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Alameda County Environmental Health

Mr. Steven Plunkett Hazardous Substances Scientist Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502

Subject: Letter Report: Supplemental Soil and Groundwater Investigation

Fuel Leak Case No. RO0000052

Former Peterson Manufacturing Company Facility

1600 63rd Street Emeryville, California

Dear Mr. Plunkett:

This letter report is submitted by Treadwell & Rollo, Inc. on behalf of Wareham Property Group to document the Supplemental Soil and Groundwater Investigation at 1600 63rd Street, Emeryville, California (the "Site").

The work included soil borings, installation, surveying, and development of five groundwater monitoring wells (designated TR-1 through TR-5), abandonment of four existing groundwater monitoring wells (designated MW-1, MW-3, MW-4, and MW-5), collection and analysis of soil and groundwater samples, and a free product recovery investigation. The work summarized in this letter report was performed as described in our workplan dated 30 October 2006 (Treadwell & Rollo, 2006a). Alameda County Health Care Services Agency requested modifications to the original workplan in a letter dated 16 November 2006 (ACHCSA, 2006a). Treadwell & Rollo, Inc. prepared an addendum to incorporate the ACHCSA comments, and the workplan was approved by ACHCSA. A sensitive receptor survey will be submitted separately.

BACKGROUND

The Site is located at 1600 63rd Street, Emeryville, California (Figure 1). The Site occupies 2.75 acres bounded by 63rd Street to the south, Overland Avenue to the west, 64th Street to the north, and the City of Emeryville Fire Station Number 2 to the east (Figure 2). The surrounding land use is primarily commercial and light industrial.

The property was originally developed as a tallow manufacturing plant by Peterson Manufacturing Company in 1914. Historical records indicate six underground storage tanks (USTs) were previously located at the Site (Figure 2).



The Site has been operated as a Fed Ex shipping facility since 1989, when the Site was redeveloped and construction of the Fed Ex facility was completed. Fed Ex currently operates one 10,000 gallon gasoline UST at the Site.

Numerous environmental investigation and remediation activities by others have occurred at the Site since 1987. Activities included: underground storage tank removal, overexcavation and disposal (or landfarming) of affected soil, numerous soil borings, collection and analysis of soil and groundwater samples, installation and sampling of monitoring wells, and cone penetrometer testing. Details of previous activities have been reported elsewhere, and are not duplicated in this report. Historical data is summarized in Tables 1, 3, 4, and 6.

Groundwater at the Site has been monitored since 1989. Based on historical and current data, groundwater flows towards the west.

WELL INSTALLATION AND SAMPLING

Soil Borings

Drilling permits were obtained from Alameda County Public Works Agency (Appendix A). Encroachment permits were obtained from the City of Emeryville (Appendix A).

Prior to performing the well installation activities, Treadwell & Rollo notified Underground Service Alert (USA) and subcontracted Norcal Geophysical of Cotati, California, to identify and locate underground utilities at the work site. Underground utilities were not present at proposed drilling locations.

On 9-11 January 2007, Treadwell & Rollo advanced nine soil borings to 20-feet at the Site. Soil samples were collected continuously during drilling and classified in the field in accordance with the Unified Soil Classification System (ASTM Standard 2488-93). Boring logs are presented in Appendix B. An organic vapor monitor (OVM) was used to screen the soil samples. Samples were also examined for chemical staining and chemical odor. Selected soil samples were retained for laboratory analysis based on these findings. Samples were analyzed for Total Petroleum Hydrocarbons (TPH)-diesel, TPH-gasoline/BTEX/Fuel Oxygenates (including Ethanol) (EPA Method 8260), and total lead. Laboratory analytical data for soil samples collected in January 2007 are summarized in Table 2. Laboratory analytical reports and chain-of-custody forms are included in Appendix E.

Subsurface Conditions

Subsurface geology generally consisted of the following:



- Fill material is observed from beneath the asphalt surface to approximately 2 to 3 feet below ground surface
- A fine-grain layer with intermittent, interbedded coarse-grain material is observed from approximately 2 to 3 until 6 to 8 feet below ground surface.
- A layer of interbedded fine- and coarse-grain material exists from approximately 6 to 8 until 12 to 15 feet. In boring TR-3, a layer of coarse-grain material (sand with gravel) exists above this interbedded layer from 6 to 8 feet.
- A layer of coarse grained material is generally observed from 12 to 15 feet to 17 to 20 feet (maximum depth explored). In some borings, a fine-grain layer is observed underlying the coarse-grain material from 17 to 20 feet. In boring TR-1, the subsurface is primarily fine grained from 12 to 20 feet.

