



FOURTH QUARTER 2003 GROUNDWATER MONITORING REPORT

STROUGH FAMILY TRUST OF 1983 VAL STROUGH SITE 327 34th STREET OAKLAND, CALIFORNIA

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Prepared For:

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

Prepared By:

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

January 21, 2003



Fourth Quarter 2003 Groundwater Monitoring Report Strough Family Trust of 1983 - Oakland, California Fuel Leak Case No. RO0000134 January 21, 2004

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SITE CONTACTS

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Site Address:

Consultant:

ETIC Project Manager:

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1.0 INTRODUCTION

At the request of the Strough Family Trust of 1983, ETIC Engineering, Inc. has prepared this *Fourth Quarter 2003 Groundwater Monitoring Report* for the Val Strough Chevrolet site located in Oakland, California. This report covers site activities through 12 December 2003, the date of the most recent monitoring event. Groundwater monitoring results, well construction details, and groundwater monitoring plan are provided in the attached figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the attached appendixes.

GENERAL SITE INFORMATION

Site name:	Val Strough Chevrolet
Site address:	327 34 th Street, Oakland, California
Current property owner:	Strough Family Trust of 1983
Current site use:	Active Val Strough Sales and Service Center
Current phase of project:	Groundwater monitoring, onsite investigation
Tanks at site:	Two former tanks (1 gasoline, 1 waste-oil) removed 1993
Number of wells:	7 (all onsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date: Wells gauged and sampled: Wells gauged only: Groundwater flow direction: Groundwater gradient: Liquid-phase hydrocarbons: Laboratory: 12 December 2003 MW1, MW4-MW7 MW2, MW3 South-southwest 0.02 to 0.03 Observed in MW2 and MW3 Severn Trent Laboratories, Inc (STL) of San Francisco, Pleasanton, California

Analyses performed:

- Total Petroleum Hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl t-butyl ether (MTBE) by EPA Method 8260B.
- Total Extractable Petroleum Hydrocarbon (TEPH) with Silica Gel Clean-up by modified EPA Method 8015.



2.0 SITE BACKGROUND

2.1 SITE LOCATION AND LAND USE

Val Strough Chevrolet is an active automobile dealership and service center located at 327 34th Street, Oakland, California on the southwest 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 mixed commercial.

The site topography has a slight grade toward the south. The site is located in the San Francisco Bay area, approximately 2 miles east of the San Francisco Bay. The nearest surface water body is Lake Merritt, which is located approximately one mile south of the site.

2.2 SITE HISTORY AND PREVIOUS INVESTIGATIONS

A 1,000-gallon gasoline underground storage tank (UST) was installed in 1975 and a 1,000-gallon waste-oil UST was installed prior to 1949. Between 4 and 5 March 1993, the two 1,000-gallon USTs containing unleaded gasoline and waste oil were excavated and removed from the site. The chemicals of potential concern (COPCs) at the site include TPH-g; TPH as diesel (TPH-d); TPH as motor oil; BTEX; and MTBE. Confirmation soil samples were collected at the bottom of each end of the UST excavations, at approximately 9.5 to 11 feet below ground surface (bgs). Soil samples beneath the gasoline UST contained TPH-g concentrations of 130 milligrams per kilogram (mg/kg), toluene at 0.20 mg/kg, ethylbenzene at 4.9 mg/kg, and total xylenes at 7.8 mg/kg. The COPCs were not detected in soil samples beneath the waste-oil UST.

In July 1993, GeoPlexes, Inc. installed three groundwater monitoring wells (MW1-MW3) downgradient of the USTs (see Table 1 for construction details). MW1 is located southeast, approximately 10 feet from the waste-oil UST. MW2 is located approximately 15 feet south and downgradient of the gasoline UST. MW3 is located downgradient from MW2 and the two USTs (approximately 40 feet south of the USTs). Figures 2 and 3 show the monitoring well locations.

Soil samples collected from each of the monitoring wells (MW1-MW3) were submitted to a state-certified laboratory for analysis. Soil samples from MW1 were below laboratory reporting limits for the COPCs. Soil samples from MW2 contained elevated TPH and BTEX concentrations. Soil samples from boring MW3 (downgradient of MW2) contained TPH, which were not further quantified by the laboratory due to heavy gasoline/or aged gasoline. TPH-g and benzene were detected in the capillary zone soils and in soils beneath the water table. Upon completion of MW3, 0.16 foot of floating liquid-phase hydrocarbons (LPH) was observed in this well. The LPH was determined to consist of gasoline-range hydrocarbons. Groundwater quality data are summarized in Table 2.



In June 1998, two additional groundwater monitoring wells (MW4 and MW5) and one soil boring (B-6) were installed to further characterize the lateral extent of the TPH plume. The monitoring wells were completed to a total depth of 31 feet bgs and B-6 was advanced to 26 feet bgs. Analytical results for the COPCs were not detected, except trace benzene levels in MW4 (0.045 parts per billion [ppb]). All five monitoring wells were sampled and tested (see Table 3).

In July 2000, two additional groundwater monitoring wells (MW6 and MW7) were installed downgradient of the plume on the east and west sides of a box culvert in the eastern portion of the site. The underground box culvert (Former Tributary of Glen Echo Creek) in the east side of the site (below parking lot area) was also investigated in July 2000. The box culvert transecting the site is a re-enforced concrete box measuring 5 feet wide by 6 feet high. The total depth of the concrete box is approximately 17 feet bgs. A cave-in occurred along the box culvert alignment during winter 1983. The caved-in section of the culvert was replaced and lined with a 5-foot-diameter pipe. The flow-line in the culvert at the time was 22.5 feet bgs.

2.3 REGIONAL GEOLOGY AND HYDROGEOLOGY

The area is underlain by the Quaternary Temescal Formation, which consists of interfingering layers of clayey gravel, sandy silty clay, and various clay-silt-sand mixtures. The formation varies in thickness to a maximum depth of approximately 60 feet. Underlying the Temescal Formation is the Quaternary Alameda Formation, which consists of unconsolidated continental and marine gravels, sands, silts, and clays, with some shells and organic material in various places. The formation has a maximum known thickness of 1,050 feet (Radbruck, 1957). The site has an elevation of approximately 61 feet above mean sea level (Environmental Data Resources, Inc., 2003).

The site is located in the East Bay Plain Groundwater Basin. Regional groundwater flow is to the south, in the general direction of the San Francisco Bay (RWQCB, 1995). A current groundwater elevation contour map (with rose diagram) is presented as Figure 2.

2.4 SITE GEOLOGY AND HYDROGEOLOGY

The geology and hydrogeology of the site have been evaluated using soil boring logs from previous investigations at the site. In general, the lithology at the site consists of silty clays, sandy clays, or clays from the surface to depths ranging from 20 to 22 feet bgs. Silty sand has been encountered from approximately 26 feet bgs to the total depth explored in borings MW1 through MW4 (approximately 31 feet bgs). Sandy clay has been observed in MW2 at approximately 35 feet bgs. The total depth explored to date beneath the site is 35 feet bgs.

In December 2003, groundwater occurred at an average depth of 20.5 feet bgs. Figure 2 depicts a rose diagram showing flow directions for the shallow water-bearing zone beneath the site. As shown in the rose diagram, the prevailing groundwater flow direction has been toward the southwest, with an average hydraulic gradient of approximately 0.02 to 0.03 foot/foot. The rose



diagram was prepared using groundwater monitoring data from July 1993 through December 2003. Historical and current groundwater monitoring data are presented in Table 2.



3.0 PROTOCOLS FOR QUARTERLY 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 for LPH in all wells.
- Gauging depth to groundwater in all wells.
- Purging wells to be sampled.
- Collecting and analyzing groundwater samples from wells with no LPH.
- Calculating the groundwater gradient and flow direction.
- Preparing a written report summarizing the results of the monitoring event.

3.1 GROUNDWATER GAUGING

Wells were opened prior to gauging to allow the groundwater level to equilibrate with atmospheric pressure. The depth to groundwater and depth to LPH, 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 permanent reference point at the top of the well casing. Wells with a sheen or measurable LPH were not purged or sampled.

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

After the wells were gauged, each well was purged a minimum of 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters including pH, temperature, and electrical conductance were measured during purging to ensure that these parameters had stabilized before groundwater was sampled. Groundwater in each well was purged using an inertial pump (WaTerra). After the well was purged, the water level was checked to ensure that the well had recharged to at least 80 percent of its pre-purge water level.

3.3 GROUNDWATER SAMPLING

After purging, groundwater in each well was sampled using dedicated tubing and an inertial pump (WaTerra). Samples collected for volatile organic analysis were placed in Teflon septum-sealed 40-milliliter glass vials in a manner in which no bubbles accumulated in the container.



Each sample bottle was labeled with the site name, well number, date, sampler's initials, and preservative. The samples were placed in a cooler with ice to minimize the potential loss of volatile constituents and delivered to STL San Francisco, a state-certified laboratory. The information for each sample was entered on a chain-of-custody form prior to transport to the laboratory. Groundwater analytical results and chain-of-custody documentation are presented in Appendix C.

Purge water produced during the monitoring event was temporarily stored onsite in 55-gallon drums.



4.0 **RESULTS**

The following sections of this report present the results of the depth-to-groundwater measurements and the analytical laboratory results for the groundwater samples that were collected as a part of this monitoring event.

4.1 LIQUID-PHASE HYDROCARBON MONITORING

Wells were monitored for the presence of LPH using a disposable bailer and/or interface probe. LPH was measured at a thickness of 0.16 feet in monitoring well MW2 and 0.01 feet in monitoring well MW3.

