.65	a	15.81	82.84	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	03/24/99	98.65	a	16.01	82.64	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	05/12/99	98.65	a	17.71	80.94	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	12/15-16/99	98.65	a	19.83	78.82	0.00	5.8	<0.50	<0.50	<0.50	<50	--	--	1,400	--	1.75	--	7.02	--	--	--	--	--	--
MW4	03/20/00	98.65	a	14.9	83.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	07/20/00	98.65	a	18.38	80.27	0.00	91	4.6	19	12.9	210	<50	<300	1,500	126	3.88	--	6.67	9.5	5.3	11	<0.10	0.04	<0.20
MW4	10/11/00	98.65	a	19.61	79.04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	04/10-11/01	98.65	a	17.55	81.10	0.00	110	<5.0	<5.0	<5.0	350	<50	<300	1,100	107	NR	--	NR	0.8	6.3	10	<0.10	<0.05	<0.20
MW4	07/10/01	98.65	a	19.34	79.31	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	11/20/01	63.35	b	20.16	43.19	0.00	<2.5	4	<2.5	3.7	96	<50	<300	2,500	130	0.83	--	6.51	1.6	10	11	<0.10	--	<0.20
MW4	02/19/02	63.35	b	17.34	46.01	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	05/21/02	63.35	b	18.57	44.78	0.00	340	5.7	70	<1.0	940	83	<300	1,600	150	1.65	--	6.32	3.1	8.4	9	<0.10	0.06	<0.20
MW4	06/27/03	63.35	b	18.72	44.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	09/29/03	63.35	b	20.11	43.24	0.00	<5.0	<5.0	<5.0	<10	1,100	<50 d	<500	1,700	--	--	--	--	--	--	--	--	--	--
MW4	12/12/03	63.35	b	20.06	43.29	0.00	<13	<13	<13	<25	<1,300	<50	<500	1,000	--	--	--	--	--	--	--	--	--	--
MW4	03/15/04	63.35	b	16.89	46.46	0.00	1.5	<0.50	<0.50	<1.0	54 d	<50	<500	41	--	0.16	--	--	--	--	--	--	--	--
MW4	06/24/04	63.35	b	19.31	44.04	0.00	69	<5.0	<5.0	<10	920 d	<50	<500	1,100	--	0.15	--	--	--	--	--	--	--	--
MW4	09/29/04	63.35	b	20.20	43.15	0.00	<5.0	<5.0	<5.0	<10	940 g	<50	<500	1,200	--	0.13	--	6.63	--	--	--	--	--	--
MW4	12/13/04	**	b	20.44	NC	0.00	<5.0	<5.0	<5.0	<10	740	<50	<500	860	--	0.58	--	6.84	--	--	--	--	--	--
MW4	03/14/05	**	b	18.30	NC	0.00	20	<5.0	<5.0	<10	930 i	<50	<500	930	--	0.28	--	6.34	--	--	--	--	--	--
MW4	06/15/05	**	b	20.03	NC	0.00	350	6.1	<5.0	<10	2100	89	<500	1,100	--	0.46	-98.9	--	--	--	--	--	--	--
MW4	07/18/05	**		NM	NC	NM	11	<5.0	<5.0	<10	540 i	<50	--	1,100	--	--	--	--	--	--	--	--	--	--
MW4	09/26/05	**		21.79	NC	0.00	<5.0	<5.0	<5.0	<10	960 i	<50	<500	660	--	2.20	210.4	6.73	--	--	--	--	--	--
MW4	**12/12/05**	**		**21.89**	**NC**	**0.00**	**<5.0**	**<5.0**	**<5.0**	**<10**	**820**	**<50**	**<500**	**1,000**	--	2.05	--	6.62	--	--	--	--	--	--
MW5	06/30/98	100.9	a	20.60	80.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	23	220	4.3	--	6.1	--	--	--	--	--	--
MW5	07/29/98	100.9	a	21.52	79.38	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	08/26/98	100.9	a	22.21	78.69	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	10/01/98	100.9	a	22.95	77.95	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	256	4.8	--	6.71	--	--	--	--	--	--
MW5	10/30/98	100.9	a	23.23	77.67	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	11/30/98	100.9	a	23.12	77.78	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 2 CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	Concentration (mg/L) CO_2 (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
MW5	12/28/98	100.9	a	23.18	77.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	01/25-26/99	100.9	a	22.61	78.29	0.00	<1.0	<1.0	<1.0	<1.0	<50	--	--	<2.0	305	9.7	--	7.04	--	--	--	--	--	--
MW5	02/26/99	100.9	a	19.78	81.12	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/24/99	100.9	a	20.25	80.65	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	05/12/99	100.9	a	21.06	79.84	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/15-16/99	100.9	a	24.19	76.71	0.00	<0.50	<0.50	<0.50	<0.50	<50	--	--	<0.50	--	2.72	--	7.19	--	--	--	--	--	--
MW5	03/20/00	100.9	a	19.15	81.75	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	07/20/00	100.9	a	21.84	79.06	0.00	<0.50	0.98	<0.50	<0.50	<50	<50	<300	1.9	134	5.58	--	6.35	0.11	0.017	49	<0.10	3.9	<0.20
MW5	10/11/00	100.9	a	23.4	77.50	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	04/10-11/01	100.9	a	22.3	78.60	0.00	<0.50	2.6	<0.50	0.6	<50	<50	<300	1.5	183	66	--	NR	<0.10	0.042	45	<0.10	2.9	0.11
MW5	07/10/01	100.9	a	23.64	77.26	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	11/20/01	65.59	b	24.65	40.94	0.00	0.83	12	1.2	11	140	860	2,500	10	--[7]	66	--	6.01	0.2	2.5	42	<0.10	--	<0.20
MW5	02/19/02	65.59	b	22.37	43.22	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	05/21/02	65.59	b	23.10	42.49	0.00	<0.50	<0.50	<0.50	<0.50	<50	2,200	<300	<2.0	140	66	--	6.3	<0.1	0.22	44	<0.10	3	<0.20
MW5	06/27/03	65.59	b	23.07	42.52	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/29/03	65.59	b	24.38	41.21	0.00	<0.50	0.52	7.1	35	100	<50 d	<500	1.4	--	--	--	--	--	--	--	--	--	--
MW5	12/12/03	65.59	b	23.90	41.69	0.00	<0.50	<0.50	<0.50	<1	<50	<50	<500	1.5	--	--	--	--	--	--	--	--	--	--
MW5	03/15/04	65.59	b	20.82	44.77	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<500	<0.50	--	6.4	--	--	--	--	--	--	--	--
MW5	06/24/04	65.59	b	23.57	42.02	0.00	<0.50	<0.50	<0.50	<1.0	<50	130 f	<500	0.79	--	5.56	--	--	--	--	--	--	--	--
MW5	09/29/04	65.59	b	24.44	41.15	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	12/13/04	65.59	b	23.87	41.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	03/14/05	65.59	b	20.18	45.41	0.00	<0.50	1.3	1.5	8.6	82	<50	<500	<0.50	--	3.91	--	5.57	--	--	--	--	--	--
MW5	06/15/05	65.59	b	12.96	52.63	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	09/26/05	65.59	b	23.60	41.99	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	**12/12/05**	**65.59**	**b**	**23.84**	**41.75**	**0.00**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	07/20/00	96.60	a	18.30	78.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	160	122	2.72	--	6.66	120	1.9	53	6	0.05	<0.20
MW6	10/11/00	96.60	a	18.69	77.91	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	04/10-11/01	96.60	a	17.85	78.75	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	180	142	NR	--	NR	22	2.2	0.69	5.2	<0.05	<0.20
MW6	07/10/01	96.60	a	18.43	78.17	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	11/20/01	59.60	b	18.67	40.93	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	450	100	2.03	--	6.44	29	5.2	1.1	3.4	--	<0.20
MW6	02/19/02	59.60	b	17.40	42.20	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	05/21/02	59.60	b	17.68	41.92	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	170	100	0.76	--	6.6	11	3.4	1.4	8.9	0.65	<0.20
MW6	06/27/03	59.60	b	17.73	41.87	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/29/03	59.60	b	18.48	41.12	0.00	<1.0	<1.0	<1.0	<2.0	230 d	<50	<500	340	--	--	--	--	--	--	--	--	--	--
MW6	12/12/03	59.60	b	17.89	41.71	0.00	<2.5	<2.5	<2.5	<5.0	<250	51	<500	190	--	--	--	--	--	--	--	--	--	--
MW6	03/15/04	59.60	b	16.46	43.14	0.00	<1.0	<1.0	<1.0	<2.0	200	<50	<500	220	--	0.11	--	--	--	--	--	--	--	--
MW6	06/24/04	59.60	b	17.97	41.63	0.00	<1.0	<1.0	<1.0	<2.0	130	<50	<500	190	--	0.05	--	--	--	--	--	--	--	--
MW6	09/29/04	59.60	b	18.55	41.05	0.00	<0.50	0.61	<0.50	1.2	210 g	<50	<500	190	--	0.37	--	6.60	--	--	--	--	--	--
MW6	12/13/04	59.60	b	17.88	41.72	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	03/14/05	59.60	b	16.82	42.78	0.00	<0.50	<0.50	<0.50	1.8	160	<50	<500	190	--	0.08	--	5.65	--	--	--	--	--	--
MW6	06/15/05	59.60	b	17.60	42.00	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	09/26/05	59.60	b	NM	NM	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	**12/12/05**	**59.60**	**b**	**18.33**	**41.27**	**0.00**	**0.62**	**<0.50**	**<0.50**	**1.0**	**81**	**<50**	**<500**	**140**	--	**1.52**	--	**6.61**	--	--	--	--	--	--
MW7	07/20/00	96.75	a	15.93	80.82	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	32.2	7.15	--	7.43	<0.1	0.002	7.5	<0.10	2.6	0.13
MW7	10/11/00	96.75	a	16.90	79.85	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	04/10-11/01	96.75	a	15.80	80.95	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50	<300	<0.50	77.6	NR	--	NR	0.18	0.048	49	<0.10	2.7	0.31

TABLE 2 CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)		Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d		TPH-mo	MTBE	Concentration (mg/L) CO_2 (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$
MW7	07/10/01	96.75	a	16.71	80.04	0.00	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
MW7	11/20/01	59.47	b	16.17	43.30	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50		<300	<2.0	62	0.96	--	7.11	0.16	1.8	63	<0.10	--	<0.20
MW7	02/19/02	59.47	b	14.92	44.55	0.00	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
MW7	05/21/02	59.47	b	15.18	44.29	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50		<300	<0.50	68	1.03	--	7.57	0.11	0.35	51	<0.10	2.8	0.11
MW7	06/27/03	59.47	b	16.28	43.19	0.00	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	
MW7	09/29/03	59.47	b	16.88	42.59	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50		<500	0.62	--	--	--	--	--	--	--	--	--	--
MW7	12/12/03	59.47	b	14.95	44.52	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50		<500	<0.50	--	--	--	--	--	--	--	--	--	--
MW7	03/15/04	59.47	b	14.77	44.70	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50		<500	<0.50	--	0.54	--	--	--	--	--	--	--	--
MW7	06/24/04	59.47	b	16.33	43.14	0.00	<0.50	<0.50	<0.50	<1.0	<50	300	f	<500	<0.50	--	0.20	--	--	--	--	--	--	--	--
MW7	09/29/04	59.47	b	16.88	42.59	0.00	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
MW7	12/13/04	59.47	b	15.26	44.21	0.00	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
MW7	03/14/05	59.47	b	15.00	44.47	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50		<500	<0.50	--	0.47	--	6.15	--	--	--	--	--	--
MW7	06/15/05	59.47	b	15.32	44.15	0.00	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
MW7	09/26/05	59.47	b	NM	NM	0.00	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
MW7	**12/12/05**	**59.47**	**b**	**15.99**	**43.48**	**0.00**	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--

SPH Separate-phase hydrocarbons.
CO_2 Carbon dioxide.
DO Dissolved oxygen.
Fe(II) Ferrous iron.
Mn Manganese.
SO_4 Sulfate.
$N\text{-}NH_3$ Ammonia.
$N\text{-}NO_3$ Nitrate.
$o\text{-}PO_4$ Ortho-Phosphate.
GW Groundwater.
TPH-g Total Petroleum Hydrocarbons as gasoline.
TPH-d Total Petroleum Hydrocarbons as diesel.
TPH-mo Total Petroleum Hydrocarbons as motor oil.
MTBE Methyl tertiary butyl ether.
NC Not calculated.
NM Not measured.
NR Not reported.
µg/L Micrograms per liter.
mg/L Milligrams per liter.
• SPH present; not sampled.
•• Well MW4 elevation modified due to site renovation activities. Not Surveyed.
-- Not analyzed or not sampled.
< Less than the laboratory reporting limits.
a Elevations are referenced to monitoring well MW1, with assumed datum of 100.00 feet.
b Elevations based on a survey conducted August 2002 and referenced benchmark with known elevation (NGVD 29) of 60.40 feet above mean sea level.
c Analysis not conducted due to broken sample containers.
d Hydrocarbon reported in the gasoline range does not match laboratory gasoline standard.
e Groundwater elevation in wells with LPH are corrected by multiplying the specific gravity of gasoline (0.69) by the LPH thickness and adding this value to the water elevation.
f Hydrocarbon reported is in the early diesel range, and does not match the laboratory diesel standard.
g Sample contained discrete peak in gasoline range and identified by lab as MTBE.
h Quantity of unknown hydrocarbon(s) in sample based on diesel.