Groundwater Sampling from Temporarily Cased Boreholes

Four of the borings (SB-1, SB-2, SB-3, and SB-4) were temporarily cased using 1-inch PVC screen. Water levels were measured using an oil/water interface meter (to detect potential free product). For borings containing floating free product, the intake line from a peristaltic pump was plugged using wadded paper and lowered through the free-phase product. The intake was then positioned in the middle of the water column. The pump was then run in reverse to "blow out" the wadded paper. After the intake was cleared, a grab sample was collected from beneath the floating free-phase product, while the free product level was monitored with an interface meter to ensure that the intake remained below the free-phase product level. A new intake line was used at each boring.

Monitoring Well Installation

Five of the borings (TR-1, TR-2, TR-3, TR-4, and TR-5) were overdrilled to a larger diameter using hollow stem augers, and a 20-foot monitoring well was constructed using 2-inch PVC and 15-feet of factory slotted screen within each boring. The borehole annulus was filled with #2/12 silica sand to a depth of approximately 1-foot above the screen. Approximately 1-foot of untreated bentonite chips were placed above the sand and then hydrated. The remainder of the boring annulus (±3-feet) was filled with cement-bentonite grout. A traffic rated utility box was placed at the ground-surface and set in concrete.

The five new monitoring wells (and one existing monitoring well, MW-2) were surveyed on 15 January 2007 by CSS Environmental Services of Novato, CA. The monitoring wells were surveyed relative to mean sea level.



Monitoring well and boring locations are shown on Figure 2. Soil boring logs and well completion diagrams are presented in Appendix B. Survey data is presented in Appendix C. DWR 188 Forms are presented in Appendix H.

Monitoring Well Development

After the well installation was complete, the grout and concrete were allowed to set for more than 72 hours prior to well development. On 15 January 2007, the wells, not containing free phase product, were developed to remove suspended solids in the well and filter pack created during well construction. These wells were developed by surging, bailing, and overpumping approximately 10 casing volumes of water from each well. Purge water collected during well development was stored in 55-gallon drums on site for subsequent profiling and disposal. Treadwell & Rollo, Inc. attempted to collect water quality data during development of the monitoring wells. However, the field meter malfunctioned during activities and accurate data could not be collected at that time. Limited water quality data was obtained at a later time, and the data is summarized in Table 7. Groundwater Sampling Forms are presented in Appendix D.

Groundwater Purging and Sampling

On 15 January 2007, Treadwell & Rollo collected groundwater samples from each of the six wells. Prior to sampling, monitoring wells not containing free-phase product were purged using a submersible pump. During well purging, the field meter malfunctioned and accurate data could not be collected at that time. Limited water quality data was obtained at a later time, and the data is summarized in Table 7. Purge water collected from the monitoring wells was stored in 55-gallon drums on site for subsequent profiling and disposal.

For monitoring wells containing free-phase product, unpurged grab groundwater samples were collected using a peristaltic pump. The free-phase product sampling method is discussed above in groundwater sampling from temporarily cased boreholes.

Groundwater samples were collected using a new disposable bailer for each well. Samples were transferred into the appropriate preserved sample containers. Dedicated equipment was used during all sampling procedures; therefore, no rinse blanks were collected. Groundwater Sampling Forms are presented in Appendix D.

All samples were placed in iced coolers and delivered for analysis under chain-of-custody protocol to TestAmerica, a State-certified laboratory in Morgan Hill, California. Groundwater samples were analyzed for TPH-diesel, TPH-gasoline/BTEX/Fuel Oxygenates (including ethanol, EPA Method 8260) and total lead.



QA/QC Samples

Field QA/QC samples were not collected. Laboratory QA/QC blanks and duplicates were provided by TestAmerica.

Soil Sampling Results

The results of the soil analyses are presented on Table 2. Laboratory analytical reports and chain-of-custody forms are presented in Appendix E.