4.2 GROUNDWATER ELEVATION AND GRADIENT

Groundwater elevations in the monitoring wells during this monitoring event ranged between 41.69 feet above mean sea level (msl) at MW5 and 43.42 feet msl at MW1. Groundwater elevations are presented in Figure 2. Groundwater flow direction is to the south-southwest with a gradient ranging from 0.02 to 0.03 foot/foot. At the request of the Alameda County Health Services Agency (ACHSA), a rose diagram is also presented on Figure 2.

4.3 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples were collected from wells MW1, MW4, MW5, MW6, and MW7. Wells MW2 and MW3 were not sampled on 12 December due to the presence of LPH. Samples were analyzed by STL San Francisco for TPH-g, BTEX, and MTBE by EPA Method 8260B, and for TEPH with silica gel clean-up by modified EPA Method 8015. Analytical results for this and prior monitoring events are presented in Table 2. Analytical results for this monitoring event are presented on Figure 3. Copies of the chain-of-custody and laboratory analytical reports for the groundwater samples are presented in Appendix C.

The following observations are made comparing the current analytical results with the results of the previous sampling event.

- Concentrations of TPH-g and TPH-mo were below laboratory reporting limits in each of the monitoring wells sampled, however, reporting limits in several samples were raised due to high levels of analyte present in the samples. In previous monitoring events, only MW1 and MW7 were below laboratory reporting limits for TPH-g and TPH-mo.
- TPH-d was detected in MW1 and MW6 at concentrations of 58 μ g/L, and 51 μ g/L, respectively. Historically, MW1 and MW6 were below laboratory reporting limits for TPH-d
- BTEX concentrations were below the laboratory reporting limits in monitoring wells



MW4-MW7, however, as with the TPH-g analysis above, the reporting limits in several samples were raised due to high levels of analyte present in the samples. Total xylenes were detected at 1.1 μ g/L in MW1. Trace concentrations of xylenes have been detected in MW1 in previous sampling events. With the exception of MW4, historic BTEX concentrations have been below or slightly above laboratory reporting limits in the wells sampled. MW4 was below laboratory reporting limits for BTEX in the previous monitoring event.

• MTBE concentrations ranged from below laboratory reporting limits (MW1 and MW7) to $1,000 \mu g/L$ (MW4). In monitoring wells where MTBE has been detected, the concentrations are similar to or have declined since the previous monitoring events.

4.4 WORK PROPOSED FOR NEXT QUARTER

Groundwater will be monitored in accordance with the attached groundwater monitoring schedule presented as Table 3, but will be re-evaluated after four consecutive quarters of monitoring.



5.0 **REFERENCES**

- Environmental Data Resources. 2003. EDR Radius Map with GeoCheck, Strough Family Trust, 327 34th Street, Oakland, California. September 10.
- ETIC Engineering, Inc. 2003. Supplemental Site Investigation Workplan, Strough Family Trust of 1983, 327 34th Street, Oakland, California. September 17.
- ETIC Engineering, Inc. 2003. Third Quarter 2003 Groundwater Monitoring Report, Strough Family Trust of 1983-Oakland, California. Fuel Leak Case No. RO0000134. October 29.
- Radbruck, Dorothy H. 1957. Areal and Engineering Geology of the Oakland West Quadrangle, California, United States Geologic Survey Miscellaneous Geologic Investigations Map I-239.
- Regional Water Quality Control Board (RWQCB), 1995. Water Quality Control Plan, San Francisco Bay Basin (Region 2). June 21.



Figures









Tables

	Well	Top-of-Casing	Casing	Total Depth	Casing	Screened	Slot	Filter Pack	
Well ID	Installation Date	Elevation ^a (feet)	Material	of Borehole (ft bgs)	Diameter (inches)	Interval (ft bgs)	Size (inches)	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

TABLE 1 WELL CONSTRUCTION DETAILS STROUGH FAMILY TRUST, 327 34th STREET OAKLAND, CALIFORINA

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 GROUNDWATER QUALITY DATA, STROUGH FAMILY TRUST, 327-34TH STREET, OAKLAND, CALIFORNIA

		Casing	Depth to	GW	LPH				Concentra	tion (µg/L)							Co	ncentratio	as (mg/L)			
Well		Elevation	Water	Elevation	Thickness			Ethyl-	Total					CO ₂	DO	pН						
Number	Date	(feet)	(feet)	(feet)	(feet)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	(lab)	(field)	(field)	Fe(II)	Mn	SO_4	N-NH ₁	N-NO ₃	o-PO4
MWI	07/27/93	100.00	a 20.79	79.21	0.00	<0.50	<0.50	<0.50	<0.50	<50	<50		•									
MWI	10/02/97	100.00 a	a 21.22	78.78	0.00	<0.50	<0.50	<0.50	<0.50	<50			<2.0									
MWI	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
MWI	07/29/98	100.00 a	a 18.74	81.26	0.00									~								
MWI	08/26/98	100.00 a	a 19.28	80.72	0.00												•					
MW1	10/01/98	100.00 a	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	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	1 19.81	80.19	0.00			••	••	-												-
MWI	01/25/99	100.00 a	a 19.62	80.38	0.00	<1.0	<1.0	<1.0	<1.0	<50			<2,0	389	3.4	6.72						
MWI	02/26/99	100.00 z	17.18	82.82	0.00								_									••
MWI	03/24/99	100.00 a	17.28	82.72	0.00	••																
MWI	05/12/99	100.00 a	a 17.91	82.09	0.00				-													
MWI	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						
MWI	03/20/00	100.00 a	16.25	83.75	0.00			~-														
MWI	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
MWI	10/11/00	100.00 a	1 20.80	79.20	0.00							••										
MWI	04/10-11/01	100.00 z	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	1/20/01	64.69 t	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 t	18.95	45.74	0.00																	
MWI	05/21/02	64.69 t	0 19.82	44.87	0.00	<0.50	<0.50	<0.50	<0.50	<\$0	<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						-											
MWI	09/29/03	64.69 t	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 k	21.27	43.42	0.00	<0.50	<0.50	<0.50	1.1	<50	58	<500	<50						**	••		
MW2	07/27/93	101.27 a	a 22.10	79.17	0.00	10,000	27,000	2,900	20,000	120,000												
MW2	10/02/97	101.27 a	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	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	ı 21.10	80.17	0.02																	
MW2	01/25/99	101.27 a	ı 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	ι 18.00	83.27	sheen																	
MW2	03/24/99	101.27 a	ı 18.27	83.00	trace																	
MW2	05/12/99	101.27 a	19.08	82.19	trace																	
MW2	12/15-16/99	101.27 a	22.42	78.85	0.025	•	*	*	٠	*	•	*	٠		*	*					•-	
MW2	03/20/00	101.27 a	ı 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							-		

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TABLE 2 GROUNDWATER QUALITY DATA, STROUGH FAMILY TRUST, 327-34TH STREET, OAKLAND, CALIFORNIA

		Casing	Depti	to GW	lph				Concentr	ation (µg/L)			-				Co	oncentratio	ons (mg/L)	1		
Well	Π.	Elevation	Wat	er Elevation	1 Thickness			Ethyl-	Total					CO2	DO	pН			<u>(</u>)			
Numbe	r Date	(feet)	(lee	l) (feet)	(fcet)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	(lab)	(field)	(field)	Fe(II)	Mn	SO₄	N-NH ₁	N-NO ₂	o-PO.
M₩2	11/20/01	65.95	b 22.7	5 43.20	0.00									120	NR	6.15	1.8	2	16	<0.10		~0.20
MW2	02/19/02	65.95	b 20.1	2 45.83	0.00													-		~~.10		×0.20
MW2	05/21/02	65.95	b 21.1	0 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	17	13	<0.10	0.54	-0.20
MW2	06/27/03	65.95 i	5 21.4	8 44.47	0.35						••			_					10	-0.10	0.54	~0.20
MW2	09/29/03	65.95	5 23.0	4 42.91	0.48	*	*	+	٠		*		*	*	*	*	*	*	*	*	•	
MW2'	12/12/03	65.95 I	22.7	5 43.31	0.16	*	*	*		•	*	*	•	*	*	*	*	•	*			•
																				+	•	•
MW3	07/27/93	101.29	1 22.2	8 79.01	0.02	9,100	24,000	5,300	33,000	330.000												
MW3	10/02/97	101.29	1 22.7	1 78.58	0.03	4,200	11,000	1.800	10_600	36.000			3 500									
MW3	06/30/98	101.29	n 19,4	7 81.82	0.00	4,800	11.000	1.200	7.100	51,000			3,000	200		 6 A 3						
MW3	07/29/98	101.29	20.0	1 81.28	0.00								5,500	300	2	0.03	1.4	9.8	13	1.4	<0.10	2.4
MW3	08/26/98	101.29	20.6	2 80.67	0.00							-	-									
MW3	10/01/98	101.29	21.3	3 79.96	0.00	3.900	8 500	1 200	6.000	38.000		•-	2 200					-				
MW3	10/30/98	101.29 ;	21.6	2 79.67	0.00					56,000	-		2,300	240	2	6.65						
MW3	11/30/98	101.29 a	21.3	1 79.98	0.00																	
MW3	12/28/98	101.29	21.1	5 80.14	0.06								~~									
MW3	01/25/99	101,29 a	20.7	80.50	0.00	4.000	10.000	1 200	6 700	5 100			1 000									
MW3	02/26/99	101.29 a	18.0	2 83.27	0.00					2,100			2,900	238		7.01						
MW3	03/24/99	101.29 a	18.3	7 82.92	0.00						-			-+		~-						
MW3	05/12/99	101.29 a	19,2	2 82.07	0.0083			_							••	~-						
MW3	12/15-16/99	101.29 a	22.4	3 78.86	0.00	*	*	*	*	*	*						-*	**				
MW3	03/20/00	101.29 a	i 17.1-	4 84.15	0.00							-	•		*	*						
MW3	07/20/00	101.29 a	20.9	80.31	0.00	5 700	14 000	1 600	0.200	 60.000												
MW3	10/11/00	101.29	22.2	4 79.05	0.00	5,700	14,000	1,000	9,300	09,000	2,900	<300	3,300	128	2.05	6.73	3.9	6,6	20	<0.10	0.55	<0.20
MW3	04/10-11/01	101.29	20.7	80.59	0.00	7 700	~0.001	1 200	12.000		4 700			-+								
MW3	07/10/01	101.29	21.9	7 79 32	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	11/20/01	65.99 1	27.8) 43 19	0.00	6 300	16 000															
MW3	02/19/02	65.99 1	201	45.99	0.00	0,500	10,000	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	05/21/02	65 99 1	712	1 40.00	0.00		17.000			-+	••											
MW3	06/27/03	65.00 1	71.2	/// } /////	0.00	0,300	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	00/20/03	65 00 F	13.7	· · · · · · · · · · · · · · · · · · ·	sheen	~														-+		
MWa	12/12/02	65 00 1	22.7	43.20	sneen		•		*	*	•	*	*	*	*	*	*	*	*	*	*	*
	12/12/05	U3.37 L		43.27	0.01	•	•	•	*	•	•	*	*	*	*	*	*	*	*	+	*	*
MW4	06/30/02	08.65	14.0	01.70	0.00	33.000																
M11/4	07/20/08	00.05 a	17.4	01.72	0.00	22,000	930	850	2,100	10,000			1,800	222	2.6	6.18	0.14	4.3	14	0.8	0.8	1.5
NATIVA	07/29/98	98.03 a	17.41	81.17	0.00	-		••						-	••							
191 YY 4	10/01/08	98.00 a	18.6	80.00	0.00							••										
IVE YY 4	10/01/98	98.05 a	18.74	79.91	0.00	570	46	130	36	1,100			1,300	320	3.4	<0.001						
AVE YY 4	10/30/98	98.65 a	19.02	79.63	0.00												 ,					
IVE 4V 4	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																	
MEW4	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	V5/12/99	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						