TABLE 2 CUMULATIVE GROUNDWATER ELEVATION AND ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	GW Elevation (feet)	SPH Thickness (feet)	Concentration (µg/L)								Concentration (mg/L)									
						Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	CO_2 (lab)	DO (field)	Eh (mv) (field)	pH (field)	Fe(II)	Mn	SO_4	$N\text{-}NH_3$	$N\text{-}NO_3$	$o\text{-}PO_4$

i The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

j Depth to groundwater is based on the depth of the stingers.

k Quantity of unknown hydrocarbon(s) in sample based on mtor oil.

TABLE 3 HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

			Concentrations (µg/L)													
Boring ID	Date	Depth (feet)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	TPH-d	TPH-mo	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
HP1	12/18/2003	26-30	<5.0	<5.0	<5.0	11	410	180	<500	<50	480	<10	<5.0	<5.0	<5.0	<5.0
HP3	12/18/2003	32-36	<0.50	<0.50	<0.50	<1.0	<50	75	<500	<5.0	0.55	<1.0	<0.50	<0.50	1.3	<0.50

TPH-g Total Petroleum Hydrocarbons as gasoline.
TPH-d Total Petroleum Hydrocarbons as diesel.
TPH-mo Total Petroleum Hydrocarbons as motor oil.
TBA t-butyl alcohol.
MTBE Methyl tertiary butyl ether.
DIPE di-isopropyl ether.
ETBE ethyl t-butyl ether.
TAME t-amyl methyl ether.
1,2-DCA 1,2-dichloroethane.
EDB ethylene dibromide.
< less than the laboratory reporting limits.

TABLE 4 DPE SYSTEM - GROUNDWATER ANAYLTICAL RESULTS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Sample Location	Sample Date	Concentrations (µg/L)					
		TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes
Influent							
	12/20/04	2,100	NA	440	110	77	340
	02/28/05	NA	1,700	550	2,500	410	4,300
	03/23/05	70,000	4,000	360	2,300	740	6,300
	03/28/05	7,900	1,100	240	1,100	150	1,900
	04/04/05	16,000	2,900	150	890	150	2,200
	04/18/05	17,000	990	610	2,300	300	3.500
	04/29/05	7,600	1,000	190	870	95	1,800
	05/13/05	15,000	4,200	130	530	78	2,000
	05/20/05	9,700	660	210	930	81	2,400
	06/09/05	13,000	1,200	360	1.700	150	2,900
	07/11/05	19,000	1,300	760	2,800	220	3.700
	08/01/05	25,000	3,200	490	2,600	150	4,200
	08/15/05	18,000	2,800	540	2,500	150	4,300
	09/06/05	10,000	2,900	310	1,400	35	3,000
	10/10/05	15,000	1,300	380	2,500	87	4,000
	11/07/05	17,000	2,400	330	2,700	200	3,800
	12/08/05	20,000	3,100	260	1,500	51	5,300
Midfluent							
	02/28/05	NA	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	03/23/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	03/28/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 0 50
	04/04/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	04/18/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	04/29/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	05/13/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	05/20/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	06/09/05	< 50	< 50	< 0 50	< 0 50	< 0.50	< 1 0
	07/11/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	08/01/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	08/15/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	09/06/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	10/10/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	11/07/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	12/08/05	< 50	80	< 0 50	< 0 50	< 0 50	< 1 0
Effluent							
	12/20/04	NA	NA	< 0 50	< 0 50	< 0 50	< 1 0
	02/28/05	NA	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	03/23/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	03/28/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 0 50
	04/04/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	04/18/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	04/29/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	05/13/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	05/20/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	06/09/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	07/11/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	08/01/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	08/15/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	09/06/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	10/10/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0
	11/07/05	< 50	< 50	< 0 50	< 0 50	0 78	< 1 0
	12/08/05	< 50	< 50	< 0 50	< 0 50	< 0 50	< 1 0

µg/L - micrograms per liter
TPH-g - Total Petroleum Hydrocarbons as gasoline
TPH-d - Total Petroleum Hydrocarbons as diesel
MTBE - Methyl tert-butyl ether

NA- Not analyzed

Reviewer: [signature]
Date: 3/3/6

TABLE 5 DPE SYSTEM - VAPOR ANALYTICAL RESULTS
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Sample Location	Date	Concentration (ppmv) by EPA Method 8015M/8020					POC Abatement Efficiency Based on Lab results
		TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	
Influent							
	02/28/05	5,400	77	260	45	270	
	03/23/05	6,100	92	340	54	340	
	03/28/05	3,300	40	170	25	140	
	04/04/05	14,000	150	730	120	730	
	04/18/05	3,100	46	160	27	170	
	04/29/05	37	0.77	2.5	0.34	2.2	
	05/13/05	4,800	72	300	62	380	
	05/20/05	5,600	61	310	60	450	
	06/09/05	3,121	34	138	18	144	
	07/11/05	1,300	15	50	5.7	52	
	08/01/05	920	14	50	5.9	41	
	08/15/05	870	10	42	4.0	37	
	09/06/05	1,100	10	52	4.3	41	
	10/10/05	1,900	18	86	7.9	68	
	11/07/05	2,700	19	150	17	190	
	12/08/05	1,400	58	470	63	550	
Effluent							
	02/28/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	99.7%
	03/23/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	99.8%
	03/28/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	99.6%
	04/04/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	99.9%
	04/18/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	99.5%
	04/29/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	62.2%
	05/13/05	< 14	< 0.15	1.40	0.54	4.60	99.7%
	05/20/05	< 14	< 0.15	< 0.13	< <0.11	0.41	99.8%
	06/09/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	99.6%
	07/11/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	98.9%
	08/01/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	98.5%
	08/15/05	< 14	< 0.15	0.39	< 0.11	0.47	98.4%
	09/06/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	98.7%
	10/10/05	< 14	< 0.15	< 0.13	< 0.11	< 0.23	99.3%
	11/07/05	< 11	< 0.15	< 0.13	< 0.11	< 0.23	99.5%
	12/08/05	< 11	< 0.15	< 0.13	< 0.11	< 0.23	99.0%

TPHg - Total petroleum hydrocarbons as gasoline
ppmv- Parts Per Million by Volume
POC- Precursor Organic Compound

Reviewer: [illegible]
Date: 3/3/16

TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) TPH-g	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* TPH-g	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
12/20/04	0.0	0%	0	0.0	2,100	440	0.00	0.00	0.00	0.00
02/23/05	0.0	0%	19,148	0.0			5.75	5.75	0.08	0.08
02/25/05	2.0	99%	25,840	2.3			2.01	7.77	0.03	0.11
02/28/05	3.0	100%	51,770	5.9	NA	550	7.79	15.56	0.12	0.23
03/04/05	1.5	38%	63,010	5.1			3.38	18.94	0.04	0.27
03/07/05	1.4	48%	73,950	5.3			3.29	22.23	0.04	0.31
03/11/05	4.0	98%	92,050	3.2			5.44	27.67	0.07	0.38
03/14/05	3.1	100%	93,080	0.2			0.31	27.98	0.00	0.38
03/21/05	5.1	73%	128,800	4.9			10.74	38.71	0.14	0.52
03/21/05	0.0	0%	128,810	0.0			0.00	38.71	0.00	0.52
03/23/05	0.6	30%	133,270	5.3	70,000	360	2.60	41.32	0.01	0.53
03/25/05	0.6	26%	137,720	5.4			1.45	42.76	0.01	0.54
03/28/05	2.6	94%	156,980	5.2	7,900	240	1.27	44.03	0.04	0.58
03/30/05	2.2	98%	172,040	4.8			1.50	45.53	0.02	0.61
04/01/05	1.7	95%	177,610	2.3			0.55	46.09	0.01	0.61
04/04/05	1.3	45%	186,830	4.8	16,000	150	1.23	47.32	0.01	0.63
04/05/05	0.5	51%	190,620	5.1			0.52	47.84	0.01	0.64
04/07/05	1.3	64%	199,220	4.7			1.18	49.02	0.03	0.67
04/08/05	0.5	53%	203,140	5.0			0.54	49.56	0.01	0.68
04/11/05	0.5	18%	206,960	4.9			0.53	50.08	0.01	0.69
04/12/05	0.9	96%	213,660	4.9			0.92	51.01	0.02	0.71
04/14/05	2.1	100%	222,830	3.1			1.26	52.27	0.03	0.74
04/15/05	0.1	14%	223,760	4.7			0.13	52.40	0.00	0.74
04/18/05	0.0	1%	223,960	6.7	17,000	610	0.03	52.42	0.00	0.74
04/18/05	0.0	0%	223,960	0.0			0.00	52.42	0.00	0.74
04/20/05	1.5	76%	234,520	4.9			1.08	53.51	0.04	0.78
04/22/05	2.0	99%	244,950	7.4			1.07	54.58	0.03	0.81
04/27/05	0.7	13%	249,050	15.2			0.42	55.00	0.01	0.83
04/29/05	1.5	76%	257,120	5.6	7,600	190	0.51	55.51	0.01	0.84

TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) TPH-g	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* TPH-g	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
05/02/05	1.3	44%	265,580	8.6			0.80	56.30	0.01	0.85
05/04/05	0.8	41%	270,850	11.8			0.50	56.80	0.01	0.86
05/06/05	1.9	99%	273,650	2.9			0.26	57.07	0.00	0.86
05/09/05	1.5	47%	273,980	1.5			0.03	57.10	0.00	0.86
05/11/05	0.0	1%	274,000	19.4			0.00	57.10	0.00	0.86
05/13/05	1.0	59%	278,000	2.8	15,000	130	0.50	57.60	0.00	0.87
05/18/05	2.5	47%	285,030	3.1			0.72	58.32	0.01	0.88
05/20/05	1.0	61%	291,370	8.8	9,700	210	0.51	58.83	0.01	0.89
05/26/05	3.4	57%	299,570	2.9			0.78	59.61	0.02	0.91
05/31/05	5.2	99%	325,600	4.5			2.46	62.07	0.06	0.97
06/03/05	1.8	65%	334,930	13.8			0.88	62.96	0.02	0.99
06/09/05	4.2	70%	347,080	3.5	13,000	360	1.32	64.27	0.04	1.03
06/10/05	1.1	100%	353,340	11.2			0.84	65.11	0.03	1.06
06/13/05	1.9	63%	363,280	5.9			1.33	66.43	0.05	1.10
06/17/05	0.3	7%	363,650	24.5			0.05	66.48	0.00	1.11
06/20/05	1.8	62%	374,370	4.2			1.43	67.91	0.05	1.16
06/23/05	2.2	77%	384,660	6.5			1.37	69.29	0.05	1.20
06/27/05	1.2	30%	389,010	8.6			0.58	69.87	0.02	1.22
06/30/05	1.3	45%	396,470	6.2			1.00	70.86	0.03	1.26
07/05/05	3.2	64%	405,550	3.6			1.21	72.07	0.04	1.30
07/08/05	0.1	2%	405,910	98.3			0.05	72.12	0.00	1.30
07/11/05	1.5	52%	410,020	2.0	19,000	760	0.65	72.77	0.03	1.33
07/15/05	4.0	94%	410,880	0.9			0.16	72.93	0.00	1.33
07/18/05	2.2	79%	416,100	1.9			0.96	73.89	0.03	1.36
07/22/05	3.3	80%	423,910	2.7			1.43	75.32	0.04	1.40
07/25/05	1.0	36%	426,060	6.8			0.39	75.71	0.01	1.41
07/29/05	4.0	99%	435,140	2.0			1.67	77.38	0.05	1.46
08/01/05	3.0	100%	441,790	3.6	25,000	490	1.39	78.77	0.03	1.49
08/05/05	3.4	82%	449,130	2.9			1.32	80.08	0.03	1.52

TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) TPH-g	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* TPH-g	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
08/08/05	2.8	97%	455,200	3.4			1.09	81.17	0.03	1.54
08/12/05	3.3	81%	462,270	2.8			1.27	82.44	0.03	1.57
08/15/05	3.0	100%	468,700	3.1	18,000	540	0.96	83.40	0.03	1.60
08/19/05	3.9	99%	476,890	2.6			0.96	84.36	0.03	1.63
08/22/05	3.1	100%	483,190	3.2			0.74	85.09	0.02	1.66
08/29/05	7.0	100%	497,280	2.0			1.64	86.74	0.05	1.71
09/06/05	8.1	99%	499,380	1.4	10,000	310	0.25	86.98	0.01	1.71
09/09/05	2.8	99%	505,100	1.9			0.60	87.58	0.02	1.73
09/15/05	6.2	99%	517,140	2.0			1.25	88.83	0.03	1.76
09/19/05	4.0	100%	524,690	3.4			0.79	89.62	0.02	1.79
09/23/05	4.0	98%	533,140	2.8			0.88	90.50	0.02	1.81
09/26/05	2.1	74%	540,516	5.3			0.77	91.27	0.02	1.83
10/03/05	2.1	30%	543,336	3.3			0.29	91.56	0.01	1.84
10/10/05	7.0	100%	557,440	1.7	15,000	380	1.47	93.03	0.04	1.88
10/14/05	3.9	100%	557,860	2.6			0.06	93.09	0.00	1.88
10/17/05	3.1	100%	557,980	0.1			0.02	93.10	0.00	1.88
10/21/05	2.3	56%	558,100	0.1			0.02	93.12	0.00	1.88
10/24/05	3.2	100%	558,340	0.1			0.03	93.15	0.00	1.88
10/28/05	3.7	94%	562,391	0.8			0.54	93.69	0.01	1.89
10/31/05	3.1	100%	569,085	2.4			0.89	94.59	0.02	1.91
11/04/05	3.9	100%	577,073	2.6			1.07	95.65	0.02	1.94
11/07/05	3.1	100%	583,268	3.2	17,000	330	0.83	96.48	0.02	1.96
11/11/05	4.0	100%	590,939	2.4			1.18	97.66	0.02	1.97
11/14/05	3.1	100%	596,620	3.0			0.88	98.54	0.01	1.99
11/18/05	4.0	100%	603,850	2.2			1.12	99.65	0.02	2.01
11/21/05	3.0	99%	609,160	2.9			0.82	100.47	0.01	2.02
11/28/05	7.0	100%	621,840	1.8			1.96	102.43	0.03	2.05
12/02/05	3.2	80%	627,560	4.0			0.88	103.31	0.01	2.06
12/08/05	6.1	100%	638,590	1.9	20,000	260	1.70	105.01	0.03	2.09

TABLE 6 DPE SYSTEM OPERATION AND PERFORMANCE DATA - GROUNDWATER
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Cumulative Total (gallons)	Average Operational Flow rate (gpm)	Influent Conc. (µg/L) TPH-g	Influent Conc. (µg/L) Benzene	Est. Pounds Removed* TPH-g	Cumulative Pounds Removed TPH-g	Est. Pounds Removed* Benzene	Cumulative Pounds Removed Benzene
12/12/05	3.9	100%	645,340	3.2			1.04	106.05	0.01	2.11
12/16/05	3.9	98%	652,310	2.5			1.08	107.13	0.02	2.12
12/19/05	3.0	99%	657,670	2.9			0.83	107.95	0.01	2.13
12/23/05	4.0	100%	664,650	2.2			1.08	109.03	0.02	2.15
12/30/05	7.0	100%	677,540	2.0			1.99	111.02	0.03	2.18
Total	**239**		**677,540**	**1.3**			**111.02**		**2.18**	

Gallons dicharged from 2/23/05 to 3/30/05 **172040**
Gallons dicharged from 3/30/05 to 6/30/05 **224430**
Gallons dicharged from 7/1/05 to 12/30/05 **281070**

* Est. Mass TPH Removed (pounds) = Average influent conc. (µg/L) * period flow total (gallons) * 1 lb/454 g * 1/1,000,000 * 3.785 L/gallon

Note: MW3 was turn off on 15 July 2005.

TPH - Total Petroleum Hydrocarbons (measured as Total Petroleum Hydrocarbons as both gasoline and diesel as analyzed by EPA Method 8015 modified).

gpm - Gallons per minute. µg/L - Micrograms per liter.

NM - Not Measured.

t - Extraction from well MW3 was discontinued on 15 July 2005

Reviewer: QCR
Date: 3/3/6

G:\Projects\Strough Family Trust\Master O&M\[O&M Tables Strough.xls]Analytical (water)

TABLE 7 **DPE SYSTEM OPERATION AND PERFORMANCE DATA - VAPOR**
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
02/23/05	0.0	0%	0	55	4,000		77	0.0	1.54	0.00	0.00
02/25/05	2.0	99%	149,448	52	4,000			211.7	1.46	2.56	0.00
02/28/05	3.0	100%	257,712	59	3,996	5,400		365.0	0.11	4.42	0.00
03/04/05	1.5	38%	85,878	39	NM			129.5	0.00	1.47	0.00
03/07/05	1.4	48%	65,583	32	3,996			98.9	0.12	1.12	0.00
03/11/05	4.0	98%	176,347	31	NM			265.9	0.00	3.02	0.00
03/14/05	3.1	100%	144,576	32	4,026			218.0	0.12	2.48	0.00
03/21/05	5.1	73%	233,645	32	NM			352.4	0.00	4.01	0.00
03/21/05	0.0	0%	0	0	0			0.0	0.00	0.00	0.00
03/23/05	0.6	30%	38,493	46	4,000	6,100	92	61.6	2.12	0.72	0.00
03/25/05	0.6	26%	26,082	32	4,000			32.2	2.47	0.35	0.00
03/28/05	2.6	94%	117,558	32	4,000	3,300	40	101.7	3.00	0.95	0.00
03/30/05	2.2	98%	185,496	59	NM		150	155.7	0.00	5.65	0.00
04/01/05	1.7	95%	76,923	32	4,000			64.6	2.29	1.53	0.00
04/04/05	1.3	45%	60,480	32	4,000			50.8	2.29	1.20	0.00
04/05/05	0.5	51%	23,247	32	4,000			19.5	2.29	0.46	0.00
04/07/05	1.3	64%	57,834	32	4,000			48.5	2.88	1.15	0.00
04/08/05	0.5	53%	24,759	32	4,000			20.8	3.06	0.49	0.00
04/11/05	0.5	18%	24,759	32	4,000			20.8	2.29	0.49	0.00
04/12/05	0.9	96%	43,092	32	4,000			36.2	2.29	0.86	0.00
04/14/05	2.1	100%	196,812	66	4,000			165.2	9.37	3.91	0.00
04/15/05	0.1	14%	6,237	32	4,000			5.2	1.82	0.12	0.00
04/18/05	0.0	1%	945	32	4,000	3,100	46	0.8	10.59	0.01	0.00
04/18/05	0.0	0%	0	32	4,000			0.0	4.06	0.00	0.00
04/20/05	1.5	76%	69,312	32	4,000			28.5	4.06	0.33	0.00
04/22/05	2.0	99%	91,008	32	1,978			37.4	4.06	0.43	0.00
04/27/05	0.7	13%	30,051	32	4,000			12.4	1.18	0.14	0.00
04/29/05	1.5	76%	68,418	32	3,984	37	0.77	0.7	2.47	0.01	0.00
05/02/05	1.3	44%	60,480	32	4,000			38.4	10.59	0.45	0.00
05/04/05	0.8	41%	36,666	32	NM			23.3	0.00	0.27	0.00
05/06/05	1.9	99%	163,548	59	3,982			103.7	2.75	1.21	0.00
05/09/05	1.5	47%	123,900	59	NM			78.6	0.00	0.91	0.00
05/11/05	0.0	1%	567	32	904			0.4	0.00	0.00	0.00
05/12/05	0.7	100%	70,092	66	NM			44.5	0.00	0.52	0.00
05/13/05	1.0	59%	45,927	32	824	4,800	72	57.8	0.35	0.67	0.00
05/18/05	2.5	47%	185,016	52	789			252.3	1.55	2.50	0.01
05/20/05	1.0	61%	47,628	32	884	5,600	61	70.0	0.00	0.59	0.00

TABLE 7 **DPE SYSTEM OPERATION AND PERFORMANCE DATA - VAPOR**
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
05/26/05	3.4	57%	156,114	32	816			178.5	0.00	1.51	0.00
05/31/05	5.2	99%	237,195	32	920			271.3	0.00	2.30	0.01
06/03/05	1.8	65%	80,514	32	782			92.1	0.35	0.78	0.00
06/09/05	4.2	70%	360,018	59	1,059	3,121	34	294.7	0.00	2.52	0.01
06/10/05	1.1	100%	97,350	59	971			56.4	0.00	0.49	0.00
06/13/05	1.9	63%	160,716	59	NM			93.2	0.00	0.81	0.00
06/17/05	0.3	7%	13,230	32	1,126			7.7	0.35	0.07	0.00
06/20/05	1.8	62%	63,504	24	1,218			36.8	0.27	0.32	0.00
06/23/05	2.2	77%	211,860	66	598			122.8	3.45	1.06	0.01
06/27/05	1.2	30%	53,487	32	741			31.0	0.94	0.27	0.00
06/30/05	1.3	45%	99,247	52	621			57.5	0.00	0.50	0.00
07/05/05	3.2	64%	241,145	52	NM			139.8	0.00	1.21	0.01
07/08/05	0.1	2%	5,664	59	NM			3.3	0.00	0.03	0.00
07/11/05	1.5	52%	113,568	52	179	1,300	15	38.7	0.00	0.35	0.00
07/15/05	4.0	94%	296,400	52	127			86.3	0.00	0.87	0.01
07/18/05	2.2	79%	209,088	66	191			60.9	0.00	0.62	0.01
07/22/05	3.3	80%	114,336	24	2,656			33.3	0.00	0.34	0.00
07/25/05	1.0	36%	38,064	26	891			11.1	0.00	0.11	0.00
07/29/05	4.0	99%	428,850	75	1,850			124.8	0.00	1.26	0.01
08/01/05	3.0	100%	126,846	29	436	920	14	30.6	0.00	0.36	0.00
08/05/05	3.4	82%	241,500	50	718			56.7	0.00	0.59	0.01
08/08/05	2.8	97%	183,816	46	396			43.1	0.00	0.45	0.01
08/12/05	3.3	81%	215,556	46	1,160			50.6	0.00	0.52	0.01
08/15/05	3.0	100%	205,860	47	417	870	10	47.0	0.00	0.42	0.01
08/19/05	3.9	99%	209,124	37	1,445			54.0	0.00	0.42	0.01
08/22/05	3.1	100%	183,270	41	440			47.3	0.00	0.37	0.01
08/29/05	7.0	100%	322,752	32	491			83.4	0.00	0.66	0.01
09/06/05	8.1	99%	197,880	17	521	1,100	10	51.1	0.00	0.40	0.01
09/09/05	2.8	99%	149,577	37	482			58.8	0.00	0.42	0.00
09/15/05	6.2	99%	320,112	36	516			125.9	0.00	0.91	0.01
09/19/05	4.0	100%	273,600	48	289			107.6	0.00	0.78	0.01
09/23/05	4.0	98%	230,160	40	300			90.5	0.00	0.65	0.01
09/26/05	2.1	74%	164,010	55	590			64.5	0.00	0.47	0.00
10/03/05	2.1	30%	110,160	36	328			43.3	5.38	0.31	0.00
10/10/05	7.0	100%	363,960	36	4,903	1,900	18	143.2	0.00	1.03	0.01
10/14/05	3.9	100%	204,765	37	9			123.5	0.00	0.77	0.01
10/17/05	3.1	100%	160,746	37	9			97.0	1.50	0.60	0.00
10/21/05	2.3	56%	100,116	31	9			60.4	1.96	0.38	0.00
10/24/05	3.2	100%	143,957	31	9			86.8	1.28	0.54	0.00
10/28/05	3.7	94%	159,485	30	934			96.2	2.05	0.60	0.00
10/31/05	3.1	100%	135,719	30	912			81.9	1.24	0.51	0.00

TABLE 7 **DPE SYSTEM OPERATION AND PERFORMANCE DATA - VAPOR**
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORINA

Date	Days Operational	Percent Operational	Throughput Cu-ft	Average Flow rate (CFM)	Influent Field FID/PID Concentration (ppmv)	Influent Lab Concentration TPH-g (ppmv)	Influent Lab Concentration Benzene (ppmv)	Estimated Pounds TPH-g Removed	Estimated Pounds TPH-g Emitted	Estimated Pounds Benzene Removed	Estimated Pounds Benzene Emitted
11/04/05	3.9	100%	164,280	30	804			99.1	0.00	0.62	0.01
11/07/05	3.1	100%	133,726	30	915	2,700	19	80.7	0.00	0.50	0.00
11/11/05	4.0	100%	207,612	37	833			111.6	0.00	1.62	0.01
11/14/05	3.1	100%	193,776	44	832			104.2	0.00	1.51	0.01
11/21/05	3.0	43%	193,860	45	1,044			104.2	0.00	1.51	0.01
11/28/05	7.0	100%	421,344	42	1,135			226.5	1.26	3.29	0.01
12/08/05	6.1	61%	389,756	44	930	1,400	58	143.1	0.82	3.05	0.01
12/12/05	3.9	100%	242,953	43	866			89.2	1.78	2.86	0.01
12/16/05	3.9	98%	233,604	42	430			85.8	0.00	2.75	0.01
12/19/05	3.0	99%	185,760	43	430			68.2	0.00	2.19	0.01
12/23/05	4.0	100%	234,270	41	430			86.0	0.00	2.76	0.01
12/30/05	7.0	100%	394,992	39	430			145.0	0.87	4.65	0.01
Total/Average	**232.3**	**75%**	**13,367,771**	**30**				**7,900**		**99.9**	

[a] Est. pounds/day removed/emitted TPH-g = Average Combined well conc.(ppm$_v$) * 4.2(µg/L/ppm$_v$) * Average combined well flowrate (CFM) * 1440 min/day * 1 g/1,000,000 µg * 0.002205 lbs/g * 28.32 L/ft3

[b] Est. pounds/day removed/emitted Benzene = Average Combined well conc.(ppm$_v$) * 3.25(µg/L/ppm$_v$) * Average combined well flowrate (CFM) * 1440 min/day * 1 g/1,000,000 µg * 0.002205 lbs/g * 28.32 L/ft3

Cumulative Total - Total as measured since system start-up.