The primary contaminant of concern in soil is TPH-diesel range quantified hydrocarbons. TPH-gasoline range quantified hydrocarbons, ethylbenzene, and xylene were also detected, but at concentrations below the 2005 San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels, Table B-2, Shallow Soil Screening Levels (<3m bgs), Commercial/Industrial Land Use, potentially impacted groundwater is not a current or potential drinking water resource (ESLs). The petroleum hydrocarbons appear to be primarily confined to the northwest corner of the property coincident with the observed free phase product plume.

TPH-diesel range quantified hydrocarbons ranged from 1.3 mg/kg (TR-4, 8.5-9.0 & 19.5-20 feet bgs) to 4,200 mg/kg (TR-2, which contains free phase product, 14.5-15 feet bgs). TPH-diesel range hydrocarbons were observed in the offsite soil samples ranging from 2.1 mg/kg (SB-2. 6-6.5 feet bgs) to 3,800 mg/kg (SB-4, 17.5-18 feet bgs).

Review of the chromatograms shows the compounds do not match lab standards, which suggests that the detected compounds are indicative of weathered petroleum fuel hydrocarbons.

Groundwater Sampling Results

The results of the groundwater analyses are presented on Table 9 and Figure 4. Laboratory analytical reports and chain-of-custody forms are presented in Appendix E.

The primary contaminants of concern are TPH-diesel range hydrocarbons and TPH-gasoline range hydrocarbons. Fuel oxygenates (MtBE and DiPE) were also detected in selected groundwater samples, but at concentrations below the environmental screening levels (RWQCB 2005). The petroleum hydrocarbons appear to be primarily confined to the northwest corner of the property coincident with the free-phase product plume.

Dissolved TPH-diesel range hydrocarbons in the new and existing wells ranged from 0.098 mg/L (upgradient, MW-3) to 480 mg/L (TR-2, which contains free-phase product). Dissolved TPH-diesel range hydrocarbons in the temporarily-cased borehole groundwater samples ranged from 33 mg/L (SB-2) to 150 mg/L (SB-4).



Dissolved TPH-gasoline range hydrocarbons in the new and existing wells ranged from non detect (<0.5 mg/L) in wells TR-1, TR-3, and TR-4 to 12 mg/L in TR-5. Dissolved TPH-gasoline range hydrocarbons in the temporarily-cased borehole groundwater samples ranged from 1.6 mg/L (SB-2) to 140 mg/L (SB-1).

Review of chromatograms from boring SB-1 suggest that the detected compounds are indicative of weathered hydrocarbons, and do not suggest specific patterns of TPH-gasoline or TPH-diesel. This is evidenced by the detection not matching lab standards, as well as, the lack of BTEX compounds in the samples. TPH-gasoline has historically been detected in MW-2 (see Table 6). Chromatograms from previous sampling events were not available for review to confirm if the gasoline matches the laboratory standards, but the absence of BTEX compounds may be indicative of weather hydrocarbons.

SB-1 chromatograms are included in Appendix F.

MONITORING WELL ABANDONMENT

On 15 January 2007, four monitoring wells (MW-1, MW-3, MW-4, and MW-5) were abandoned after discussion with Alameda County Health Care Services Agency. Monitoring wells MW-1, MW-3, and MW-4 were replaced with new monitoring wells, TR-1, TR-3, and TR-4 respectively, which were installed with screens that properly intersect the shallow groundwater zone. Monitoring well MW-5 was screened from a depth of 25-32 feet, and has historically non-detect chemical concentrations. Historical data for the abandoned wells is summarized in Table 1, Table 4, and Table 6. The abandoned monitoring wells are shown on Figure 2.

FREE PHASE PRODUCT RECOVERY TESTING

Floating free-phase product was observed in monitoring wells MW-2, TR-2 and TR-5. Free-phase product thickness was measured using an oil/water interface meter. A bailer was used to remove free product from each monitoring well. Free-phase product removal was confirmed using the interface meter. Free-phase product thickness has been measured every two weeks following well installation and initial sampling events. Floating free-phase product thickness has been measured up to 0.69-feet (TR-2, 15 January 2007). Temporal data suggests free-phase product accumulation in the wells is relatively slow.

The results of the free product recovery testing are summarized in Table 5. The lateral extent of free-phase product is shown on Figure 5.