H:\LRM Projects\WRBD\Strnugh Family Trust\Public\01-04 QMR\tables

TABLE 2 GROUNDWATER QUALITY DATA, STROUGH FAMILY TRUST	, 327-34TH STREET, OAKLAND, CALIFORNIA
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		Casing	Depth	to GW	LPH				Concentra	tion (µg/L)							Co	oncentratio	os (mg/L)			
Well		Elevation	Wat	T Elevation	Thickness			Ethyl-	Total					CO2	DO	рН			<u></u>			
Number	r Date	(feet)	(fee) (feet)	(feet)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	(lab)	(field)	(field)	Fe(II)	Mn	SO_4	N-NH3	N-NO3	o-PO4
MW4	03/20/00	98.65	a 14.9	83.75	0.00				,	••			~~									
MW4	07/20/00	98.65	a 18.3	8 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 19.6	l 79.04	0.00													-				
MW4	04/10-11/01	98.65	a 17.5	5 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 19.3	4 79.31	0.00						•-						~~					
MW4	11/20/01	63.35	b 20.1	6 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 17.3	4 46.01	0.00						•			••								
MW4	05/21/02	63.35	b 18.5	7 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	6 18.7	2 44.63	0.00						,						·		-+			
MW4	09/29/03	63.35	b 20.1	1 43.24	0.00	<5.0	<5.0	<5.0	<10	1,100	<50°	<500	1,700									
IVI VV 4	12/12/03	0.3.35	5 20.0	6 43,29	0.00	<13	<13	<13	<13	<1,300	<50	<500	1,000		••						••	
N#11/5	06/30/08	100.0	- 20 6	0 0010	0.00	-0.50	-0.50															
MWS	07/20/08	100.9	a 20.0	0 30.30	0.00	<0.50	<0.50	<0.50	<0.50	<50			23	220	4.3	6.1	••					
MW5	07/27/78	100.9	a 21.3	2 79.38	0.00		-													•-		
MW5	10/01/98	100.9	a 22.2	5 77.05	0.00	<1.0																
MW5	10/30/98	100.9	a 22.7	3 77.53	0.00	~1.0	~I.V	×1.0	×1.0	~50		-	<2.0	256	4.8	6.71						
MW5	11/30/98	100.9	a 23.1	7778	0.00				-									-				
MW5	12/28/98	100.9	a 23.1	8 77.72	0.00						••						••					
MW5	01/25-26/99	100.9	a 22.6	1 78.29	0.00	<1.0	<1.0	<1.0	<1.0	<50												
MW5	02/26/99	100.9	a 19.7	8 81.12	0.00			~1.0	~1.0	20			<2.0	305	9.7	7.04	-					
MW5	03/24/99	100.9	a 20.2	5 80.65	0.00																	
MW5	05/12/99	100.9	a 21.0	5 79.84	0.00																	
MW5	12/15-16/99	100.9	a 24.1	9 76.71	0.00	<0.50	<0.50	<0.50	<0.50	<50			<0.50			710						
MW5	03/20/00	100.9	a 19.1	5 81.75	0.00							-	-0.50		2.12	7.17		-				
MW5	07/20/00	100.9	a 21.8	4 79.06	0.00	<0.50	0.98	<0.50	<0.50	<50	<50	<300	19	134	5 58	6 35	0.11	0.017	40		7.0	
MW5	10/11/00	100.9	a 23.4	77.50	0.00										5.50	0.55		0.017	47	V.10	3.9	<0.20
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		
MW5	07/10/01	100.9	a 23.6	4 77.26	0.00		••			~										~0.10	4.7	0.11
MW5	₹1/20/01	65.59 i	b 24,6	5 40.94	0.00	0.83	12	1.2	11	140	860	2,500	10	"	66	6.01	0.2	2.5	42	<0.10		<0.20
MW5	02/19/02	65.59 l	b 22.3	7 43.22	0.00															-0.10		~0.20
MW5	05/21/02	65.59	b 23.1	0 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 23.0	7 42.52	0.00																	
MW5	09/29/03	65.59	b 24,3	8 41.21	0.00	<0.50	0.52	7.1	35	100	<50 ^d	<500	1.4						_			_
MW5	12/12/03	65.59	b 23.9	8 41.69	0.00	<0.50	<0.50	<0.50	<1	<50	<50	<500	1.5									
MW6	07/20/00	96.60	a 183	0 7830	0.00	<0.50	<0.50	~0.50	~0.50	~60	~50	-200	1.40									
MW6	10/11/00	96.60	a 18.6	9 77.91	0.00	~0.50	~0.00	~0.50	~0.30	<	<0U	<300	160	122	2.72	6.66	120	1.9	53	6	0.05	<0.20
MW6	04/10-11/01	96.60	a 17.8	5 78.75	0.00	<0.50	<0.50	<0.50	<0.50	~50	~50	~200	180									
MW6	07/10/01	96.60	a 18.4	3 7817	0.00	-0.00		-0.50	~0.30	~ 00	~30	~500	180	142	NR	NR	22	2.2	0.69	5.2	<0.05	<0.20
MW6	11/20/01	59.60	b 18.6	7 40.93	0.00	<0.50	<0.50	<0.50	<0.50	~50	~50	~300	450						•		•-	
MW6	02/19/02	59.60	b 17.4) 42.20	0.00		-0.00	-0.50	-0.00	~50	~JU	~>00	40V	100	2.03	6.44	29	5.2	1.1	3.4		<0.20
MW6	05/21/02	59.60	b 17.6	8 41.92	0.00	<0.50	<0.50	<0.50	 <0 50	<50	 ~60	 - 200			•• 0 74							
MW6	06/27/03	59.60	b 17.7	3 41.87	0.00				-0.50			~500	170	100	U./6	0.0	11	3.4	1.4	8.9	0.65	<0.20
MW6	09/29/03	59.60	b 18.4	8 41.12	0.00	<1.0	<1.0	<1.0	<20	230 ^d	<50	<500	340									
					*100			-1.0	-2.0	230	~20	~	340	••		-				-		

TABLE 2 GROUNDWATER QUALITY DATA, STROUGH FAMILY TRUST, 327-34TH STREET, OAKLAND, CALIFORNIA

		Casing		Depth to	GW	LPH				Concentrat	tion (µg/L)							Co	ncentration	ns (mg/L)			
Well	5.	Elevation	1	Water	Elevation	Thickness			Ethyl-	Total					CO2	DÖ	рН					·	
Number	Date	(feet)		(feet)	(feet)	(feet)	Benzene	Toluene	benzene	Xylenes	TPH-g	TPH-d	TPH-mo	MTBE	(lab)	(field)	(field)	Fe(II)	Mn	SO₄	N-NH3	N-NO ₃	o-PO₄
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									
MW7	07/20/00	96.75	а	15.93	80.82	0.00	<0.50	<0.50	< 0.50	<0.50	<50	<50	<300	<0.50	32.2	715	7 4 3	<01	0.002	75	<0.10	36	0.17
MW7	10/11/00	96.75	а	16.90	79.85	0.00												-0.1	0.002	7.5	<0.10	2.0	0.15
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	018	0.048	40	 -0.10		0.21
MW7	07/10/01	96.75	a	16.71	80.04	0.00													0.040		~0.10	2.7	0.51
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 1 1	0.16	1.8	63	<0.10		~0.20
MW7	02/19/02	59,47	b	14.92	44.55	0.00					•-								1.0	05	~0.10		NO.20
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	 1 P	
MW7	06/27/03	59.47	Ь	16.28	43.19	0.00				'							,,	0.11	0.55	51	~0.10	2.0	0.11
MW7	09/29/03	59.47	Ь	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	_	_	-						

Shaded areas denotes detected compunds above laboratory detection limits during this monitoring event.