CFM - Cubic feet per minute.

TPH-g - Total Petroleum Hydrocarbons as gasoline.

ppmv - Parts Per Million by Volume.

* Extraction from well MW3 was discontinued on 15 July 2005

Reviewer: [signature]
Date: 3/3/6

TABLE 8 GROUNDWATER MONITORING SCHEDULE
FORMER VAL STROUGH CHEVROLET, 327 34th STREET OAKLAND, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		BTEX and TPH-g	MTBE	TEPH
MW1	Q	S	S	S
MW2	Q	Q	Q	Q
MW3	Q	Q	Q	Q
MW4	Q	Q	Q	Q
MW5	Q	A	A	A
MW6	Q	S	S	S
MW7	Q	A	A	A

Q = Quarterly.
S = Semiannual.
A = Annual.

BTEX = Benzene, toluene, ethylbenzene, total xylenes.
MTBE = Methyl tertiary butyl ether.
TPH-g = Total Petroleum Hydrocarbons as gasoline.
TEPH = Total Extractable Petroleum Hydrocarbons, includes TPH-diesel and TPH-motor oil.

Appendix A

Protocols for Groundwater Monitoring

PROTOCOLS FOR GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix B

Field Documents

ETIC
Engineering, Inc.

MONITORING WELL DATA FORM

Client: STROUGH FAMILY TRUST	Date: 2/12/05
Project Number: TMSFT.1 TASK 11	Station Number SFT
Site Location: 327 34TH ST. OAKLAND , CA.	Samplers: CM / RR

MONITORING WELL NUMBER	DEPTH TO WATER (TOC)	DEPTH TO PRODUCT (TOC)	APPARENT PRODUCT THICKNESS	AMOUNT OF PRODUCT REMOVED	MONITORING WELL INTEGRITY	DEPTH TO BOTTOM (TOC)	GENERAL FIELD COMMENTS
MW1	22.39					30.43	2"
MW2*	25.40					31.87	2"
MW3*	23.30					32.12	2"
MW4	21.89					27.62	2"
MW5	23.84					26.41	2"
MW6	18.33					26.69	2"
MW7	15.99					34.45	2"

* POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER

ETIC ENGINEERING

Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST Well No: MW 2 Date: 12/12/05

Project No: TMSFT1. TASK 11 Personnel: C. Mitchell

GAUGING DATA

Water Level Measuring Method: WLM / (IP)

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
		(-)		(=)		(X)	1	2	4	6		(=)	
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATERRA / (BAILER) / SUB PURGE RATE GPM

Time		System up on				
Volume Purge (gal)		Well Vol			Sampled	
Temperature (C)		off Well			with bailer	
pH						
Spec.Cond.(umhos)						
DO (mg/L)						
ORP						
Turbidity/Color						
Odor (Y/N)						
Dewatered (Y/N)						

Comments/Observations:

Time Sampled: 16:10 Approximate Depth to Water During Sampling: 25.40 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW2	4	VOA	HCL	40 ml		SEE COC
MW2	2	AMBER	NONE	1L		SEE COC

Total Purge Volume: (gallons) Disposal: System

Weather Conditions: OK BOLTS (Y) / N

Condition of Well Box and Casing at Time of Sampling: OK CAP & LOCK (Y) / N

Well Head Conditions Requiring Correction: None GROUT (Y) / N

Problems Encountered During Purging and Sampling: None WELL BOX (Y) / N

Comments: SECURED (Y) / N

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ETIC ENGINEERING

Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST Well No: MW-3 Date: 12/13/05

Project No: TMSFT1. TASK 11 Personnel: C. Michael

GAUGING DATA

Water Level Measuring Method: WLM / (IP)

	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
WELL PURGE VOLUME CALCULATION		(-)		(=)		(X)	1	2	4	6		(=)	
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATERRA / (BAILER) / SUB PURGE RATE GPM

Time		System purged			low	
Volume Purge (gal)		approx one		liv.	prior	
Temperature (C)		to		sampling		
pH						
Spec.Cond.(umhos)						
DO (mg/L)						
ORP						
Turbidity/Color						
Odor (Y/N)						
Dewatered (Y/N)						

Comments/Observations:

Time Sampled: 1645 Approximate Depth to Water During Sampling: (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW3	4	VOA	HCL	40 ml		SEE COC
MW3	2	AMBER	NONE	1L		SEE COC

Total Purge Volume: (gallons) Disposal: System

Weather Conditions: COLD BOLTS Y / (N)

Condition of Well Box and Casing at Time of Sampling: GOOD CAP & LOCK (Y) / N

Well Head Conditions Requiring Correction: NONE GROUT (Y) / N

Problems Encountered During Purging and Sampling: WELL BOX (Y) / N

Comments: SECURED (Y) / N

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ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST Well No: MW4 Date: 12/12/12

Project No: TMSFT1. TASK 11 Personnel: R. CLE.

GAUGING DATA

Water Level Measuring Method: ~~WLM~~ / (IP)

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	27.62	−	21.89	=	5.73	X	1	(2)	4	6	0.92	=	2.76
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: WATERRA / BAILER / SUB PURGE RATE GPM

Time	1512	1513	1514			
Volume Purge (gal)	1	2	3			
Temperature (C)	18.52	18.47	18.50			
pH	6.70	6.62	6.62			
Spec.Cond.(umhos)	914	917	909			
DO (mg/L)	2.29	2.44	2.05			
ORP	11.8	16.1	17.4			
Turbidity/Color	CLEAR/BRN	CLEAR/BRN	CLEAR/BRN			
Odor (Y/N)	N	N	N			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

Time Sampled: 1517 Approximate Depth to Water During Sampling: 23 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW4	4	VOA	HCL	40 ml		SEE COC
MW4	2	AMBER	NONE	1L		SEE COC

Total Purge Volume: 3 (gallons) Disposal: System

Weather Conditions: OK

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: N

Problems Encountered During Purging and Sampling: N

Comments:

BOLTS (Y) / N

CAP & LOCK (Y) / N

GROUT (Y) / N

WELL BOX (Y) / N

SECURED (Y) / N

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: STROUGH FAMILY TRUST Well No: MW6- Date: 12/12/12

Project No: TMSFT1 TASK 11 Personnel: Rick R.

GAUGING DATA

Water Level Measuring Method: ~~WLM~~ / IP

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
							1	(2)	4	6			
	26.69	−	18.33	=	8.36	X	0.04	0.16	0.64	1.44	1.33	=	3.99

PURGING DATA

Purge Method: (WATERRA) / BAILER / SUB PURGE RATE GPM

Time	1551	1553	1555			
Volume Purge (gal)	1.5	3.0	4.5			
Temperature (C)	18.68	18.89	18.87			
pH	6.61	6.61	6.61			
Spec.Cond.(umhos)	823	849	856			
DO (mg/L)	1.68	1.64	1.52			
ORP	-131.7	-132.7	-134.3			
Turbidity/Color	Silty/BRN	Silty/BRN	Silty/BRN			
Odor (Y/N)	N	N	N			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

Time Sampled: 1558 Approximate Depth to Water During Sampling: 19 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW6	4	VOA	HCL	40 ml		SEE COC
MW6	2	AMBER	NONE	1L		SEE COC

Total Purge Volume: 4.5 (gallons) Disposal: System

Weather Conditions: OK BOLTS (Y) / N

Condition of Well Box and Casing at Time of Sampling: OK CAP & LOCK (Y) / N

Well Head Conditions Requiring Correction: N GROUT (Y) / N

Problems Encountered During Purging and Sampling: N WELL BOX (Y) / N

Comments: SECURED (Y) / N

G:\USERS\DFitzgerald\STROUGH FAMILY TRUST (2)\[purge form.xls]Sheet1

Appendix C

Laboratory Analytical Reports and Chain-of-Custody Documentation

ETIC ENGINEERING

O & M
Laboratory Analytical Results

ANALYTICAL REPORT

Job Number: 720-339-1

Job Description: Strough Family Trust

For:

ETIC Engineering, Inc.
1333 Broadway
Suite 1015
Oakland, CA 94612

Attention: Ms. Kathy Brandt

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
11/30/2005

cc: Mr. Stephen Lao

METHOD SUMMARY

Client: ETIC Engineering, Inc Job Number: 720-339-1

Description	Lab Location	Method	Preparation Method
Matrix: Air-Florida			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge and Trap with Tedlar Bags (72 Hour Hold	STL-SF		SW846 5030B
Volatile Compounds by GC/MS	STL-SF	SW846 8260B	
Purge and Trap with Tedlar Bags (72 Hour Hold	STL-SF		SW846 5030B
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge-and-Trap	STL-SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	STL-SF		SW846 3510C
Silica Gel Cleanup	STL-SF		SW846 3630C

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-339-1	EFFLUENT	Water	11/07/2005 1025	11/07/2005 1632
720-339-2	MIDFLUENT	Water	11/07/2005 1039	11/07/2005 1632
720-339-3	INFLUENT	Water	11/07/2005 1102	11/07/2005 1632
720-339-4	OUTLET	Air-Florida Tedlar	11/07/2005 1120	11/07/2005 1632
720-339-5	INLET	Air-Florida Tedlar	11/07/2005 1122	11/07/2005 1632
720-339-6	MW2	Water	11/07/2005 1203	11/07/2005 1632
720-339-7	MW3	Water	11/07/2005 1223	11/07/2005 1632

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **EFFLUENT**

Lab Sample ID: 720-339-1
Client Matrix: Water

Date Sampled: 11/07/2005 1025
Date Received: 11/07/2005 1632

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1 0
Date Analyzed: 11/08/2005 1708
Date Prepared: 11/08/2005 1708

Analysis Batch: 720-1581

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0 50
Toluene	ND		0 50
Ethylbenzene	0 78		0 50
Xylenes, Total	ND		1 0
Gasoline	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	111	77 - 121
1,2-Dichloroethane-d4	118	73 - 130

Client: ETIC Engineering, Inc. Job Number: 720-339-1

Client Sample ID: **MIDFLUENT**

Lab Sample ID: 720-339-2
Client Matrix: Water

Date Sampled: 11/07/2005 1039
Date Received: 11/07/2005 1632

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1 0
Date Analyzed: 11/08/2005 1729
Date Prepared: 11/08/2005 1729

Analysis Batch: 720-1581

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0 50
Toluene	ND		0 50
Ethylbenzene	ND		0 50
Xylenes, Total	ND		1 0
Gasoline	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	110	77 - 121
1,2-Dichloroethane-d4	114	73 - 130

Client: ETIC Engineering, Inc. Job Number: 720-339-1

Client Sample ID: **INFLUENT**

Lab Sample ID: 720-339-3
Client Matrix: Water

Date Sampled: 11/07/2005 1102
Date Received: 11/07/2005 1632

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 11/11/2005 0052
Date Prepared: 11/11/2005 0052

Analysis Batch: 720-1689

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	330		25
Toluene	2700		25
Ethylbenzene	200		25
Xylenes, Total	3800		50
Gasoline	17000		2500

Surrogate	%Rec	Acceptance Limits
Toluene-d8	110	77 - 121
1,2-Dichloroethane-d4	103	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **OUTLET**

Lab Sample ID: 720-339-4
Client Matrix: Air-Florida

Date Sampled: 11/07/2005 1120
Date Received: 11/07/2005 1632

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1 0
Date Analyzed: 11/08/2005 0533
Date Prepared: 11/08/2005 0533

Analysis Batch: 720-2340

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (mg/m3)	Qualifier	RL
Benzene	ND		0 50
Ethylbenzene	ND		0.50
Toluene	ND		0 50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	117	77 - 121
1,2-Dichloroethane-d4	99	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **INLET**

Lab Sample ID: 720-339-5
Client Matrix: Air-Florida

Date Sampled: 11/07/2005 1122
Date Received: 11/07/2005 1632

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/08/2005 0533
Date Prepared: 11/08/2005 0533

Analysis Batch: 720-2340

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (mg/m3)	Qualifier	RL
Benzene	61		0.50
Ethylbenzene	73		0.50
Toluene	570		0.50
Xylenes, Total	840		1.0
Gasoline Range Organics (GRO)-C5-C12	9300		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	111	77 - 121
1,2-Dichloroethane-d4	99	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **MW2**