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CONCLUSIONS AND RECOMMENDATIONS

The presence of petroleum fuel hydrocarbons was confirmed in shallow groundwater throughout the Site. Floating free-phase product exists in the northwestern portion of the Site. Elevated concentrations of petroleum hydrocarbons were discovered in off-site soil and groundwater samples. Free-phase product was observed in offsite soil and groundwater samples.

We recommend a quarterly monitoring program for the six existing monitoring wells to confirm the initial investigation report and to evaluate whether site conditions fluctuate seasonally. After one year of quarterly monitoring (4 events), a feasibility study may be appropriate to evaluate remedial alternatives for the Site.

Free product should be passively controlled using a sorbent sock system while additional monitoring data is obtained to effectively characterize the site.

Feel free to contact me at 510/289-9310 ext. 556 with any questions or comments.

Sincerely yours,

TREADWELL & ROLLO, INC.

Matthew B. Hall Project Scientist

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Attachments: Tables

Tables

Figures

Appendices Appendix A – Permits

Appendix B – Soil Boring Logs and Well Construction Diagrams

David R. Kleesattel

Professional Geologist

Appendix C – Surveyor's Report

Appendix D – Groundwater Sampling Forms Appendix E – Laboratory Analytical Report

Appendix F – Chromatograms

Appendix G – Dimensioned Well Locations

Appendix H – DWR 188 Forms



TABLES

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TABLE 1 SUMMARY OF HISTORICAL SOIL SAMPLE RESULTS 1600 63rd Street, Emeryville, CA

							Chemi	ical Concentra	tions Detected	(mg/kg)			
Sample No.	Date Sampled	Depth (below ground surface)	Notes	TOG	ТРНд	TPHd	трн	Benzene	Toluene	Ethyl- benzene	Total Xylenes	PCBs	TFH (Modified 8015)
Kaldveer													
EB-1	3/30/1987	3.0			1,600	380							
EB-2	3/30/1987	2.5		ND (1)									
EB-3	3/30/1987	3.0		120 (1)									
EB-4	3/30/1987	4.5	(2)					0,006	0.011	ND	ND		ND
EB-5	3/30/1987	6.0		1,300									ND
EB-6	3/30/1987	7.5		190 (1)	ND								
Engineering	Science												
		2.5, 6.5											
BH-1	9/2/1987	Composite		4,800			1,900						
BH-3	9/8/1987	1.0		100			<100						
		2.5, 4.5											
BH-4	9/2/1987	Composite			1,300								
		2.5, 6.0											
BH-5	9/2/1987	Composite			1,300	ND							
		1.0, 3.5											
BH-6	9/2/1987	Composite			17								
		3.5, 9.5										ND	
BH-7	9/8/1987	Composite				20						ND	
		2.5, 6.0, 9.0									1	ND	
ВН-8	9/8/1987	Composite		<100			<100					עא	
		5.5, 10.0										ND	
BH-9A	9/9/1987	Composite				16						ND	
BH-10	9/9/1987	2.5		<100			<100						
ES/MW-1	11/5/1987	5.0	(5)		360	(6)		0.7	0.8		1,2		
ES/MW-2	11/6/1987	5.0		<250			<250						<10
ES/MW-3	1/6/1988	4.5	(2)				1,100	ND	0.6	ND	ND	< 0.3	
Peterson-													
ASP	5/6/1988	2.0	(2)(4)				43,000				0.71	ND	
		0.5 Composite									1		
WPRS-C	5/11/1988	100-ft grid	(2)(3)					ND	ND	ND	ND	0.042	
WIRDC	3/11/1200	100 11 8110	(-) (-)		1								
Harding Lav	l												
MW-2	5/1/1989	5.0	(7)		15	212		< 0.005	< 0.005	< 0.005	< 0.005	ND	
IVI VV -2	3/1/1909	9.5	(7)		<10	<10		<0.005	< 0.005	< 0.005	<0.005	ND	
		7.7	(,,		· · · ·		 						1
Certified							 	1	1				1
BI	7/13/1994	12.0			<2	<2	 	0.011	0.1	0.14	0.26		
B2	7/13/1994	12.0			<2	<2		0.013	0.038	0.04	0.12		
	7/13/1994	12.0			<2	<2		0.013	0.030	0.14	0.47	 	
B3					<2	<2	 	<0.005	0.018	0.14	0.1		
B4	7/13/1994	12.0			1 -2	-2		~0.003	0.016	0,017	0.1	 	
				<u></u>	<u> </u>	4	1 400	0.20	+	1 22	1 11	0.74	1.00000.000
ESL				1,000	400	500	400	0.38	9.3	32	11	0.74	J