- LPH Liquid-phase hydrocarbons.
- CO₂ Carbon dioxide.
- DO Dissolved oxygen.
- Fe(11) Ferrous iron.
- Mn Manganese.
- SO₄ Sulfate.
- N-NH₁ Ammonia.
- N-NO₃ Nitrate.
- o-PO4 Ortho-Phosphate.
- GW Groundwater
- TPH-g Total Petroleum Hydrocarbons as gasoline.
- TPH-d Total Petrolcum Hydrocarbons as diesel.
- TPH-mo Total Petroleum Hydrocarbons as motor oil.
- MTBE Methyl tertiary butyl ether.
- NR Not reported.
- µg/L Micrograms per liter.
- mg/L Milligrams per liter.
- Free product; sample not analyzed.
- -- 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
- 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 product are corrected by multiplying the specific gravity of gasoline (0.69) by the product thickness and adding this value to the water elevation.

TABLE 3 GROUNDWATER MONITORING SCHEDULE STROUGH FAMILY TRUST, 327 34th STREET, OAKLAND, CALIFORNIA

Well	Groundwater	Groundwater	Sampling and Analysis	Frequency
Number	Gauging Frequency	BTEX and TPH-g	MTBE	ТЕРН
MW1	Q	0	0	0
MW2	Q	ò	0	0
MW3	Q	Ò I	0	0
MW4	Q	<u> </u>	0	0
MW5	Q	ò	<u>0</u>	0
MW6	Q	<u> </u>	0	
MW7	Q	Q	Q	Ŏ

Q = Quarterly.

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

MTBE = Methyl tertiary butyl ether.

TPH-g = Total Petroleum Hydrocarbons as gasoline. TEPH = Total Extractable Petroleum Hydrocarbons.

TEPH includes TPH-diesel and TPH-motor oil.



Appendix A

Field Protocols

PROTOCOLS FOR QUARTERLY 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

Project Number TMSFT.6 Station Number SFT Site Location: 327 34 TH ST. OAKLAND, CA. Samplers: WJ/PP Site Location: 327 34 TH ST. OAKLAND, CA. Amount of the second of the	Client:	STROUGH	FAMILY TRUS	ST		Date: 12	12.03	
Site Location: 327 34TH ST. OAKLAND, CA. Samplers: WJ/PP MOMINEME OPERATING WATER OPERATING PRODUCT TOCOL Address Product TOCOL Addres Product TOCOL <th>Project Numbe</th> <th>r TMSFT.6</th> <th></th> <th>······································</th> <th></th> <th>Station Numb</th> <th>per SFT</th> <th></th>	Project Numbe	r TMSFT.6		······································		Station Numb	per SFT	
MONTORING WATER DEPTHIC PRODUCT APAREN PRODUCT AMOUNTOS PRODUCT MONTORING PRODUCT DEPTHIC PRODUCT ACAREN PRODUCT AMOUNTOS PRODUCT MONTORING PRODUCT DEPTHIC PRODUCT ACAREN PRODUCT MW1 Z1.2.7 30.65 2" MW2* Z2.75 Z2.57 32.20 2" MW3* Z2.73 Z2.72 32.09 2" MW3* Z3.90 2" 28.52 2" MW5 Z3.90 28.52 2" MW7 IV-95 28.10 2" MW7 IV-95 24.60 2" POSSIBLE UPH - USE IP AND CONFIRM WITH BAILER 20.01 20.01 20.01 Image: Ima	Site Location:	327 34TH S OAKLAND ,	r. CA	·		Samplers:	WJ/PP	
MW1 Z1.27 30.65 2" MW2* 22.75 22.57 32.20 2" MW3* Z2.73 Z2.72 32.09 2" MW4 20.06 27.31 2" MW5* Z3.75 Z2.72 32.09 2" MW5 Z3.75 Z2.73 Z2.73 2" MW5 Z3.75 Z3.75 Z8.10 2" MW5 17.93 Z8.10 2" MW7 14.45 34.60 2" POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER	MONITORINE WELL NUMBER	DEPTHIIO WATER (TOC)	DEPTH TO PRODUCT (TOC)	APPARENT PRODUCT	AMOUNT OF PRODUCT REMOVED	MONITORIN WELL INTEGRITY	G DEPLHITO : BOTTOM: (TOC)	GENER/ GELD COMMEN
MW2* 22-75 22-59 32.20 2" MW3* 22.73 22.72 32.09 2" MW4 20.06 27.31 2" MW5 23.75 26.52 2" MW6 17.99 28.10 2" MW7 14.95 34.60 2" POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER	MW1	21.27					30.65	2"
MW3* 2.2.73 22.72 32.09 2" MW4 2.0.06 27.31 2" MW5 2.3.70 26.52 2" MW6 17.29 28.10 2" MW7 14.95 34.60 2" POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER	MW2*	22.75	22.59				32.20	2"
MW4 20.06 27.31 2* MW5 23.90 26.52 2* MW6 17.99 28.10 2* MW7 14.95 34.60 2* POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER	MW3*	22.73	22.72				32.09	2"
MWS 23.70 26.52 2" MW6 17.99 28.10 2" MW7 14.45 34.60 2" POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER	MW4	20.06					27.31	2"
MW6 17-29 28.10 2" MW7 14.45 34.60 2" POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER	MW5	23.90					26.52	2"
MW7 14.95 34.60 2" POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER	MW6	17:89					28.10	- 2"
POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER Image: Confirm With Bailer	MW7	14.95					34.60	2"
POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER Image: Confirm With Bailer		-	3					
POSSIBLE LPH - USE IP AND CONFIRM WITH BAILER								
Image: series of the series	POSSIBLE L	. <u>PH -</u> USE IP A		M WITH BAILE	R		•	
Image: series of the series								
Image: second	ļ							
Image: series of the series		,	· ·					
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Image: Sector of the sector								

G:\USERS\DFitzgerald\STROUGH FAMILY TRUST (2)\[SFTMonitoring' Note: Depth to bottom measured during first quarter unless noted.

4.T

		GROUND	WATER PURC	E AND SAMPL	.E	
Project Name:	STROUGH FA	MILY TRUST		Well No: MV		ate: 12-12-0
Project No:	TMSFT.6			Personnel: 🐼	/ PP	
GAUGING DA	ТА	· · · · · · · · · · · · · · · · · · ·				
Water Level M	easuring Method	: WATER LEVE	EL METER	Measuring Point	Description:	
WELL PURGE	Total Depth (feet)	Depth to Wat (feet)	er Water Colum (feet)	n Multiplier for Casing Diamete	Casing Volu	me Volume (ga
CALCULATION	30,651	21.27	9.38	× 1 /2 4 6	1.50	4.50
PURGING DAT	ГА			V		
Purge Method:	WATERRA	• • • • • • • • • • • • • • • • • • •	Purge Depth:	Pu	rge Rate:	(gpm)
Tine 👘 🖉 👘	7:38	7:40	7:42			
Volume Purge (gal)	<u>Z</u>	4	6			
emperature (C)	18.76	18.75	18.73			
H Statistics	6.37	6.36	6.30			
pec.Cond.(umhos)	969	961	9.73			
urbidity/Color	SILTY BEAL	BLUTT	SLUTER			
odor (Y/N)	N	V	N			
asing Volumes					· · · · · · · · · · · · · · · · · · ·	
ewatered (Y/N)	N	N	N	· ·		
mments/Obser	vbations:	LPH WELLS DE	TECT WITH IP ,	CONFIRM WITH B	AILER .	_ <u></u>
	3.6%- 33	MG/L	5.6 .54	- 12.1	- 1,10	
	196.9		<u>ن، ۲</u> ۱۶		45.6	
me Sampled:	7:45		Approximate Dept	h to Water During Sar	npling:	(feet)
mple Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Colo	Analysis Method
1~1	3	voas	HCL	40ml		TPH-g,BTEX,MTBE
MWI	2	amber	NONE	1L.		TPH-d,TEHo
tal Purge Volur	ne: Ca (gallons)		Disposal:		<u> </u>
eather Condition	ns: eK					· · · · · · · · · · · · · · · · · · ·
ndition of Well	Box and Casing a	at Time of Sampl	ing: CK			