Lab Sample ID: 720-339-6
Client Matrix: Water

Date Sampled: 11/07/2005 1203
Date Received: 11/07/2005 1632

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 2 0
Date Analyzed: 11/12/2005 1438
Date Prepared: 11/12/2005 1438

Analysis Batch: 720-1768

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	46		1 0
Toluene	230		1 0
Ethylbenzene	36		1 0
Xylenes, Total	260		2 0
Gasoline	1200		100

Surrogate	%Rec	Acceptance Limits
Toluene-d8	112	77 - 121
1,2-Dichloroethane-d4	105	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **MW3**

Lab Sample ID: 720-339-7
Client Matrix: Water

Date Sampled: 11/07/2005 1223
Date Received: 11/07/2005 1632

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 11/08/2005 1832
Date Prepared: 11/08/2005 1832

Analysis Batch: 720-1581

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	1200		50
Toluene	5000		50
Ethylbenzene	530		50
Xylenes, Total	6900		100
Gasoline	37000		5000

Surrogate	%Rec	Acceptance Limits
Toluene-d8	113	77 - 121
1,2-Dichloroethane-d4	113	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **EFFLUENT**

Lab Sample ID: 720-339-1
Client Matrix: Water

Date Sampled: 11/07/2005 1025
Date Received: 11/07/2005 1632

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1 0
Date Analyzed: 11/10/2005 1225
Date Prepared: 11/09/2005 0833

Analysis Batch: 720-1730
Prep Batch: 720-1573

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel (C10-C28)	ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	70	60 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **MIDFLUENT**

Lab Sample ID: 720-339-2
Client Matrix: Water

Date Sampled: 11/07/2005 1039
Date Received: 11/07/2005 1632

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/10/2005 1252
Date Prepared: 11/09/2005 0833

Analysis Batch: 720-1730
Prep Batch: 720-1573

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel (C10-C28)	ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	72	60 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **INFLUENT**

Lab Sample ID: 720-339-3
Client Matrix: Water

Date Sampled: 11/07/2005 1102
Date Received: 11/07/2005 1632

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1 0
Date Analyzed: 11/10/2005 1319
Date Prepared: 11/09/2005 0833

Analysis Batch: 720-1730
Prep Batch: 720-1573

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel (C10-C28)	2400		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	72	60 - 130

Client: ETIC Engineering, Inc. Job Number: 720-339-1

Client Sample ID: MW2

Lab Sample ID: 720-339-6
Client Matrix: Water

Date Sampled: 11/07/2005 1203
Date Received: 11/07/2005 1632

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1 0
Date Analyzed: 11/10/2005 1347
Date Prepared: 11/09/2005 0833

Analysis Batch: 720-1730
Prep Batch: 720-1573

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel (C10-C28)	980		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	73	60 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **MW3**

Lab Sample ID: 720-339-7
Client Matrix: Water

Date Sampled: 11/07/2005 1223
Date Received: 11/07/2005 1632

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/15/2005 1122
Date Prepared: 11/14/2005 1218

Analysis Batch: 720-1798
Prep Batch: 720-1719

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel (C10-C28)	8200		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	78	60 - 130

Client: ETIC Engineering, Inc. Job Number: 720-339-1

Client Sample ID: **OUTLET**

Lab Sample ID: 720-339-4
Client Matrix: Air-Florida

Date Sampled: 11/07/2005 1120
Date Received: 11/07/2005 1632

8260B Volatile Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/08/2005 0853
Date Prepared: 11/08/2005 0853

Analysis Batch: 720-2267

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result (ppm v/v)	Qualifier	RL
Benzene	ND		0.15
Toluene	ND		0.13
Ethylbenzene	ND		0.11
Xylenes, Total	ND		0.23
Gasoline Range Organics (GRO)-C5-C12	ND		11

Surrogate	%Rec	Acceptance Limits
Toluene-d8	99	77 - 121
1,2-Dichloroethane-d4	113	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Client Sample ID: **INLET**

Lab Sample ID: 720-339-5
Client Matrix: Air-Florida

Date Sampled: 11/07/2005 1122
Date Received: 11/07/2005 1632

8260B Volatile Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1 0
Date Analyzed: 11/08/2005 0853
Date Prepared: 11/08/2005 0853

Analysis Batch: 720-2267

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result (ppm v/v)	Qualifier	RL
Benzene	19		0 15
Toluene	150		0 13
Ethylbenzene	17		0 11
Xylenes, Total	190		0 23
Gasoline Range Organics (GRO)-C5-C12	2700		11

Surrogate	%Rec	Acceptance Limits
Toluene-d8	99	77 - 121
1,2-Dichloroethane-d4	107	73 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ETIC Engineering, Inc

Job Number: 720-339-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-1581				
LCS 720-1581/5	Lab Control Spike	Water	8260B	
LCSD 720-1581/4	Lab Control Spike Duplicate	Water	8260B	
MB 720-1581/6	Method Blank	Water	8260B	
720-339-1	EFFLUENT	Water	8260B	
720-339-2	MIDFLUENT	Water	8260B	
720-339-7	MW3	Water	8260B	
Analysis Batch:720-1687				
LCS 720-1687/2	Lab Control Spike	Water	8260B	
LCSD 720-1687/1	Lab Control Spike Duplicate	Water	8260B	
MB 720-1687/3	Method Blank	Water	8260B	
Analysis Batch:720-1689				
LCS 720-1689/2	Lab Control Spike	Water	8260B	
LCSD 720-1689/1	Lab Control Spike Duplicate	Water	8260B	
MB 720-1689/3	Method Blank	Water	8260B	
720-339-3	INFLUENT	Water	8260B	
Analysis Batch:720-1768				
LCS 720-1768/2	Lab Control Spike	Water	8260B	
LCSD 720-1768/1	Lab Control Spike Duplicate	Water	8260B	
MB 720-1768/3	Method Blank	Water	8260B	
720-339-6	MW2	Water	8260B	
Analysis Batch:720-2340				
LCS 720-2340/2	Lab Control Spike	Air-Florida	8260B	
LCSD 720-2340/3	Lab Control Spike Duplicate	Air-Florida	8260B	
MB 720-2340/1	Method Blank	Air-Florida	8260B	
720-339-4	OUTLET	Air-Florida	8260B	
720-339-5	INLET	Air-Florida	8260B	

Client: ETIC Engineering, Inc

Job Number: 720-339-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 720-1573				
LCS 720-1573/2-B	Lab Control Spike	Water	3510C	
LCSD 720-1573/3-B	Lab Control Spike Duplicate	Water	3510C	
MB 720-1573/1-B	Method Blank	Water	3510C	
720-339-1	EFFLUENT	Water	3510C	
720-339-2	MIDFLUENT	Water	3510C	
720-339-3	INFLUENT	Water	3510C	
720-339-6	MW2	Water	3510C	
Prep Batch: 720-1719				
LCS 720-1719/14-B	Lab Control Spike	Water	3510C	
LCSD 720-1719/15-B	Lab Control Spike Duplicate	Water	3510C	
MB 720-1719/13-B	Method Blank	Water	3510C	
720-339-7	MW3	Water	3510C	
Analysis Batch:720-1730				
LCS 720-1573/2-B	Lab Control Spike	Water	8015B	720-1573
LCSD 720-1573/3-B	Lab Control Spike Duplicate	Water	8015B	720-1573
MB 720-1573/1-B	Method Blank	Water	8015B	720-1573
720-339-1	EFFLUENT	Water	8015B	720-1573
720-339-2	MIDFLUENT	Water	8015B	720-1573
720-339-3	INFLUENT	Water	8015B	720-1573
720-339-6	MW2	Water	8015B	720-1573
Analysis Batch:720-1798				
LCS 720-1719/14-B	Lab Control Spike	Water	8015B	720-1719
LCSD 720-1719/15-B	Lab Control Spike Duplicate	Water	8015B	720-1719
MB 720-1719/13-B	Method Blank	Water	8015B	720-1719
720-339-7	MW3	Water	8015B	720-1719
Air Toxics				
Analysis Batch:720-2267				
LCS 720-2267/2	Lab Control Spike	Air-Florida	8260B	
LCSD 720-2267/3	Lab Control Spike Duplicate	Air-Florida	8260B	
MB 720-2267/1	Method Blank	Air-Florida	8260B	
720-339-4	OUTLET	Air-Florida	8260B	
720-339-5	INLET	Air-Florida	8260B	

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Method Blank - Batch: 720-1581

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-1581/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/08/2005 1250
Date Prepared: 11/08/2005 1250

Analysis Batch: 720-1581
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	108	77 - 121
1,2-Dichloroethane-d4	96	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-1581

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-1581/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/08/2005 1040
Date Prepared: 11/08/2005 1040

Analysis Batch: 720-1581
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\110805
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-1581/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/08/2005 1101
Date Prepared: 11/08/2005 1101

Analysis Batch: 720-1581
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\110805\l
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	93	95	69 - 129	2	25		
Toluene	98	98	70 - 130	0	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	108	111	77 - 121
1,2-Dichloroethane-d4	97	97	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ETIC Engineering, Inc.

Job Number: 720-339-1

Method Blank - Batch: 720-1687

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-1687/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/08/2005 0739
Date Prepared: 11/08/2005 0739

Analysis Batch: 720-1687
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\110805\m
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	95	77 - 121
1,2-Dichloroethane-d4	95	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-1687

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-1687/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/08/2005 0656
Date Prepared: 11/08/2005 0656

Analysis Batch: 720-1687
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\110805\ls-wa-5
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-1687/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/08/2005 0718
Date Prepared: 11/08/2005 0718

Analysis Batch: 720-1687
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\110805\ld-wa-5-
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	100	99	69 - 129	1	25		
Toluene	102	101	70 - 130	2	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	98	97	77 - 121
1,2-Dichloroethane-d4	93	90	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Method Blank - Batch: 720-1689

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-1689/3
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 11/10/2005 1902
Date Prepared: 11/10/2005 1902

Analysis Batch: 720-1689
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0 50
Toluene	ND		0 50
Ethylbenzene	ND		0 50
Xylenes, Total	ND		1 0
Gasoline	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	109	77 - 121
1,2-Dichloroethane-d4	101	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-1689

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-1689/2
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 11/10/2005 1841
Date Prepared: 11/10/2005 1841

Analysis Batch: 720-1689
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\111005
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-1689/1
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 11/10/2005 1923
Date Prepared: 11/10/2005 1923

Analysis Batch: 720-1689
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\111005\l
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	90	87	69 - 129	4	25		
Toluene	91	90	70 - 130	1	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	112	109	77 - 121
1,2-Dichloroethane-d4	106	100	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc.

Job Number: 720-339-1

Method Blank - Batch: 720-1768

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-1768/3
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 11/12/2005 0742
Date Prepared: 11/12/2005 0742

Analysis Batch: 720-1768
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0 50
Toluene	ND		0 50
Ethylbenzene	ND		0 50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	107	77 - 121
1,2-Dichloroethane-d4	104	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-1768

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-1768/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/12/2005 0722
Date Prepared: 11/12/2005 0722

Analysis Batch: 720-1768
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\111205
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-1768/1
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 11/12/2005 1233
Date Prepared: 11/12/2005 1233

Analysis Batch: 720-1768
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200511\111205\l
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	90	83	69 - 129	8	25		
Toluene	95	90	70 - 130	6	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	109	110	77 - 121
1,2-Dichloroethane-d4	98	99	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Method Blank - Batch: 720-2340

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2340/1
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 11/08/2005 0533
Date Prepared: 11/08/2005 0533

Analysis Batch: 720-2340
Prep Batch: N/A
Units: mg/m3

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0 50
Ethylbenzene	ND		0 50
Toluene	ND		0 50
Xylenes, Total	ND		1 0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	95	77 - 121
1,2-Dichloroethane-d4	95	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2340

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-2340/2
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 11/08/2005 0533
Date Prepared: 11/08/2005 0533

Analysis Batch: 720-2340
Prep Batch: N/A
Units: mg/m3

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-2340/3
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 11/08/2005 0533
Date Prepared: 11/08/2005 0533

Analysis Batch: 720-2340
Prep Batch: N/A
Units: mg/m3

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	100	99	69 - 129	1	25		
Toluene	102	101	70 - 130	2	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	98	97	77 - 121
1,2-Dichloroethane-d4	93	90	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc.