Notes:			
mg/kg	= milligrams per kilogram	(1)	GC/FID Waste Oil Standard
TOG	= Total Petroleum Hydrocarbons as Oil and Grease	(2)	Other EPA 8240 analytes not detected
TPHg	= Total Petroleum Hydrocarbons as Gasoline.	(3)	Composite soil sample collected at roughly a 100 foot grid across the site from
TPHd	= Total Petroleum Hydrocarbons as Diesel.		approximately 3 to 6 inches below the surface.
TPH	= Total Petroleum Hydrocarbons	(4)	440 ppm lead, 6.1 ppm flourene, 19 ppm phenanthrene, 7.7 ppm flouranthene,
PCBs	= Polychlorinated Biphenyls		16 ppm pyrene, 23 ppm chrysene, 9.6 ppm benzo(a)anthracene detected.
MTBE	= Methyl-tert-butyl ether	(5)	4.9 ppm lead detected.
	= Not Analyzed.	(6)	Result reported as gasoline and diesel.
ND	= Not Detected.	(7)	Other EPA 8010, 8020, 8270 and 8080 analytes not detected.
<	= Below Specified Reporting Limits.		
ESL	= Environmental Screening Level, Shallow Soil, Groundwate	r is not a source of d	rinking water, Commercial/Industrial Land Use (RWQCB 2005)
1.300	- Bold entries exceed the Environmental Screening Levels		

Treadwell&Rollo

TABLE 2 SOIL SAMPLING RESULTS JANUARY 2007 BORINGS 1600 63rd Street, Emeryville, CA

				Chemical	Concentratio	ons Detected (mg/kg)			
Sample No.	Date Sampled	Depth (below ground surface)	TPHg (1)	TPHd (1)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Fuel Oxygenates (including Ethanol)	Total Lead
Treadwell & Rollo, Inc.										
SB-1	1/10/2007	6-6.5	<0.1	2.9	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	8.9
	1/10/2007	9.5-10	120	1,700	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
	1/10/2007	14.5-15	57	1,500	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	9.2
	1/10/2007	19.5-20	<0.1	5.9	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
SB-2	1/10/2007	6-6.5	<0.1	2.1	< 0.005	<0.005	< 0.005	< 0.005	<0.005 to <0.1	6
	1/10/2007	9.5-10	0.16	98	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
	1/10/2007	14.5-15	33	770	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	5
	1/10/2007	17-17.5	1.9	340	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
•	1/10/2007	19.5-20	0.45	45	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
SB-3	1/10/2007	6-6.5	2.5	340	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	5.5
	1/10/2007	9.5-10	31	280	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	17
	1/10/2007	14.5-15	1,2	18	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
	1/10/2007	17-17.5	57	660	< 0.005	<0,005	0.013	0.05	<0.005 to <0.1	5
	1/10/2007	19.5-20	<0.1	4,1	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
SB-4	1/10/2007	6-6.5	0.62	240	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	5.3
	1/10/2007	9.5-10	79	910	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	6.2
	1/10/2007	14.5-15	5.1	630	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	6,3
	1/10/2007	17.5-18	220	3,800	< 0.025	< 0.025	< 0.025	< 0.025	<0.012 to <0.5	6.9
	1/10/2007	19.5-20	0,27	44	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	6
TR-I	1/9/2007	4.5-5	<0.1	27	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	22
	1/9/2007	8-8.5	< 0.1	14	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	6.2
	1/9/2007	9.5-10	<0.1	2.8	<0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	11
	1/9/2007	14.5-15	<0.1	2.4	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	8.4
	1/9/2007	19.5-20	<0.1	2,2	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	12
TR-2	1/9/2007	4.5-5	<0.1	10	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	130
	1/9/2007	9.5-10	1.4	2,100	< 0.025	< 0.025	< 0.025	< 0.025	<0.012 to <0.5	6.3
	1/9/2007	14.5-15	82	4,200	< 0.025	< 0.025	< 0.025	< 0.025	<0.012 to <0.5	6.6
	1/9/2007	19.5-20	3.9	490	< 0.025	< 0.025	< 0.025	< 0.025	<0.012 to <0.5	13
TR-3	1/9/2007	4.5-5	1.3	490	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	7.4
	1/9/2007	9.5-10	0.21	72	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	6.8
	1/9/2007	15-15.5	0.25	250	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	25
	1/9/2007	19.5-20	<0.1	11	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	7
TR-4	1/9/2007	4.5-5	<0.1	7.1	< 0.005	< 0.005	<0.005	< 0.005	<0.005 to <0.1	12
	1/9/2007	8.5-9	<0.1	1.3	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
	1/9/2007	9.5-10	< 0.1	4.9	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	7.8
	1/9/2007	14.5-15	<0.1	2.4	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	11
	1/9/2007	19.5-20	<0.1	1.3	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	10
TR-5	1/9/2007	4.5-5	<0.1	3,500	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	410
	1/9/2007	9.5-10	6.1	870	< 0.005	<0.005	< 0.005	< 0.005	<0.005 to <0.1	<5
	1/9/2007	14.5-15	250	180	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.1	12
	1/9/2007	19.5-20	0,65	6.8	< 0.005	<0.005	< 0.005	< 0.005	<0.005 to <0.1	12
ESL			400	500	0.38	9.3	32	11		750