•

G. USERS DFilzgeruld STROUGH FAMILY TRUST (2) (sft welldata.xls) Sheet

Project No: TMSFT.6 Personnel: Comparison GAUGING DATA Water Level Measuring Method: WATER LEVEL METER Measuring Point Description: Well, PURGE Vietness Total Derin (set) Derin 2000 Water (set) Vietness Command Method: Comparison Water (set) Total Derin (set) Comparison Water (set) Total Derin (set) Comparison Water (set) Compari	Project Name:	STROUGH FAM	AILY TRUST		Well No: MM	4	Date: 12.12.0
GAUGING DATA Water Level Measuring Method: WATER LEVEL METER Measuring Point Description: Well Purge Total Depth Dopting Water Casing Plantation Casing Plantation Well Purge Total Depth Dopting Water Casing Plantation Casing Plantation Casing Plantation Purge Method: WATERRA Purge Depth: Purge Rate: (gpm) Purge Method: WATERRA Purge Depth: Purge Rate: (gpm) Bio 7 Bio 8 Bio 9 Purge Rate: (gpm) Bio 7 Bio 8 Bio 9 Purge Rate: (gpm) Bio 7 Bio 8 Bio 9 Purge Rate: (gpm) Bio 7 Bio 8 Bio 9 Purge Rate: (gpm) Bio 8 Bio 9 Casing 446 Purge Rate: (gpm) Bio 8 Bio 9 Bio 8 Bio 9 Purge Rate: (gpm) Bio 8 Bio 9 Bio 8 Bio 9 Purge Rate: (gpm) Bio 9 Bio 8 Bio 9 Bio 8 Bio 9 Purge Rate: (gpm) Bio 9 Bio	Project No:	TMSFT.6			Personnel:	los	
Water Level Measuring Method: WATER LEVEL METER Measuring Point Description: WELF PURGE Coall Depth Depth to Vater Vater Coall Casing A particle Casing A parti	GAUGING DAT	A			<u></u>	-	
WELL PURGE (Ger)Oth Depth in Visite (Ger)Value Court (Ger)Multiple court Cample modeCample mode (Ger)Cample mode (Ger)Cam	Water Level Me	asuring Method:	WATER LEVE		Measuring Point	Description:	
CACULATION 2^{2} 7, 31 2^{2} 0.04 1^{2} 1/4 6 1.16 3.45 PURGING DATA Purge Method: WATERRA Purge Depth: Purge Rate: (gpm) Image Method: Image Method: Image Method: Image Method: Image Method: (gpm) Image Method: Image Me	WELL PURGE	Total Depth : (feet)	Depth to Wate (feet)	(feet)	Multiplier for Casing Biamete	Casing V (gal)	olume : Total Pu Volume (
Purge Method: WATERRA Purge Depth: Purge Rate: (gpm) Market Mark		27.31 Barroto	220.04	\$7.250		4 1.16	\$3.48
Purge Method: WATERRA Purge Depth: Purge Rate: (gpm) Number 8:07 8:08 6:09	PURGING DAT	A			······································		
Bio BioB BioP Vione Process I Z. Z. Internation I.9.13 I.9.14 I.9.17 Internation I.9.13 I.9.14 I.9.17 Internation I.9.13 I.9.14 I.9.17 Internation I.9.25 I.6.64 I.9.17 Internation I.6.27 I.6.65 I.6.64 I.9.17 Internation I.6.27 I.6.67 I.6.64 I.9.17 Internation I.6.82 I.6.57 I.6.46 I.9.17 Internation I.6.82 I.6.57 I.6.46 I.9.17 Internation N N N N I.9.17 Comments/Observbations: LPH WELLS DETECT WITH IP, CONFIRM WITH BAILER I.1.183 I.6.6.7.60 I.6.7.65 I.3.2 I.31.6 I.27.0 I.9.165 I.9.165 I.9.165 Sample Number Containers Containers Containers I.9.165 Introduty/Color Analysis M.W.A 3 <td< td=""><td>Purge Method:</td><td>WATERRA</td><td>· ·</td><td>Purge Depth:</td><td>Pu</td><td>rge Rate:</td><td>(gpm)</td></td<>	Purge Method:	WATERRA	· ·	Purge Depth:	Pu	rge Rate:	(gpm)
Autoc Hinds (a) I Z	Hime	8:07	8:08	8:09			
Intervalue I.9.13 I.9.14 I.9.17 Intervalue I.9.13 I.9.14 I.9.17 Intervalue I.6.7 I.6.5 I.6.64 State contributes I.682 I.687 I.466 Intervalue N N N N Intervalue N N N N Intervalue N N N N Comments/Observbations: LPH WELLS DETECT WITH IP , CONFIRM WITH BAILER. I.1.53 Interval I.6.6.7 I.6.7 I.6.5 I.35.2 I.31.6 I.27.0 I.6.6 Sample Number Number of Container. Type Perservalue Volume Filled (mE of L) Intubidity, Coor Analysis (mE of L) M.W 4 <	Volume Purge (gal).	l	2	3			
Image:	Temperature (C) :	19.13	19.14	19.17			
Second Unites 682 657 646 Torbalivic BH BA BH BA Solution N N N N Comments/Observbations: LPH WELLS DETECT WITH IP , CONFIRM WITH BAILER .	рНим	6.67	6-65	10-104			
Bit BAN Bit BAN Bit BAN Bit BAN Control N N N N Control N N N N Comments/Observbations: LPH WELLS DETECT WITH IP , CONFIRM WITH BAILER . - - 9.1 / .83 Lp. L/LO Lp - - 9.1 / .83 Lp. L/LO Lp LPH WELLS DETECT WITH IP , CONFIRM WITH BAILER . 9.1 / .83 Lp. L/LO Lp Lp - 7.35.2 131.4 127.0 - - SAMPLING DATA Time Sampled: 8.0 Approximate Depth to Water During Sampling: (feet) Comments: Containers: Containers: Containers: Number of Containers: Type Perservative Volume Filled Turbidity/ Color Ahellysis M W 4 3 voas HCL 40ml TPH-g.BTEX.MT M W 4 2 amber NONE 11 TPH-d.TEHo Total Purge Volume: 3 (gallons) Disposal: Weather Conditions: D/4 Condition of Well Box and Casing at Time of Sampling: 265	SpeciCond (Umhos)	682	1.00	1,46			
N N N N Comments/Observbations: LPH WELLS DETECT WITH IP, CONFIRM WITH BAILER. A: I /.83 (a. 6 /. 6 /. 6 /. 6 /. 6 /. 6 /. 6 /. 6	Turbidity/Color at.	BRN BRN	BRN BRN	BAN BOT			
Cland Volume - - - Device divining N N N N Comments/Observbations: LPH WELLS DETECT WITH IP , CONFIRM WITH BAILER . - 9.1 / .83 10.6 / .60 10.9 / .65 135.2 131.6 127.0 SAMPLING DATA Time Sampled: 9:10 Container: Type Sample Number Containers Containers Container: Type Sample Number Number of Container: Type Number of Containers Container: Type M W 4 3 voas M W 4 2 amber NONE 1L TPH-g.BTEX.MT Total Purge Volume: 3 (gallons) Weather Conditions: 0/4 Condition of Well Box and Casing at Time of Sampling: 2 ^{6/2}		N	N	N			
Devalement/NM N N N Comments/Observbations: LPH WELLS DETECT WITH IP, CONFIRM WITH BAILER. 4.1 / .83 (a.6 / .60 (b.9 / .65 135.2 131.6 127.0 SAMPLING DATA Time Sampled: 8.0 Approximate Depth to Water During Sampling: (feet) Comments: Sample Number of Containers Container Type Perservative Volume Filled (mE or L) Turbidity/ Color Analysis Method M W 4 3 voas HCL 40ml TPH-g.BTEX.MT M W 4 2 amber NONE 1L TPH-d,TEHo Total Purge Volume: 3 (gallons) Disposal: Weather Conditions: Dif- Condition of Well Box and Casing at Time of Sampling: 2 ⁶²⁻ 2 ⁶²⁻ 2 ⁶²⁻	Casing Volumes. or	~		-			
Comments/Observbations: LPH WELLS DETECT WITH IP , CONFIRM WITH BAILER . 9:1 / .83 (a.6 / .60 735:2 131.6 735:2 131.6 735:2 131.6 735:2 131.6 735:2 131.6 735:2 131.6 735:2 131.6 735:2 131.6 72:0 SAMPLING DATA Time Sampled: 9:0 Approximate Depth to Water During Sampling: (feet) Comments: Containers: Sample Number Containers: Containers: Container: Type Perservative Volume Filled M W 4 3 Voas HCL 40ml TPH-g.BTEX.MT M W 4 2 amber NONE NONE 1L TPH-d,TEHo Total Purge Volume: 3 Ø/4 Condition of Well Box and Casing at Time of Sampling: Ø/4 Condition of Well Box and Casing at Time of Sampling:	Dewatered (V/N)	N	N	N		-	
9.1 /.83 6.6 /.60 6.9 /.65 135.2 131.6 127.0 SAMPLING DATA Time Sampled: 8:0 Comments: Approximate Depth to Water During Sampling: (feet) Comments: Container: Type Sample Number Number of Container: Type Containers Container: Type Perservative Volume Filled M W 4 3 Voas HCL 40ml TPH-g.BTEX.MT N W 4 2 amber NONE M W 4 2 amber NONE M W 4 2 amber NONE M W 4 2 M W 4 2 Amber NONE Method TPH-d.TEHo Method Image: State	Comments/Observ	/bations:	LPH WELLS DE	TECT WITH IP ,	CONFIRM WITH B	I AILER .	,
135.2 131.6 127.0 SAMPLING DATA Time Sampled: 9:10 Time Sampled: 9:10 Approximate Depth to Water During Sampling: (feet) Comments: Containers Sample Number Number of Containers Container Type Perservative Volume Filled (mL or L) Turbidity/ Color M W 4P 3 voas M W 4P 2 amber NONE 1L TPH-g.BTEX.MT Total Purge Volume: 3 (gallons) Disposal: Weather Conditions: 0/4 Condition of Well Box and Casing at Time of Sampling: 9%	9.1/,83	6.61.6	0 16.	91.65			······································
SAMPLING DATA Time Sampled: 9:10 Time Sampled: 9:10 Approximate Depth to Water During Sampling: (feet) Comments: Containers Sample Number Number of Containers Container Type Perservative Volume Filled (mL or L) Turbidity/ Color Analysis Method M W 4 3 voas HCL 40ml TPH-g.BTEX.MT M W 4 2 amber NONE 1L TPH-d,TEHo Total Purge Volume: 3 (gallons) Disposal: Use the Conditions: Dif- Condition of Well Box and Casing at Time of Sampling: J ^{4/2} J ^{4/2} J ^{4/2}	135.2	131.6	12	.7.0			
Number of Containers Container Type Perservative Volume Filled (mL or L) Turbidity/ Color Analysis Method M W 4 3 voas HCL 40ml TPH-g.BTEX.MT M W 4 2 amber NONE 1L TPH-d,TEHo Total Purge Volume: 3 (gallons) Disposal: Weather Conditions: Dif- Condition of Well Box and Casing at Time of Sampling: 2 ^{i/-}	Time Sampled:	А 37.10		Annovimate Dept	h ta Water During Sa	nolina:	(foot)
Sample Number Number off Containers Container Type Perservative Volume Filled (mL or L) Turbidity/ Color Analysis Method M W 4 3 voas HCL 40ml TPH-g,BTEX,MT M W 4 2 amber NONE 1L TPH-d,TEHo M W 4 2 amber NONE 1L TPH-d,TEHo Total Purge Volume: 3 (gallons) Disposal: Use of the second se	Comments:					npinig.	(1001)
Sample Number Number of Containers. Container.Type Perservative Volume Filled (mL or L) Turbidity/ Color Analysis Method M W 4 3 voas HCL 40ml TPH-g.BTEX.MT M W 4 2 amber NONE 1L TPH-d.TEHo M W 4 2 amber NONE 1L TPH-d.TEHo Total Purge Volume: 3 (gallons) Disposal: Use of Sampling: Jiff Weather Conditions: Diff Disposal: Use of Sampling: Jiff Jiff							
M W 4 3 voas HCL 40ml TPH-g,BTEX,MT M W 4 2 amber NONE 1L TPH-d,TEHo M W 4 2 amber NONE 1L TPH-d,TEHo Total Purge Volume: 3 (gallons) Disposal: Weather Conditions: 014 Disposal: Disposal:	Sample Number	Containers	Container Type	Perservative	 Volume Filled (mL or L) = 	Turbidity/C	olor Analysis Method
M W 4 2 amber NONE 1L TPH-d, TEHo Total Purge Volume: 3 (gallons) Disposal: Weather Conditions: 014 014 Condition of Well Box and Casing at Time of Sampling: 215	MW4	3	voas	HCL	40m!		TPH-g,BTEX,MT
Total Purge Volume: 3 (gallons) Weather Conditions: Disposal: Condition of Well Box and Casing at Time of Sampling: 26-	MW4	2	amber	NONE	1L		TPH-d, TEHo
Total Purge Volume: 3 (gallons) Disposal: Weather Conditions: Dif Condition of Well Box and Casing at Time of Sampling: Dif							
Weather Conditions: Dif- Condition of Well Box and Casing at Time of Sampling: Dif-	Total Purge Volur	ne: 3 (aallons)		Disposal:		
Condition of Well Box and Casing at Time of Sampling:	Weather Condition	ns: Dif-	<u></u>				
	Condition of Well	Box and Casing a	it Time of Sampl	ing: 26-	·····		