Job Number: 720-339-1

Method Blank - Batch: 720-1573

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-1573/1-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2005 1103
Date Prepared: 11/09/2005 0833

Analysis Batch: 720-1730
Prep Batch: 720-1573
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel (C10-C28)	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	68	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-1573

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-1573/2-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2005 1131
Date Prepared: 11/09/2005 0833

Analysis Batch: 720-1730
Prep Batch: 720-1573
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-1573/3-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2005 1158
Date Prepared: 11/09/2005 0833

Analysis Batch: 720-1730
Prep Batch: 720-1573
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel (C10-C28)	72	69	60 - 130	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	73	71	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Method Blank - Batch: 720-1719

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-1719/13-B
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 11/15/2005 1122
Date Prepared: 11/14/2005 1218

Analysis Batch: 720-1798
Prep Batch: 720-1719
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel (C10-C28)	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	84	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-1719

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-1719/14-B
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 11/15/2005 1118
Date Prepared: 11/14/2005 1218

Analysis Batch: 720-1798
Prep Batch: 720-1719
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-1719/15-B
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 11/15/2005 1145
Date Prepared: 11/14/2005 1218

Analysis Batch: 720-1798
Prep Batch: 720-1719
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel (C10-C28)	80	77	60 - 130	5	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	94	90	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Method Blank - Batch: 720-2267

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2267/1
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 11/08/2005 0853
Date Prepared: 11/08/2005 0853

Analysis Batch: 720-2267
Prep Batch: N/A
Units: ppm v/v

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result	Qual	RL
Benzene	ND		0 15
Toluene	ND		0 13
Ethylbenzene	ND		0 11
Xylenes, Total	ND		0 23
Gasoline Range Organics (GRO)-C5-C12	Err		11

Surrogate	% Rec	Acceptance Limits
Toluene-d8	95	77 - 121
1,2-Dichloroethane-d4	91	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2267

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-2267/2
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 11/08/2005 0853
Date Prepared: 11/08/2005 0853

Analysis Batch: 720-2267
Prep Batch: N/A
Units: ppm v/v

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-2267/3
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 11/08/2005 0853
Date Prepared: 11/08/2005 0853

Analysis Batch: 720-2267
Prep Batch: N/A
Units: ppm v/v

Instrument ID: Varian 3900E
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	99	99	69 - 129	0	20		
Toluene	106	102	70 - 130	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	98	97	77 - 121
1,2-Dichloroethane-d4	90	87	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL 720-339

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: www.stl-inc.com

Reference #: 98952

Date 11/7/05 Page 1 of 1

Report To

Attn:Katherine Brandt, Saurabh Gogate
Company:ETIC Engineering
Address:1333 Broadway, Oakland, CA 94612
Phone:510-208-1600 x18 Email:kbrandt@eticeng.com
Bill To: ETIC Engineering
Sampled By: Ronald Chandra
Attn: Katherine Brandt
Phone:208-1600 x11

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☒ 8260B ☒ Gas w/ ☒ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☒ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H2O)	☐ Specific Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO4 ☐ NO3 ☐ F ☐ Br ☐ NO2 ☐ PO4	Number of Containers
Effluent	11/7	10:25	H2O		X		X															
Midfluent	11/7	10:39	H2O		X		X															
Influent	11/7	11:02	H2O		X		X															
Outlet	11/7	11:20	Air		X																	
Inlet	11/7	11:22	Air		X																	
MW2	11/7	12:03	H2O		X		X															
MW 3	11/7	12:23	H2O		X		X															

Project Info

Project Name: Strough Family Trust
Project#:TMSFT1 Task 10.8
PO#:
Credit Card#:

TAT: 5 Day | 72h | 48h | 24h | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☒ EDD ☐ State Tank Fund EDF
Special Instructions / Comments:

☒ Global ID T0600101644

Sample Receipt

of Containers: 37
Head Space:
Temp: 5°C / 20°C Amb
Conforms to record:

1) Relinquished by:
Signature: [signature] Time: 15:33
Printed Name: RONALD Date: 11/7/05
Company: ETIC

2) Relinquished by:
Signature: [signature] Time: 1672
Printed Name: MICHAEL FAN Date: 11/7/05
Company: ETIC

3) Relinquished by:
Signature: Time:
Printed Name: Date:
Company:

1) Received by:
Signature: [signature] Time: 1573
Printed Name: MICHAEL FAN Date: 11/7/05
Company: ETIC

2) Received by:
Signature: [signature] Time: 1682
Printed Name: MELISSA WONG Date: 11/7/05
Company: STL SF

3) Received by:
Signature: Time:
Printed Name: Date:
Company:

Rev. 07/02

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ETIC Engineering, Inc

Job Number: 720-339-1

Login Number: 339

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present	NA	
The cooler or samples do not appear to have been compromised or tampered with	True	
Samples were received on ice	True	
Cooler Temperature is acceptable	True	
Cooler Temperature is recorded	True	
COC is present	True	
COC is filled out in ink and legible	True	
COC is filled out with all pertinent information	True	
There are no discrepancies between the sample IDs on the containers and the COC	True	
Samples are received within Holding Time	True	
Sample containers have legible labels	True	
Containers are not broken or leaking	True	
Sample collection date/times are provided	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

ANALYTICAL REPORT

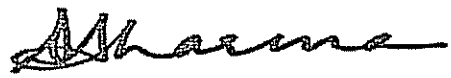
Job Number: 720-877-1

Job Description: Strough Family Trust

For:

ETIC Engineering, Inc
1333 Broadway
Suite 1015
Oakland, CA 94612

Attention: Ms Kathy Brandt



Dimple Sharma
Project Manager I
dsharma@stl-inc com
12/22/2005

cc: Mr Stephen Lao
Mr Thomas Neely

METHOD SUMMARY

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Description	Lab Location	Method	Preparation Method
Matrix: Air-Florida			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge and Trap with Tedlar Bags (72 Hour Hold	STL-SF		SW846 5030B
Volatile Compounds by GC/MS	STL-SF	SW846 8260B	
Purge and Trap with Tedlar Bags (72 Hour Hold	STL-SF		SW846 5030B

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

SAMPLE SUMMARY

Client: ETIC Engineering, Inc. Job Number: 720-877-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-877-1	OUTLET	Air-Florida Tedlar	12/08/2005 1415	12/08/2005 1745
720-877-2	INLET	Air-Florida Tedlar	12/08/2005 1410	12/08/2005 1745

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Client Sample ID: OUTLET

Lab Sample ID: 720-877-1
Client Matrix: Air-Florida

Date Sampled: 12/08/2005 1415
Date Received: 12/08/2005 1745

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1 0
Date Analyzed: 12/09/2005 0228
Date Prepared: 12/09/2005 0228

Analysis Batch: 720-2814

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (mg/m3)	Qualifier	RL
Benzene	ND		0 50
Ethylbenzene	ND		0 50
Toluene	ND		0 50
Xylenes, Total	ND		1 0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	83	77 - 121
1,2-Dichloroethane-d4	109	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Client Sample ID: INLET

Lab Sample ID: 720-877-2
Client Matrix: Air-Florida

Date Sampled: 12/08/2005 1410
Date Received: 12/08/2005 1745

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1 0
Date Analyzed: 12/10/2005 1044
Date Prepared: 12/10/2005 1044

Analysis Batch: 720-2959

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (mg/m3)	Qualifier	RL
Benzene	7 6		0 50
Ethylbenzene	11		0 50
Toluene	72		0 50
Xylenes, Total	97		1 0
Gasoline Range Organics (GRO)-C5-C12	940		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	87	77 - 121
1,2-Dichloroethane-d4	92	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Client Sample ID: OUTLET

Lab Sample ID: 720-877-1
Client Matrix: Air-Florida

Date Sampled: 12/08/2005 1415
Date Received: 12/08/2005 1745

8260B Volatile Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1 0
Date Analyzed: 12/09/2005 0228
Date Prepared: 12/09/2005 0228

Analysis Batch: 720-2831

Instrument ID: No equipment used
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result (ppm v/v)	Qualifier	RL
Benzene	ND		0 15
Toluene	ND		0 13
Ethylbenzene	ND		0 11
Xylenes, Total	ND		0.23
Gasoline Range Organics (GRO)-C5-C12	ND		11

Surrogate	%Rec	Acceptance Limits
Toluene-d8	84	77 - 121
1,2-Dichloroethane-d4	106	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Client Sample ID: INLET

Lab Sample ID: 720-877-2
Client Matrix: Air-Florida

Date Sampled: 12/08/2005 1410
Date Received: 12/08/2005 1745

8260B Volatile Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 5 0
Date Analyzed: 12/10/2005 1044
Date Prepared: 12/10/2005 1044

Analysis Batch: 720-3054

Instrument ID: No equipment used
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result (ppm v/v)	Qualifier	RL
Benzene	58		0 77
Toluene	470		0 65
Ethylbenzene	63		0 57
Xylenes, Total	550		1 1
Gasoline Range Organics (GRO)-C5-C12	1400		57

Surrogate	%Rec	Acceptance Limits
Toluene-d8	88	77 - 121
1,2-Dichloroethane-d4	89	73 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ETIC Engineering, Inc

Job Number: 720-877-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-2814				
LCS 720-2814/3	Lab Control Spike	Air-Florida	8260B	
LCSD 720-2814/2	Lab Control Spike Duplicate	Air-Florida	8260B	
MB 720-2814/4	Method Blank	Air-Florida	8260B	
720-877-1	OUTLET	Air-Florida	8260B	
Analysis Batch:720-2959				
LCS 720-2959/3	Lab Control Spike	Air-Florida	8260B	
LCSD 720-2959/2	Lab Control Spike Duplicate	Air-Florida	8260B	
MB 720-2959/4	Method Blank	Air-Florida	8260B	
720-877-2	INLET	Air-Florida	8260B	
Air Toxics				
Analysis Batch:720-2831				
LCS 720-2831/1	Lab Control Spike	Air-Florida	8260B	
LCSD 720-2831/2	Lab Control Spike Duplicate	Air-Florida	8260B	
MB 720-2831/3	Method Blank	Air-Florida	8260B	
720-877-1	OUTLET	Air-Florida	8260B	
Analysis Batch:720-3054				
LCS 720-3054/1	Lab Control Spike	Air-Florida	8260B	
LCSD 720-3054/2	Lab Control Spike Duplicate	Air-Florida	8260B	
MB 720-3054/3	Method Blank	Air-Florida	8260B	
720-877-2	INLET	Air-Florida	8260B	

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Method Blank - Batch: 720-2814

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2814/4
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/08/2005 2233
Date Prepared: 12/08/2005 2233

Analysis Batch: 720-2814
Prep Batch: N/A
Units: mg/m3

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0 50
Ethylbenzene	ND		0 50
Toluene	ND		0 50
Xylenes, Total	ND		1 0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	83	77 - 121
1,2-Dichloroethane-d4	93	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2814

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-2814/3
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/08/2005 2207
Date Prepared: 12/08/2005 2207

Analysis Batch: 720-2814
Prep Batch: N/A
Units: mg/m3

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-2814/2
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/08/2005 2259
Date Prepared: 12/08/2005 2259

Analysis Batch: 720-2814
Prep Batch: N/A
Units: mg/m3

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	112	113	69 - 129	1	25		
Toluene	116	120	70 - 130	3	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	85	84	77 - 121
1,2-Dichloroethane-d4	85	85	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Method Blank - Batch: 720-2959

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2959/4
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/10/2005 0914
Date Prepared: 12/10/2005 0914

Analysis Batch: 720-2959
Prep Batch: N/A
Units: mg/m3

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0 50
Ethylbenzene	ND		0 50
Toluene	ND		0 50
Xylenes, Total	ND		1 0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	85	77 - 121
1,2-Dichloroethane-d4	104	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2959

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-2959/3
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/10/2005 1110
Date Prepared: 12/10/2005 1110

Analysis Batch: 720-2959
Prep Batch: N/A
Units: mg/m3

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-2959/2
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/10/2005 0849
Date Prepared: 12/10/2005 0849

Analysis Batch: 720-2959
Prep Batch: N/A
Units: mg/m3

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\121
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	116	112	69 - 129	3	25		
Toluene	121	118	70 - 130	3	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	86	83	77 - 121
1,2-Dichloroethane-d4	91	86	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Method Blank - Batch: 720-2831

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2831/3
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/08/2005 2233
Date Prepared: 12/08/2005 2233

Analysis Batch: 720-2831
Prep Batch: N/A
Units: ppm v/v

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result	Qual	RL
Benzene	ND		0 15
Toluene	ND		0 13
Ethylbenzene	ND		0 11
Xylenes, Total	ND		0 23
Gasoline Range Organics (GRO)-C5-C12	ND		11

Surrogate	% Rec	Acceptance Limits
Toluene-d8	84	77 - 121
1,2-Dichloroethane-d4	90	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2831

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-2831/1
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/08/2005 2207
Date Prepared: 12/08/2005 2207

Analysis Batch: 720-2831
Prep Batch: N/A
Units: ppm v/v

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-2831/2
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/08/2005 2259
Date Prepared: 12/08/2005 2259

Analysis Batch: 720-2831
Prep Batch: N/A
Units: ppm v/v

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	112	113	69 - 129	1	20		
Toluene	116	108	70 - 130	7	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	87	85	77 - 121
1,2-Dichloroethane-d4	83	83	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Method Blank - Batch: 720-3054

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-3054/3
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/10/2005 0914
Date Prepared: 12/10/2005 0914

Analysis Batch: 720-3054
Prep Batch: N/A
Units: ppm v/v

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result	Qual	RL
Benzene	ND		0 15
Toluene	ND		0 13
Ethylbenzene	ND		0 11
Xylenes, Total	ND		0 23
Gasoline Range Organics (GRO)-C5-C12	ND		11

Surrogate	% Rec	Acceptance Limits
Toluene-d8	93	77 - 121
1,2-Dichloroethane-d4	101	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-3054

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-3054/1
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/10/2005 1110
Date Prepared: 12/10/2005 1110

Analysis Batch: 720-3054
Prep Batch: N/A
Units: ppm v/v

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-3054/2
Client Matrix: Air-Florida Tedlar Bag
Dilution: 1 0
Date Analyzed: 12/10/2005 0849
Date Prepared: 12/10/2005 0849

Analysis Batch: 720-3054
Prep Batch: N/A
Units: ppm v/v

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	116	112	69 - 129	3	20		
Toluene	121	118	70 - 130	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	87	85	77 - 121
1,2-Dichloroethane-d4	88	83	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

SEVERN TRENT STL

720-877

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: www.stl-inc.com

Reference #: ET 116384

Date 12/8/05 Page 1 of 1

Report To

Attn: Tom Neely, Stephen lao

Company: ETIC Engineering

Address: 2285 Morello Avenue, Pleasant Hill, CA94523

Phone: 925-602-7410 x38 Email: slao@eticeng.com

Bill To: ETIC Engineering

Sampled By: MICHAEL FISH

Attn: Stephen Lao

Phone: 925-602-4710

Analysis Request

Sample ID	Date	Time	Matrix	Preservative	TPH EPA ☐ 8015/8021 ☒ 8260B ☒ Gas w/ ☒ BTEX ☐ MTBE	Purgeable Aromatics ☐ BTEX EPA - ☐ 8021 ☐ 8260	TEPH EPA 8015M ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other ____	Fuel Tests EPA 8260B ☐ Gas ☐ BTEX Fuel Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664)	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ____	☐ W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	Number of Containers
Outlet	12/8/05	1405	Air		X																2
Inlet	↓	1410	Air		X																2

Project Info.