Notes:

mg/kg = milligrams per kilogram

TPHg = Total Petroleum Hydrocarbons as Gasoline (EPA Method 8260). TPHd = Total Petroleum Hydrocarbons as Diesel (EPA Method 8015). Fuel Oxygenates = MtBE, DiPE, ETBE, TAME, TBA, 1,2 DCA, EDB, Ethanol

= Below Specified Reporting Limits.

ESL = Environmental Screening Levels, Shallow Soil, Groundwater not a source of drinking water, Commercial/Industrial Land Use (SFBRWQCB 2005) 1,700

= Bold value exceeds environmental screening level.

Footnotes: (1)

Laboratory reported that the analyte detected in samples did not match the laboratory standard.

TABLE 3
SUMMARY OF HISTORICAL SOIL EXCAVATION CONFIRMATION SAMPLING
1600 63rd Street, Emeryville, CA

	T		100	oo 63ra Street,	Emery vine,	CA				·	 -	· · · · · · · · · · · · · · · · · · ·	
								Chemical Cor	acentrations De	etected (mg/kg	g)		
Sample No.	Data Sampled	Depth (below ground surface)	Description	ТРНд	TPHd	ТРН	Benzene	Toluene	Ethyl- benzene	Total Xylenes	PCBs	EPA 8270 Analytes	Other Analyses
Excavation A	Date Sampled	Depth (below ground surface)	Description										
UST-2SA	4/12/1988		Soil sample from west end of excavation	350			0.15				ND		
UST-2SB	4/12/1988		Soil sample from east end of excavation	ND	ND		ND	ND		ND			
UST-3SA	4/12/1988		Soil sample from west end of excavation		170		ND	ND		ND	ND		
UST-3SB	4/12/1988		Soil sample from east end of excavation	ND	ND	na w	ND	ND		ND			
PP-1	5/17/1988	variable	Sides and bottom of excavation A		300	1,600							
PP-2	5/17/1998	variable	Sides and bottom of excavation A		ND	ND							
PP-3	5/17/1998	variable	Sides and bottom of excavation A		200	200							
PP-4	5/17/1998	variable	Sides and bottom of excavation A	~~	91	91						 m m-	
PP-5	5/17/1998	variable	Sides and bottom of excavation A		48	48							
PP-6	5/17/1998	variable	Sides and bottom of excavation A Sides and bottom of excavation A		2,000	2,000			**				
PP-7	5/17/1998	variable	Sides and bottom of excavation A		2,000 ND	ND					 		
PP-8	5/17/1998	variable	Sides and bottom of excavation A		200	200		<u> </u>					
PP-9	5/17/1998	variable			78					**	 		
			Sides and bottom of excavation A	,		78							
PP-10	5/20/1988	variable	Sides and bottom of excavation A	ND	ND 02	aa ta							
PP-11	5/20/1988	variable	Sides and bottom of excavation A	ND	83								
PP-12	5/20/1988	variable	Sides and bottom of excavation A	ND -00	92								
PP-14-15	5/23/1988	variable	Sides and bottom of excavation A	790	ND								
PP-15	5/25/1988	variable	Sides and bottom of excavation A	490	ND							· ••	
Excavation B													
EXNBH-1	5/9/1988	variable	Composite sample around BH-1	ND	ND								
Excavation C													
HT-1	4/7/1988		Soil sample from beneath west end of tank		35						0.078		(2)
HT-2	4/7/1988		Soil sample from beneath east end of tank		26					0.006	0.043		(3)
HT-3	4/7/1988	near surface	Soil sample from east edge of pit			2,600				0.112	ND		(4)
UST-1SA	4/15/1988		Soil sample from west end of pit								ND		(5)
EXNUST-1	5/9/1988	variable	Composite near UST									(1)	
PNA-S	5/23/1988		Soil from Burn-Pit area										
UST-4			and the second s										
UST-4SA	4/12/1988		Soil sample from north end of excavation	ND	ND								
UST-4SB	4/12/1988		Soil sample from south end of excavation	ND	ND								
ESL (mg/kg)				400	500	400	0.38	9.3	32	11	0.74		<u> </u>