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Project Name:	STROUGH FAI		ALLITUNG	Well No: MW	<u>-</u> Б Da	te: 12.17.02
Project No:	TMSFT.6		·····	Personnel:	100	
Water Level Me	asuring Method:	WATER LEVEL	METER	Measuring Point	Description:	
WELL PURGE	Total Depth (feet)	Depth to Water (feet):	Water Column (feet)	Multiplier for Casing Diamete	Casing Volum	ie i≕ Total Purg ≷ Volume (ga
CALCULATION	Z4.5Z (23.90)2.62 (1 2 4 6 0.04 0.16 0.64 1.4	4.41	91.25
PURGING DAT			D	V	D-4	
Puige Method.			Purge Deptn:			(gpm)
Time	8:29	8:30	8:31			
Volume Purgē (gal)	.50	1.0	1.5			
Temperature (C)	18,33	18.32	18.23			
pH = transfer	Ų.09	(e.10	6.09			
Spec:Cond.(umhos)	506	515	521			
Turbidity/Color	BEN BEN	BAN BLW	34N BEN			
Odor (Y/N)	N	N	N			
Casing Volumes	1.	-	<i>.</i> .			
Dewatered (Y/N)	N	N	Ν	· ·		
omments/Obser	vbations:	LPH WELLS DE	TECT WITH IP,	CONFIRM WITH B	AILER .	·····
3.4/2.95	1 29.1 /2	2.77 <u> </u> 2	19.2 12.24			, <u></u>
SAMPLING DAT	Γ <u>Γ</u> ΓΙΨ-Σ					
Time Sampled: Q	3,35		Approximate Dept	n to Water During Sar	npling:	(feet)
Comments:						
Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis
MWS	3	voas	HCL	40ml		TPH-g,BTEX,MTB
MWS	2	amber	NONE	1L		TPH-d,TEHo
Fotal Purge Volu	me: 1.5	(gallons)	Į	Disposal:		L
Veather Conditio	ons: 04			•		
Condition of Well	Box and Casing	at Time of Sampl	ing: 94			····
Nell Head Condit	tions Requiring Co	prrection: 1970	۶ 	· · · · · · · · · · · · · · · · · · ·		
Problems Encour	ntered During Pure	ging and Samplin	g: NOVE	,		



DO ORP

GROUNDWATER	DIIDCE	SAMDE
GROONDWATER	FURGE	JAWFLE

		GROUNDA	MIERFURG	E AND SAMPL	E	
Project Name:	STROUGH FA	MILY TRUST	<u></u>	Well No: MW		ate: 12 12 03
Project No:	TMSFT.6			Personnel:	LPP	
GAUGING DAT Water Level Me	A asuring Method:	WATER LEVEI	- METER	Measuring Point	Description:	
WELL PURGE VOLUME	Total Depth (feet)	Depth to Wate (feet)	r Water Colum (feet)	n Multiplier for Casing Diamete	Casing Volu r (gal)	me Total Purge Volume (gal)
	28.60 (17-89 (DIC.ZI (X 1 2 4 E	1,63	4.90
PURGING DAT	A	<u> </u>				
Purge Method:	WATERRA		Purge Depth:	Pu	rge Rate:	(gpm)
Time	6:46	6:49	6:52			
- Volume Purge (gal)	Z_	4	l			
Temperature (CC)	18.80	18.73	18.72			
$pH \stackrel{\mathrm{def}}{=} \underbrace{\sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{i=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{i$	6.76	6.76	6.76			
Spec.Cond.(umhos)	664	657	439			
	BLK BLK	BLK BLK	BUE BUE			
Odor (Y/N)	Ý	И	4			
Casing Volumes	_		-			
Dewatered (Y/N)	N	N	\mathcal{N}			
Comments/Observ	bations:	LPH WELLS DE	TECT WITH IP ,	CONFIRM WITH B	AILER .	
2.3/,21	2.4	1:23 1.5	5.11.47			
-12-5-7	1 -133-	5 4-	122.9			
SAMPLING DAT. Time Sampled: (Comments:	A 5:55		Approximate Dept	h to Water During Sar	mpling:	(feet)
Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MWG	3	voas	HCL	40ml		TPH-g,BTEX,MTBE
MWG	2	amber	NONE	1L		TPH-d,TEHo
 Total Purce Volum		(aallons)		Disposel		
Weather Condition	ns: OK	<u></u>				
Condition of Well I	Box and Casing :	at Time of Samoli	na: OL			
Well Head Conditi	ons Requiring Ca	prrection: NSVA	5			· · · · · · · · · · · · · · · · · · ·
Problems Encount	tered During Pure	ging and Samplin	g: NEVE			
	FAMILY TRUST 2510-6	dum viel Show!				
	and a successive state of the second state of	and the second sec				

ETIC ENGINEERING

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GROUNDWATER PURGE AND SAMPLE

Project Name:	STROUGH FA	MILY TRUST		Well No: MW	7 Da	te: 12.12-03
Project No:	TMSFT.6			Personnel		
GAUGING DAT	ГА					
Water Level Me	easuring Method:	WATER LEVEL	METER	Measuring Point I	Description:	
WELL PURGE	Total Depth (feet)	Depth to Wate (feet)	r Water Columi	Multiplier for Casing Diameter	Casing Volun (gal)	ne – Total Purge – Volume (gal)
	34.60 (\$14.95 (19.65		3.14	9.43
PURGING DAT	A			`````````````````````````````````	······	
Purge Method:	WATERRA		Purge Depth:	Pu	rge Rate:	(gpm)
Time	7:05	:08	7:11			
. Volume Purge (gal)	3	6	9			
Température (C)	20.10	20.27	19.97			
PH NOT STATE	4.85	6.83	4.85			
-Spec.Cond (umhos)	643	642	654			
Turbidity/Color	BRN BRN	BAN BAN	BAN BRW			
Odor (Y/N)	N	N	N			
Casing Volumes		-,	-			
Dewatered (Y/N)	N	N	N			
Comments/Observ	/bations:	LPH WELLS DE	TECT WITH IP ,	CONFIRM WITH BA	AILER .	
12.31 1.15	- 14.5	1.30	11.2/1.04			
SAMPLING DAT	1 66.		77.0			
Time Sampled	A 7:15		Approvimate Dept	h to Weter During San	polina:	(foot)
Comments:			-трргохітыю верг	ino wata bunng ban	npinig.	
Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW7	3	voas	HCL	40ml		TPH-g,BTEX,MTBE
MW7	2	amber	NONE	1L		TPH-d,TEHo
Total Purge Volur	ne: 7	(gallons)		Disposal:		
Weather Conditio	ns: DE	······································				
	Box and Casing	at Time of Sampl	ing: 🔍		<u></u>	······
Problems Encours	tered During Co	Direction: PONE	- almite			
Comments:	ւթյուն քանից ԲԱԼ	ying and samplin	y. 70012			
G:\USERS\DFitzgeruld\STROUG	H FAMILY TRUST (2) (sfi well	dain.xis]Shect1				······································



Appendix C

Laboratory Analytical Reports



ETIC Oakland

December 22, 2003

.1333 Broadway, Suite 1015 Oakland, CA 94612 Attn.: Luis Fraticelli Project#: TMSFT.9 Project: Strough Family Trust

Attached is our report for your samples received on 12/12/2003 16:30 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/26/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil Project Manager



ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015 Oakland, CA 94612 Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW1	12/12/2003 07:45	Water	1
MW4	12/12/2003 08:10	Water	2
MW5	12/12/2003 08:35	Water	3
MW6	12/12/2003 06:55	Water	4
MW7	12/12/2003 07:15	Water	5



ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015 Oakland, CA 94612 Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