Project Name: Strough Family Trust

Project#: TMSFT1 Task 10.8

PO#:

Credit Card#:

Sample Receipt

of Containers: 4

Head Space:

Temp: 20°C

Conforms to record:

TAT: 5 Day | 72h | 48h | 24h | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☒ EDD ☐ State Tank Fund EDF

Special Instructions / Comments:

☒ Global ID T0600101644

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 17:45	Signature: Time:	Signature: Time:
Printed Name: MICHAEL FISH Date: 12/8/05	Printed Name: Date:	Printed Name: Date:
Company: ETIC ENGINEERING	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 17:45	Signature: Time:	Signature: Time:
Printed Name: SHAWN ARGUIRE Date: 12/7/05	Printed Name: Date:	Printed Name: Date:
Company: STL SF	Company:	Company:

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ETIC Engineering, Inc

Job Number: 720-877-1

Login Number: 877

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present	NA	
The cooler or samples do not appear to have been compromised or tampered with	True	
Samples were received on ice	True	
Cooler Temperature is acceptable	True	
Cooler Temperature is recorded	True	
COC is present	True	
COC is filled out in ink and legible	True	
COC is filled out with all pertinent information	True	
There are no discrepancies between the sample IDs on the containers and the COC	False	TIME discrepancy logged by COC, sample Outlet 1410, Inlet 1415
Samples are received within Holding Time	True	
Sample containers have legible labels	True	
Containers are not broken or leaking	True	
Sample collection date/times are provided	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
There is sufficient vol for all requested analyses, incl any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

ANALYTICAL REPORT

Job Number: 720-900-1

Job Description: Strough Family Trust

For:

ETIC Engineering, Inc.
1333 Broadway
Suite 1015
Oakland, CA 94612

Attention: Ms. Kathy Brandt

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
12/23/2005

cc: Mr. Stephen Lao

METHOD SUMMARY

Client: ETIC Engineering, Inc. Job Number: 720-900-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge-and-Trap	STL-SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	STL-SF		SW846 3510C
Silica Gel Cleanup	STL-SF		SW846 3630C

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

SAMPLE SUMMARY

Client: ETIC Engineering, Inc

Job Number: 720-900-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-900-1	EFFLUENT	Water	12/08/2005 1330	12/08/2005 1745
720-900-2	MIDFLUENT	Water	12/08/2005 1345	12/08/2005 1745
720-900-3	INFLUENT	Water	12/08/2005 1400	12/08/2005 1745

Client: ETIC Engineering, Inc

Job Number: 720-900-1

Client Sample ID: **EFFLUENT**

Lab Sample ID: 720-900-1
Client Matrix: Water

Date Sampled: 12/08/2005 1330
Date Received: 12/08/2005 1745

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1 0
Date Analyzed: 12/22/2005 1517
Date Prepared: 12/22/2005 1517

Analysis Batch: 720-3467

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0 50
Toluene	ND		0 50
Ethylbenzene	ND		0 50
Xylenes, Total	ND		1 0
Gasoline	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	109	77 - 121
1,2-Dichloroethane-d4	89	73 - 130

Client: ETIC Engineering, Inc.

Job Number: 720-900-1

Client Sample ID: **MIDFLUENT**

Lab Sample ID: 720-900-2
Client Matrix: Water

Date Sampled: 12/08/2005 1345
Date Received: 12/08/2005 1745

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/21/2005 0039
Date Prepared: 12/21/2005 0039

Analysis Batch: 720-3469

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\122005\72
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	94	77 - 121
1,2-Dichloroethane-d4	95	73 - 130

Client: ETIC Engineering, Inc. Job Number: 720-900-1

Client Sample ID: **INFLUENT**

Lab Sample ID: 720-900-3
Client Matrix: Water

Date Sampled: 12/08/2005 1400
Date Received: 12/08/2005 1745

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 12/22/2005 1539
Date Prepared: 12/22/2005 1539

Analysis Batch: 720-3467

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	260		13
Toluene	1500		13
Ethylbenzene	51		13
Xylenes, Total	5300		25
Gasoline	20000		1300

Surrogate	%Rec	Acceptance Limits
Toluene-d8	112	77 - 121
1,2-Dichloroethane-d4	93	73 - 130

Client: ETIC Engineering, Inc. Job Number: 720-900-1

Client Sample ID: EFFLUENT

Lab Sample ID: 720-900-1
Client Matrix: Water

Date Sampled: 12/08/2005 1330
Date Received: 12/08/2005 1745

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1 0
Date Analyzed: 12/13/2005 2012
Date Prepared: 12/12/2005 0827

Analysis Batch: 720-3060
Prep Batch: 720-2849

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel (C10-C28)	ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	72	60 - 130

Client: ETIC Engineering, Inc. Job Number: 720-900-1

Client Sample ID: **MIDFLUENT**

Lab Sample ID: 720-900-2
Client Matrix: Water

Date Sampled: 12/08/2005 1345
Date Received: 12/08/2005 1745

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/13/2005 2039
Date Prepared: 12/12/2005 0827

Analysis Batch: 720-3060
Prep Batch: 720-2849

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel (C10-C28)	80		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	77	60 - 130

Client: ETIC Engineering, Inc. Job Number: 720-900-1

Client Sample ID: **INFLUENT**

Lab Sample ID: 720-900-3
Client Matrix: Water

Date Sampled: 12/08/2005 1400
Date Received: 12/08/2005 1745

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1 0
Date Analyzed: 12/13/2005 2107
Date Prepared: 12/12/2005 0827

Analysis Batch: 720-3060
Prep Batch: 720-2849

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel (C10-C28)	3100		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	68	60 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: ETIC Engineering, Inc.

Job Number: 720-900-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-3467				
LCS 720-3467/3	Lab Control Spike	Water	8260B	
LCSD 720-3467/2	Lab Control Spike Duplicate	Water	8260B	
MB 720-3467/4	Method Blank	Water	8260B	
720-900-1	EFFLUENT	Water	8260B	
720-900-3	INFLUENT	Water	8260B	
Analysis Batch:720-3469				
LCS 720-3469/15	Lab Control Spike	Water	8260B	
LCSD 720-3469/14	Lab Control Spike Duplicate	Water	8260B	
MB 720-3469/16	Method Blank	Water	8260B	
720-900-2	MIDFLUENT	Water	8260B	
GC Semi VOA				
Prep Batch: 720-2849				
LCS 720-2849/2-B	Lab Control Spike	Water	3510C	
LCSD 720-2849/3-B	Lab Control Spike Duplicate	Water	3510C	
MB 720-2849/1-B	Method Blank	Water	3510C	
720-900-1	EFFLUENT	Water	3510C	
720-900-2	MIDFLUENT	Water	3510C	
720-900-3	INFLUENT	Water	3510C	
Analysis Batch:720-3060				
LCS 720-2849/2-B	Lab Control Spike	Water	8015B	720-2849
LCSD 720-2849/3-B	Lab Control Spike Duplicate	Water	8015B	720-2849
MB 720-2849/1-B	Method Blank	Water	8015B	720-2849
720-900-1	EFFLUENT	Water	8015B	720-2849
720-900-2	MIDFLUENT	Water	8015B	720-2849
720-900-3	INFLUENT	Water	8015B	720-2849

Client: ETIC Engineering, Inc

Job Number: 720-900-1

Method Blank - Batch: 720-3467

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-3467/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2005 0951
Date Prepared: 12/22/2005 0951

Analysis Batch: 720-3467
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	111	77 - 121
1,2-Dichloroethane-d4	94	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-3467

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-3467/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2005 0908
Date Prepared: 12/22/2005 0908

Analysis Batch: 720-3467
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-3467/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/22/2005 0930
Date Prepared: 12/22/2005 0930

Analysis Batch: 720-3467
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\122
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	120	121	69 - 129	1	25		
Toluene	115	114	70 - 130	1	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	111	113	77 - 121
1,2-Dichloroethane-d4	87	87	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ETIC Engineering, Inc.

Job Number: 720-900-1

Method Blank - Batch: 720-3469

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-3469/16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2005 1642
Date Prepared: 12/20/2005 1642

Analysis Batch: 720-3469
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\122005\m
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	99	77 - 121
1,2-Dichloroethane-d4	93	73 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-3469

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-3469/15
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2005 1547
Date Prepared: 12/20/2005 1547

Analysis Batch: 720-3469
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\122005\ls
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-3469/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2005 1615
Date Prepared: 12/20/2005 1615

Analysis Batch: 720-3469
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\122005\ld-v
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	121	121	69 - 129	0	25		
Toluene	116	118	70 - 130	1	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	97	95	77 - 121
1,2-Dichloroethane-d4	92	89	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc.

Job Number: 720-900-1

Method Blank - Batch: 720-2849

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-2849/1-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/13/2005 1144
Date Prepared: 12/12/2005 0827

Analysis Batch: 720-3060
Prep Batch: 720-2849
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel (C10-C28)	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	77	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2849

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-2849/2-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/13/2005 1212
Date Prepared: 12/12/2005 0827

Analysis Batch: 720-3060
Prep Batch: 720-2849
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-2849/3-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/13/2005 1239
Date Prepared: 12/12/2005 0827

Analysis Batch: 720-3060
Prep Batch: 720-2849
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel (C10-C28)	96	95	60 - 130	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	83	82	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL 720-910

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: www.stl-inc.com

Reference #: 1143890

Date 12/8/05 Page 1 of 1

Report To

Attn: Tom Neely, Stephen lao
Company: ETIC Engineering
Address: 2285 Morello Avenue, Pleasant Hill, CA94523
Phone: 925-602-7410 x38 Email: slao@eticeng.com
Bill To: ETIC Engineering
Sampled By: MICHAEL FISH
Attn: Stephen Lao
Phone: 925-602-4710

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☒ 8260B ☒ Gas w/ ☒ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4					Number of Containers
Effluent	12/8/05	1330	H_2O		X		X																			5
Midfluent	↓	1345	H_2O		X		X																			5
Influent	↓	1408	H_2O		X		X																			5

Project Info.