Notes:			
mg/kg	= milligrams per kilogram	(1)	1.2 ppm Pyrene
TPHd	= Total Petroleum Hydrocarbons as Diesel	(2)	21 ppb C6 Hydrocarbons
TPHg	= Total Petroleum Hydrocarbons as Gasoline	(3)	500 ppb Hexane
PCBs	= Polychlorinated biphenyls	(4)	2100 ppb Hexane
<	= Below Specified Reporting Limits.	(5)	170 ppb C6 Hydrocarbons
	= Not Analyzed.		
ND	= Not Detected.		
ESL	= Environmental Screening Level (Shallow Soils-SFBRWQCB 2005)		

= **Bold** terms exceed the Environmental Screening Levels

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Treadwell&Rollo

TABLE 4 SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA

1600 63rd Street, Emeryville, CA

Well Number	Top-of-Casing Elevation (feet)	Depth of Well Screen Interval (feet)	Date Measured		Water Elevation (feet)	Change in Elevation (feet)
MW-1 (1)	15.12	13-18	8/3/1989	5.99	9.13	
			9/21/1989	5.81	9.31	0.18
·			10/20/1989	6.24	8.88	-0.43
			12/20/1989	6.09	9.03	0.15
			3/20/1990	5.87	9.25	0.22
ı			7/20/1990	5.75	9.37	0.12
			11/12/1990	6.04	9.08	-0.29
			2/7/1991	6.65	8.47	-0.61
			5/8/1991	6.17	8.95	0.48
			5/14/1999	5.78	9.34	0.39
			11/28/2006	5.41	9.71	0.37
			1/15/2007	5.68	9.44	-0.27
MW-2	16.53	12.5-20.5	8/3/1989	6.66	9.87	
			9/21/1989	6.32	10.21	0.34
			10/20/1989	6.78	9.75	-0.46
			12/20/1989	7.32	9.21	-0.54
			3/20/1990	6.76	9.77	0.56
			5/11/1990	6.66*		
			7/20/1990	6.74*		
			11/12/1990	6.75*		
			11/21/1990	7.00*		
			2/7/1991	6.88*		
			5/8/1991	6.92*		
			5/14/1999	NM*		
			11/28/2006	6.85*		**
			1/15/2007	6.80*		
			1/30/2007	6.40*		
			2/13/2007	5.83*		
			2/27/2007	5.89*		
MW-3 ⁽¹⁾	15.90	20-25	8/3/1989	4.06	11.84	40004
			9/21/1989	3.77	12.13	0.29
	•		10/20/1989	4.49	11.41	-0.72
			12/20/1989	4.32	11.58	0.17
			3/20/1990	3.78	12.12	0.54
			7/20/1990	3.73	12.17	0.05
			11/12/1990	3.89	12.01	-0.16
•			2/7/1991	3.92	11.98	-0.03
			5/8/1991	3.96	11.94	-0.04
			5/14/1999	5.54	10.36	-1.58
			11/28/2006	4.01	11.89	1.53
			1/15/2007	4.28	11.62	-0.27