				Dilation	/ silalyzou	l lay
Gasoline	ND	50	ug/L	1.00	12/18/2003 00:19	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	12/18/2003 00:19	
Benzene	ND	0.50	ug/L	1.00	12/18/2003 00:19	
Toluene	ND	0.50	ug/L	1.00	12/18/2003 00:19	
Ethylbenzene	ND	0.50	ug/L	1.00	12/18/2003 00:19	
Total xylenes	1.1	1.0	ug/L	1.00	12/18/2003 00:19	
Surrogate(s)						
1,2-Dichloroethane-d4	94.0	76-114	%	1.00	12/18/2003 00:19	
Toluene-d8	91.2	88-110	%	1.00	12/18/2003 00:19	

Severn Trent Laboratories, Inc. STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566 Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496



ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015 Oakland, CA 94612 Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Sample ID: MW4	appende
Sample ID: MW4	
	(
Sampled: 12/12/2003 08:10 Extracted: 12/18/2003 01:25	SAE.
QC, Batch#, 2003/12/17-02.64	<u> 1</u>
Analysis Flag. o (See Levend and Note Section)	
	16

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1300	ug/L	25.00	12/18/2003 01:25	
Methyl tert-butyl ether (MTBE)	1000	13	ug/L	25.00	12/18/2003 01:25	
Benzene	ND	13	ug/L	25.00	12/18/2003 01:25	
Toluene	ND	13	ug/L	25.00	12/18/2003 01:25	
Ethylbenzene	ND	13	ug/L	25.00	12/18/2003 01:25	
Total xylenes	ND	25	ug/L	25.00	12/18/2003 01:25	
Surrogate(s)						
1,2-Dichloroethane-d4	96.6	76-114	%	25.00	12/18/2003 01:25	
Toluene-d8	91.8	88-110	%	25.00	12/18/2003 01:25	

Severn Trent Laboratories, Inc. STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566 Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

A part of Severn Trent Pic



Fuel Oxygenates by 8260B

ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015 Oakland, CA 94612 Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Prep(s): 5030B Sample ID: MW5 Sampled: 12/12/2003/08:35			Test(s) Lab ID:	: 8260 2003 ad: 12/18	B -12-0455 - 3	
Matrix: Water		oran da 1944) Oran da 1944) Oran da 1944	QC Bai	ed. 12/10 (ch#: 2003/	/12/17-02.64	
Compound	Conc	RI	Unit	Dilution	Analyzed	Flag
Compound Gasoline	Conc.	RL 50	Unit	Dilution	Analyzed	Flag
Compound Gasoline Methyl tert-butyl ether (MTBE)	Conc. ND 1.5	RL 50 0.50	Unit ug/L ug/L	Dilution 1.00 1.00	Analyzed 12/18/2003 01:47 12/18/2003 01:47	Flag_
Compound Gasoline Methyl tert-butyl ether (MTBE) Benzene	Conc. ND 1.5 ND	RL 50 0.50 0.50	Unit ug/L ug/L ug/L	Dilution 1.00 1.00 1.00	Analyzed 12/18/2003 01:47 12/18/2003 01:47 12/18/2003 01:47	Flag

Benzene	ND	0.50	lug/L	1.00	12/18/2003 01:47
Toluene	ND	0.50	ug/L	1.00	12/18/2003 01:47
Ethylbenzene	ND	0.50	ug/L	1.00	12/18/2003 01:47
Total xylenes	ND	1.0	ug/L	1.00	12/18/2003 01:47
Surrogate(s)					
1,2-Dichloroethane-d4	95.5	76-114	%	1.00	12/18/2003 01:47
Toluene-d8	95.5	88-110	%	1.00	12/18/2003 01:47

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ETIC Oakland

Attn.: Luis Fraticelli

1333 Broadway, Suite 1015 Oakland, CA 94612 Phone: (510) 208-1600 Fax: (510) 208-1604

Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Analysis Flag: o (See Legend and Note Section)
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Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	12/18/2003 02:09	
Methyl tert-butyl ether (MTBE)	190	2.5	ug/L	5.00	12/18/2003 02:09	
Benzene	ND	2.5	ug/L	5.00	12/18/2003 02:09	
Toluene	ND	2.5	ug/L	5.00	12/18/2003 02:09	
Ethylbenzene	ND	2.5	ug/L	5.00	12/18/2003 02:09	
Total xylenes	ND	5.0	ug/L	5.00	12/18/2003 02:09	
Surrogate(s)						
1,2-Dichloroethane-d4	95.4	76-114	%	5.00	12/18/2003 02:09	
Toluene-d8	94.6	88-110	%	5.00	12/18/2003 02:09	

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Page 5 of 10

1.00 12/18/2003 02:31

1.00 12/18/2003 02:31

1.00 12/18/2003 02:31

1.00 12/18/2003 02:31

1.00 12/18/2003 02:31



Fuel Oxygenates by 8260B

ETIC Oakland

Toluene

Ethylbenzene

Total xylenes

Toluene-d8

Surrogate(s) 1,2-Dichloroethane-d4

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Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

0.50

0.50

1.0

76-114

88-110

ug/L

ug/L

ug/L

%

%

ND

ND

ND

96.4

90.7

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Project: TMSFT.9 Strough Family Trust Received: 12/12/2003 16:30

Prep(s): 5030B Method Blank MB: 2003/12/17-02.64-040	Bat	ch QC Report	Line Line Line D	Test(s) QC Batch # 2003/12/1 ate Extracted: 12/17/20(): 8260B 1 7-02.64 03 18:40
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/17/2003 18:40	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/17/2003 18:40	
Benzene	ND	0.5	ug/L	12/17/2003 18:40	:
Toluene	ND	0.5	ug/L	12/17/2003 18:40	
Ethylbenzene	ND	0.5	ug/L	12/17/2003 18:40	
Total xylenes	ND	1.0	ug/L	12/17/2003 18:40	
Surrogates(s)					
1,2-Dichloroethane-d4	93.4	76-114	%	12/17/2003 18:40	
Toluene-d8	96.6	88-110	%	12/17/2003 18:40	

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Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

			Batch QC R	eport				5		, an problem in a difference a
Prep(s); 5030B		and the second sec					8 a U. a., activity		Test(s):	8260B
Laboratory Control Spik	e -		Wate	r		L Q	C Batcl	n # 20	03/12/1	7-02.64
LCS 2003/12/17-02 LCSD 2003/12/17-02	64-055 64-017		Extracted: Extracted:	12/17/20 12/17/20	003 003		Analyza Analyza	ed: 12/ ed: 12/	'17/200: '17/200:	3 17:55 3 18:17-
Compound	Сопс.	ug/L	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	26.8 24.7 25.7	25.9 24.5 26.0	25.0 25.0 25.0	107.2 98.8 102.8	103.6 98.0 104.0	3.4 0.8 1.2	65-165 69-129 70-130	20 20 20		
<i>Surrogates(s)</i> 1,2-Dichloroethane-d4 Toluene-d8	488 462	479 471	500 500	97.6 92.4	95.8 94.2		76-114 88-110			



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Project: TMSFT.9 Strough Family Trust Received: 12/12/2003 16:30

			B	atch QC	Repo	rt	ya in nyangi Yang ngang ngang ngang Ngang ngang	inderen der einen Statistichen	Contraction Contraction		
Prep(s)5030B								ndar. Fil		- Test(s): 8260B
Matrix Spike (MS)	MSD)			Wate) r			QC Ba	tch # 2	:003/12/	17-02.64
MW1 >> MS	nder (* 1945) Storege (* 19		k - m Al-Al-Al-A Managera (Al-		na dyn in Fang di			ab ID;	200	03-12-04	155 - 001
MS: 2003/12/17-0	2.64-041		Extract	ed: 12/18	/2003		A	nalyzed:		12/18/20	003 00:41
ann an artean an Arta an Arta. An Arta an Arta		Quality of the) , D	ilution: 🖂			÷
MSD: 2003/12/17-0	2.64-003		Extract	ed: 12/18	2003		Á	nalyzed:		12/18/20	003 01:03
							er D	ilution:	nin der der der Der der der der		1,00
Compound	Conc.		ig/L	Spk.Leve	F	Recovery	%	Limit	s %	F	lags
•	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	24.0	26.5	ND	25.0	96.0	106.0	9.9	65-165	20		1

	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD	l
Methyl tert-butyl ether	24.0	26.5	ND	25.0	96.0	106.0	9.9	65-165	20			ł
Benzene	23.7	25.6	ND	25.0	94.8	102.4	7.7	69-129	20			
Toluene	24.6	26.5	ND	25.0	98.4	106.0	7.4	70-130	20			
Surrogate(s)						ľ						Į
1,2-Dichloroethane-d4	448	471		500	89.6	94.2	}	76-114				
Toluene-d8	482	454		500	96.4	90.8		88-110				ĺ

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Fuel Oxygenates by 8260B

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Project: TMSFT.9 Strough Family Trust

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Legend and Notes

ian r-

Analysis Flag

0

Reporting limits were raised due to high level of analyte present in the sample.