Project Name: Strough Family Trust
Project#: TMSFT1 Task 10.8
PO#:
Credit Card#:

TAT: 5 Day | 72h | 48h | 24h
Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☒ EDD ☐ State Tank Fund EDF
Special Instructions / Comments:

☒ Global ID T0600101644

Sample Receipt

of Containers: 15
Head Space:
Temp: 5°C
Conforms to record:

1) Relinquished by: [signature] 17:45
Signature Time
MICHAEL FISH 12/8/05
Printed Name Date
ETIC ENGINEERING
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by: [signature] 17:45
Signature Time
SUSAN ARCOSTA 12/8/05
Printed Name Date
STL SF
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev. 07-02

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ETIC Engineering, Inc

Job Number: 720-900-1

Login Number: 900

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present	NA	
The cooler or samples do not appear to have been compromised or tampered with	True	
Samples were received on ice	True	
Cooler Temperature is acceptable	True	
Cooler Temperature is recorded	True	
COC is present	True	
COC is filled out in ink and legible	True	
COC is filled out with all pertinent information	True	
There are no discrepancies between the sample IDs on the containers and the COC	True	
Samples are received within Holding Time	True	
Sample containers have legible labels	True	
Containers are not broken or leaking	True	
Sample collection date/times are provided	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

ETIC ENGINEERING

Quarterly Monitoring
Laboratory Analytical Results

ANALYTICAL REPORT

Job Number: 720-962-1

Job Description: Strough Family Trust

For:

ETIC Engineering, Inc.
1333 Broadway
Suite 1015
Oakland, CA 94612

Attention: Ms. Kathy Brandt

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
12/23/2005

cc: Mr. Stephen Lao
Mr. Thomas Neely

METHOD SUMMARY

Client: ETIC Engineering, Inc. Job Number: 720-962-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge-and-Trap	STL-SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	STL-SF		SW846 3510C
Silica Gel Cleanup	STL-SF		SW846 3630C

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

SAMPLE SUMMARY

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-962-1	MW2	Water	12/12/2005 1610	12/13/2005 1540
720-962-2	MW3	Water	12/12/2005 1645	12/13/2005 1540
720-962-3	MW4	Water	12/12/2005 1517	12/13/2005 1540
720-962-4	MW6	Water	12/12/2005 1558	12/13/2005 1540

Client: ETIC Engineering, Inc. Job Number: 720-962-1

Client Sample ID: **MW2**

Lab Sample ID: 720-962-1
Client Matrix: Water

Date Sampled: 12/12/2005 1610
Date Received: 12/13/2005 1540

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 12/16/2005 2109
Date Prepared: 12/16/2005 2109

Analysis Batch: 720-3205

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	670		25
Ethylbenzene	1100		25
MTBE	65		25
Toluene	5300		25
Xylenes, Total	9800		50
Gasoline Range Organics (GRO)-C5-C12	34000		2500

Surrogate	%Rec	Acceptance Limits
Toluene-d8	89	77 - 121
1,2-Dichloroethane-d4	110	73 - 130

Client: ETIC Engineering, Inc. Job Number: 720-962-1

Client Sample ID: **MW3**

Lab Sample ID: 720-962-2
Client Matrix: Water

Date Sampled: 12/12/2005 1645
Date Received: 12/13/2005 1540

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 20
Date Analyzed: 12/20/2005 2046
Date Prepared: 12/20/2005 2046

Analysis Batch: 720-3468

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	200		10
Ethylbenzene	450		10
MTBE	ND		10
Toluene	710		10
Xylenes, Total	1400		20
Gasoline Range Organics (GRO)-C5-C12	7000		1000

Surrogate	%Rec	Acceptance Limits
Toluene-d8	97	77 - 121
1,2-Dichloroethane-d4	121	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Client Sample ID: **MW4**

Lab Sample ID: 720-962-3
Client Matrix: Water

Date Sampled: 12/12/2005 1517
Date Received: 12/13/2005 1540

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 12/20/2005 2112
Date Prepared: 12/20/2005 2112

Analysis Batch: 720-3468

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		5.0
Ethylbenzene	ND		5.0
MTBE	1000		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
Gasoline Range Organics (GRO)-C5-C12	820		500

Surrogate	%Rec	Acceptance Limits
Toluene-d8	94	77 - 121
1,2-Dichloroethane-d4	122	73 - 130

Client: ETIC Engineering, Inc. Job Number: 720-962-1

Client Sample ID: **MW6**

Lab Sample ID: 720-962-4
Client Matrix: Water

Date Sampled: 12/12/2005 1558
Date Received: 12/13/2005 1540

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/17/2005 0100
Date Prepared: 12/17/2005 0100

Analysis Batch: 720-3205

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	0.62		0.50
Ethylbenzene	ND		0.50
MTBE	140		0.50
Toluene	ND		0.50
Xylenes, Total	1.0		1.0
Gasoline Range Organics (GRO)-C5-C12	81		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	87	77 - 121
1,2-Dichloroethane-d4	106	73 - 130

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Client Sample ID: **MW2**

Lab Sample ID: 720-962-1
Client Matrix: Water

Date Sampled: 12/12/2005 1610
Date Received: 12/13/2005 1540

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2005 2016
Date Prepared: 12/14/2005 1333

Analysis Batch: 720-3081
Prep Batch: 720-3035

Instrument ID: Varian DRO1
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	2800		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	65	60 - 130

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Client Sample ID: **MW3**

Lab Sample ID: 720-962-2
Client Matrix: Water

Date Sampled: 12/12/2005 1645
Date Received: 12/13/2005 1540

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1 0
Date Analyzed: 12/15/2005 2042
Date Prepared: 12/14/2005 1333

Analysis Batch: 720-3081
Prep Batch: 720-3035

Instrument ID: Varian DRO1
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	550		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	72	60 - 130

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Client Sample ID: **MW4**

Lab Sample ID: 720-962-3
Client Matrix: Water

Date Sampled: 12/12/2005 1517
Date Received: 12/13/2005 1540

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1 0
Date Analyzed: 12/15/2005 2108
Date Prepared: 12/14/2005 1333

Analysis Batch: 720-3081
Prep Batch: 720-3035

Instrument ID: Varian DRO1
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	67	60 - 130

Client: ETIC Engineering, Inc. Job Number: 720-962-1

Client Sample ID: MW6

Lab Sample ID: 720-962-4
Client Matrix: Water

Date Sampled: 12/12/2005 1558
Date Received: 12/13/2005 1540

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2005 2135
Date Prepared: 12/14/2005 1333

Analysis Batch: 720-3081
Prep Batch: 720-3035

Instrument ID: Varian DRO1
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	65	60 - 130

DATA REPORTING QUALIFIERS

Client: ETIC Engineering, Inc. Job Number: 720-962-1

Lab Section	Qualifier	Description
GC/MS VOA		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Client: ETIC Engineering, Inc.

Job Number: 720-962-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-3205				
LCS 720-3205/13	Lab Control Spike	Water	8260B	
LCSD 720-3205/12	Lab Control Spike Duplicate	Water	8260B	
MB 720-3205/14	Method Blank	Water	8260B	
720-962-1	MW2	Water	8260B	
720-962-1MS	Matrix Spike	Water	8260B	
720-962-1MSD	Matrix Spike Duplicate	Water	8260B	
720-962-4	MW6	Water	8260B	
Analysis Batch:720-3468				
LCS 720-3468/15	Lab Control Spike	Water	8260B	
LCSD 720-3468/14	Lab Control Spike Duplicate	Water	8260B	
MB 720-3468/16	Method Blank	Water	8260B	
720-962-2	MW3	Water	8260B	
720-962-3	MW4	Water	8260B	
GC Semi VOA				
Prep Batch: 720-3035				
LCS 720-3035/2-B	Lab Control Spike	Water	3510C	
LCSD 720-3035/3-B	Lab Control Spike Duplicate	Water	3510C	
MB 720-3035/1-B	Method Blank	Water	3510C	
720-962-1	MW2	Water	3510C	
720-962-2	MW3	Water	3510C	
720-962-3	MW4	Water	3510C	
720-962-4	MW6	Water	3510C	
Analysis Batch:720-3081				
LCS 720-3035/2-B	Lab Control Spike	Water	8015B	720-3035
LCSD 720-3035/3-B	Lab Control Spike Duplicate	Water	8015B	720-3035
MB 720-3035/1-B	Method Blank	Water	8015B	720-3035
720-962-1	MW2	Water	8015B	720-3035
720-962-2	MW3	Water	8015B	720-3035
720-962-3	MW4	Water	8015B	720-3035
720-962-4	MW6	Water	8015B	720-3035

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Method Blank - Batch: 720-3205

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-3205/14
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 12/16/2005 1827
Date Prepared: 12/16/2005 1827

Analysis Batch: 720-3205
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0 50
Ethylbenzene	ND		0 50
MTBE	ND		0 50
Toluene	ND		0 50
Xylenes, Total	ND		1 0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	91	77 - 121
1,2-Dichloroethane-d4	92	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-3205

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-3205/13
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 12/16/2005 1735
Date Prepared: 12/16/2005 1735

Analysis Batch: 720-3205
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-3205/12
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 12/16/2005 1801
Date Prepared: 12/16/2005 1801

Analysis Batch: 720-3205
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\121
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	116	114	69 - 129	2	25		
MTBE	102	103	65 - 165	2	25		
Toluene	119	121	70 - 130	2	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	90	90	77 - 121
1,2-Dichloroethane-d4	89	90	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-3205

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-962-1
Client Matrix: Water
Dilution: 50
Date Analyzed: 12/16/2005 2135
Date Prepared: 12/16/2005 2135

Analysis Batch: 720-3205
Prep Batch: N/A

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-962-1
Client Matrix: Water
Dilution: 50
Date Analyzed: 12/16/2005 2201
Date Prepared: 12/16/2005 2201

Analysis Batch: 720-3205
Prep Batch: N/A

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	118	118	69 - 129	0	20		
MTBE	109	110	65 - 165	1	20		
Toluene	130	114	70 - 130	3	20	4	4

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8	92	90	77 - 121
1,2-Dichloroethane-d4	97	96	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc.

Job Number: 720-962-1

Method Blank - Batch: 720-3468

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-3468/16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2005 1502
Date Prepared: 12/20/2005 1502

Analysis Batch: 720-3468
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	93	77 - 121
1,2-Dichloroethane-d4	114	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

Client: ETIC Engineering, Inc.

Job Number: 720-962-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-3468

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-3468/15
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2005 1410
Date Prepared: 12/20/2005 1410

Analysis Batch: 720-3468
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-3468/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2005 1436
Date Prepared: 12/20/2005 1436

Analysis Batch: 720-3468
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	106	110	69 - 129	4	25		
MTBE	114	100	65 - 165	12	25		
Toluene	109	112	70 - 130	3	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	93	95	77 - 121
1,2-Dichloroethane-d4	103	96	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ETIC Engineering, Inc

Job Number: 720-962-1

Method Blank - Batch: 720-3035

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-3035/1-B
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 12/15/2005 0507
Date Prepared: 12/14/2005 1333

Analysis Batch: 720-3081
Prep Batch: 720-3035
Units: ug/L

Instrument ID: Varian DRO1
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	85	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-3035

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-3035/2-B
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 12/15/2005 0534
Date Prepared: 12/14/2005 1333

Analysis Batch: 720-3081
Prep Batch: 720-3035
Units: ug/L

Instrument ID: Varian DRO1
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-3035/3-B
Client Matrix: Water
Dilution: 1 0
Date Analyzed: 12/15/2005 0600
Date Prepared: 12/14/2005 1333

Analysis Batch: 720-3081
Prep Batch: 720-3035
Units: ug/L

Instrument ID: Varian DRO1
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	79	80	60 - 130	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	89	107	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

SEVERN TRENT STL 720-962

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: www.stl-inc.com

Reference #: 114477

Date 12.12.05 Page 1 of 1

Report To

Attn: Tom Neely
Company: ETIC Engineering
Address: 2285 Morello Ave., Pleasant Hill, CA 94523
Phone: 925-602-4710 x17 Email: stldabreports@etceng.com
Bill To: ETIC Engineering
Sampled By: S. MITCHELL
Attn: Accounts Payable
Phone: 602-4710 x27

Analysis Request

Sample ID	Date	Time	Matrix	Preservative	EPA Method: ☒ 8260B ☒ TPH-Gas w/ ☒ BTEX ☒ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☒ w/Silica Gel ☒ Diesel ☒ Motor Oil	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4					Number of Containers
MW2	12/12	16:10	H_2O	HCl	X																					4
MW2		16:10	H_2O				X																			2
MW3		16:45	H_2O	HCl	X																					4
MW3		16:45	H_2O				X																			2
MW4		15:17	H_2O	HCl	X																					4
MW4		15:17	H_2O				X																			2
MW6		15:58	H_2O	HCl	X																					4
MW6		15:58	H_2O				X																			2

Project Info:

Project Name: Strough Family Trust
Project#:TMSFT1 Task 11
PO#:
Credit Card#:

Sample Receipt

of Containers: 24
Head Space:
Temp: 3
Conforms to record:

TAT: 5 Day | 72h | 48h | 24h | Other:

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ State Tank Fund EDF
Special Instructions / Comments: ☒ Global ID T0600101644

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 3[illegible]:20	Signature: [signature] Time:	Signature: Time:
Printed Name: [illegible] Date: 12/13	Printed Name: [illegible] Date: 1540	Printed Name: Date:
Company: ETIC ENG	Company: 12-13-05 STL S.F	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time:	Signature: [signature] Time: 1540	Signature: Time:
Printed Name: [illegible] Date: 12/13/05	Printed Name: M. VILLANUEVA Date: 12/13/05	Printed Name: Date:
Company: STL SF	Company: STL SF	Company:

Rev 07/02

LOGIN SAMPLE RECEIPT CHECK LIST

Client: ETIC Engineering, Inc. Job Number: 720-962-1

Login Number: 962

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible	True	
COC is filled out with all pertinent information	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time	True	
Sample containers have legible labels	True	
Containers are not broken or leaking	True	
Sample collection date/times are provided	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled	True	
There is sufficient vol for all requested analyses, incl any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	