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Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW1	12/12/2003 07:45	Water	1
MW4	12/12/2003 08:10	Water	2
MW5	12/12/2003 08:35	Water	3
MW6	12/12/2003 06:55	Water	4
MW7	12/12/2003 07:15	Water	5

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Prep(s): Sample ID Sampled:	3510/8015M MW1 12/12/2003 07:45			Test(s) Lab ID	: 8015 2003	M 12-0455 + 1	
Matrix:	Water		RI		tch#: 2003	12/19-01.10	
Diese! Motor Oil Surrogate(s)	58 ND	50 500	ug/L ug/L	1.00 1.00	12/19/2003 14:21 12/19/2003 14:21	ndp



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Project: TMSFT.9 Strough Family Trust Received: 12/12/2003 16:30

Prep(s): 3510/8015M Sample ID: MW4 Sampled: 12/12/2003.08:10 Matrix: Water			Test(s) Lab ID Extract QC Bat	8015 2003 ed: 12/16 tch#; 2003	M .12-0455 - 2 /2003 05:33 .12/16-01.10	
and the second device and the second day in the second second with			entering the court of the state		the summer of the second	10. A 04.0 - 20 - 001.0 - 103
Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Compound Diesel	Conc. ND	RL 50	Unit ug/L	Dilution 1.00	Analyzed 12/16/2003 15:03	Flag
Compound Diesel Motor Oil	Conc. ND ND	RL 50 500	Unit ug/L ug/L	Dilution 1.00 1.00	Analyzed 12/16/2003 15:03 12/16/2003 15:03	Flag
Compound Diesel Motor Oil Surrogate(s)	Conc. ND ND	RL 50 500	Unit ug/L ug/L	Dilution 1.00 1.00	Analyzed 12/16/2003 15:03 12/16/2003 15:03	Flag

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1.00 12/19/2003 14:52



TEPH w/ Silica Gel Clean-up

ETIC Oakland

o-Terphenyl

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Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Compound Diesel Motor Oil	Conc. ND ND	RL 50 500	Unit ug/L ug/L	Dilution 1.00 1.00	Analyzed 12/19/2003 14:52 12/19/2003 14:52	Flag
Compound Diesel	Conc. ND	RL 50	Unit ug/L	Dilution 1.00	Analyzed 12/19/2003 14:52	Flag
Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
		1				
Sample ID: MW5 Sampled: 12/12/2003 0 Matrix: Water	8:35		Lab ID Extract QC Bat	2003 ed: 12/19 ch#: 2003/	-12-0455 - 3 //2003 10:11 /12/19-01 10	
[12] S. M. S. Markinski, M. K. B. M. K. M.		The second se		A set of the second sec	Construction of the second	

60-130

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Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Prep(s) 3510/8015M	1		Test(s)	8015	M A CARLENDARY CONTRACTOR	2470) in the set Mark Striker (1996)
Sample ID: MW6			Lab ID	2003	-12-0455 - 4	
Sampled: 12/12/2003	06:55	an a	Extract	ed: 12/19	/2003 10:11	
Matrix: Water			OC Ba	tch# 2003/	12/19-01 10	
		Children and the				
Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Compound Diesel	Conc. 51	RL 50	Unit ug/L	Dilution 1.00	Analyzed 12/19/2003 15:23	Flag
Compound Diesel Motor Oil	Conc. 51 ND	RL 50 500	Unit ug/L ug/L	Dilution 1.00 1.00	Analyzed 12/19/2003 15:23 12/19/2003 15:23	Flag ndp
Compound Diesel Motor Oil Surrogate(s)	Conc. 51 ND	RL 50 500	Unit ug/L ug/L	Dilution 1.00 1.00	Analyzed 12/19/2003 15:23 12/19/2003 15:23	Flag ndp



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Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Prep(s): 3510/8015M Sample ID: MW7 Sampled: 12/12/2003	A 07:15		Test(s) Lab ID Extract	: 8015 2003 ed: 12/16	M 12-0455 - 5 /2003 05:33	
Matrix: Water	Conc	RI	QC Ba	tch# 2003	12/16-01.10	Flag
Diesel	ND	50		1.00	12/16/2003 16:04	<u>riay</u>
		1	1.9.4			
Motor Oil	ND	500	ug/L	1.00	12/16/2003 16:04	

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Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

	Bat	ch QC Report	1865-1875-1995-1995-1995-1995-1995-1995-1995-19		
Prep(s):/3510/8015M				Teetre	8015M
Method Blank		Water		QC Batch # 2003/12/	16-01.10
MB: 2003/12/16-01.10-003		n an the second second	D State	ate Extracted: 12/16/20	03 05:33
					38 (0.58 e.X.)
Compound	Conc.	RL	Unit	Analyzed	Flag
Compound Diesel	Conc. 93.2	RL 50	Unit ug/L	Analyzed 12/16/2003 14:32	Flag
Compound Diesel Motor Oil	Conc. 93.2 ND	RL 50 500	Unit ug/L ug/L	Analyzed 12/16/2003 14:32 12/16/2003 14:32	Flag b

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Received: 12/12/2003 16:30

	Bate	h QC Report			
Prep(s): 3510/8015M					-8015M
MB: 2003/12/19-01.10-001			D	QC Batch # 2003/12/ ate Extracted: 12/19/20(19-01.10 03 10:11
Compound	Conc.	RL	Unit	Analyzed	Flag
Compound Diesel	Conc. ND	RL 50	Unit ug/L	Analyzed 12/19/2003 14:21	Flag
Compound Diesel Motor Oil	Conc. ND ND	RL 50 500	Unit ug/L ug/L	Analyzed 12/19/2003 14:21 12/19/2003 14:21	Flag
Compound Diesel Motor Oil Surrogates(s)	Conc. ND ND	RL 50 500	Unit ug/L ug/L	Analyzed 12/19/2003 14:21 12/19/2003 14:21	Flag



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Compound Diesel	Conc. LCS 902	ug/L LCSD 843	Exp.Conc.	Reco LCS 90.2	LCSD 84.3	RPD % 6.8	Ctrl.Lin Rec. 60-130	nits % RPD 25	Fla LCS	ags LCSD		
Compound	Conc. LCS	ug/L LCSD	Exp.Conc.	Reco LCS	very %	RPD %	Ctrl.Lin Rec.	nits % RPD	Fl	ags LCSD		
Compound	Conc.	ug/L	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fl	ags		
THE PART OF A DESCRIPTION OF A DESCRIPTION OF A												
LCS 2003/12 LCSD 2003/12	/16-01.10-001 /16-01.10-002	ni i zamiji Nari Antoriza I Marija Interna Antoriza (Marija	Extracted: Extracted:	12/16/2 12/16/2	003 003		(16/200 (16/200	03 15:03 03 15:34				
Laboratory Contr	ol Spike	in the second se	Wate	ongelige of Manager	141 AMA 1445 AMA	OC Batch # 2003/42/46 04						
Prep(s): 3510/801	5M		a Constant and a second se	(Deserve)	in in j				Test(s):	8015M		
	and the second	Country of California Section 2016	The second design of the second secon	And a second sec								

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17.7

Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Diesel	LCS 917		1000	LCS 91,7	LCSD 93.5	% 1.9	Rec. 60-130	RPD 25	LCS	LCSD
	LCS			LCS	LCSD	%	Rec.	RPD	LCS	LCSD
oompound										
Compound	Conc.	ug/L	Exp.Conc.	Reco	overy %	RPD	Ctrl.Lin	nits %	Fla	ags
LCS 2003/12 LCSD 2003/12	/19-01.10-002 /19-01.10-003		Extracted: Extracted:	12/19/2 12/19/2	2003 2003		Analyze Analyze	ed: 12/ ed: 12/	'19/200: '19/200:	3 14:52 3 15:23
Laboratory Contro	ol Spike	의 전쟁 (1975) 고려 전에서, 특징	Wate			Q	C Batch	i # 20(03/12/1	9-01.10
Prep(s): 3510/801	5M.		an de la companya Marina de la companya Marina de la companya de la companya						Test(s):	8015M

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Project: TMSFT.9 Strough Family Trust

Received: 12/12/2003 16:30

Legend and Notes

Result Flag

b

Analyte was found in the method blank at a concentration greater than the reporting limit.

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

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SEVERN TRENT Services	ST _{Chai}	L n of C	ustody	•				1220 Pho	Quai ne: ((rry Le 925) / Emai	ine 184-1 1: inf	Plea 919 Drach	Santo Fax	n CA (925 ab.cor	9456) 484 n	6-475 -1096	6	Ψ.		Reference #: 81122						
From		·				<u>.</u>		e A	ŰŰ	15	-1	2	0	42	55	, . 			Date	(1 Carrie	• ۲۵۰	<u> </u>	Page	<u> </u>	of	
Proj Mar L	UIS FI	RATIC	ELLI				1	ss dela	1					Ar	ialysi	s Rec	uest			•••••••			a garan	عايرات	e	
Company E	ETIC				.		n é					ł						Ţ.						Ţ		
Address 1	333 B		WAY,S	TE.	1015	- ;									l.											
Sampler (Sinea	DAKLA	VD C/	<u>\. 9461</u>	2		ļ	Å Å							1			ĺ					1	ĺ			
LAR	X		- Daretta Bei stager			(Jec)				1																
Phone (510)208	6-1600	Fax/En	wii(510)2	08-16(X		e og		1												İ	i i		1	1	
Sansplo	ÍD.	Cal	- Tima	t dat	Ptes	Ŧ.		8		*77 - Hartill (Alecsic)	« Cžesnahe	nez-d lakaranian	i-to promotopian	ti a Minetzie worzanie		iki oleon sani musi	100 (100 - 100 (100 (100))	n analan maa	2 (541) M (51) M (561) (542)	MOTO BARDON - 1	***************	1992 Hand Labored	- in succession of the	ty museumus	trace of a	
MW1		12/	7 1-1-14	- W	HCL		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		·[-				-							ĺ				
MW2				W	HCL	12		<u> </u>	<u> </u>		<u> </u>		-	<u> </u>	<u> </u>								· · · · · · · · · · · · · · · · · · ·			
MW3			••••	W	HCL	x		1					<u> </u>			<u> </u>							-11			
WW4		┼┟─	- Vite	W	HCL	1			ļ											·····	*****					
NW5	···	11-	8:35	W	HCL	x	x			<u> </u>	<u> </u>	-		· · · ·		<u> </u>		L					·····			
AW6	····		6:55	W	HCL	×	x	÷.	<u>. </u>	<u> </u>																
À₩7.			7:15	W	HCL	×	X	x							·				1. March 1							
			·····	1	İ					<u> </u>						ļ										
		M		<u> </u>		£				<u> </u>																
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