Treadwell&Rollo

TABLE 4 SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA

1600 63rd Street, Emeryville, CA

Well Number	Top-of-Casing Elevation (feet)	Depth of Well Screen Interval (feet)	Date Measured	Depth to Water (feet)	 	Change in Elevation (feet)
MW-4 ⁽¹⁾	14.04	22-29	8/3/1989	7.10	6.94	
			9/21/1989	6.90	7.14	0.20
			10/20/1989	6.95	7.09	-0.05
			12/20/1989	7.24	6.80	-0.29
			3/20/1990	6.94	7.10	0.30
			7/20/1990	6.94	7.10	0.00
			11/12/1990	7.13	6.91	-0.19
			2/7/1991	6.94	7.10	0.19
			5/8/1991	7.15	6.89	-0.21
			5/14/1999	5.54	8.50	1.61
			11/28/2006	6.06	7.98	-0.52
			1/15/2007	6.08	7.96	-0.02
MW-5 (1)	15.21	24-32	8/3/1989	4.35	10.86	
			9/21/1989	4.38	10.83	-0.03
			10/20/1989	4.37	10.84	0.01
			12/20/1989	4.48	10.73	-0.11
			3/20/1990	4.07	11.14	0.41
			7/20/1990	4.12	11.09	-0.05
			11/12/1990	4.36	10.85	-0.24
			2/7/1991	4.44	10.77	-0.08
			5/8/1991	3.90	11.31	0.54
			5/14/1999	4.09	11.12	-0.19
			11/28/2006	5.67	9.54	-1.58
			1/15/2007	4.79	10.42	0.88
TR-1	17.50	5-20	1/15/2007	6.21	11.29	0.00
	17.20	3 20	1/30/2007	6.14	11.36	-0.07
TR-2	16.50	5-20	1/15/2007	8.11*		0107
	10.00		1/30/2007	7.19	7.19	
			2/13/2007	6.57*		
			2/27/2007	6.59*		
TR-3	18.60	5-20	1/15/2007	4.85	13.75	
			1/30/2007	4.68	13.92	-0.17
TR-4	16.38	5-20	1/15/2007	8.71	7.67	
			1/30/2007	6.17	10.21	-2.54
TR-5	16.27	5-20	1/15/2007	7.34*		
			1/30/2007	6.87	9.40	
			2/13/2007	6.22	10.05	-0.65
			2/27/2007	6.19*		

Notes:

Survey conducted by CSS Environmental Services (Novato, CA) on 15 January 2007.

Water elevation referenced to mean sea level.

Footnotes:

1) Monitoring wells MW1, MW3, MW4, and MW5 were abandoned on 15 January 2007.

^{* -} Petroleum product measured in well (0.01- to 3-feet thick)



TABLE 5

FREE PHASE PRODUCT MEASUREMENTS

FROM WELLS MW-2, TR-2, and TR-5 (Since January 2007)

1600 63rd Street, Emeryville, CA

				Depth to Free				
		Depth of Well		Phase	Depth to	Thickness of Free		
Well	Top-of-Casing	Screen Interval	Date	Product	Water	Phase Product	Unadjusted Water	Adjusted Water
Number	Elevation (feet)	(feet)	Measured	(feet)	(feet)	(feet)	Level (feet)	Level (feet)
MW-2	16.53	12.5-20.5	1/15/2007	6.72	6.80	0.08	9.73	9.79
			1/30/2007	6.33	6.40	0.07	10.13	10.19
			2/13/2007	5.81	5.83	0.02	10.70	10.72
			2/27/2007	5.78	5.89	0.11	10.64	10.73
TR-2	16.50	5-20	1/15/2007	7.42	8.11	0.69	8.39	8.94
			1/30/2007	7.19	7.19	<0.01	9.31	9.31
			2/13/2007	6.56	6.57	0.01	9.93	9.94
			2/27/2007	6.58	6.59	0.01	9.91	9.92
TR-5	16.27	5-20	1/15/2007	7.14	7.34	0.20	8.93	9.09
			1/30/2007	6.87	6.87	<0.01	9.40	9.40
			2/13/2007	6.22	6.22	<0.01	10.05	10.05
			2/27/2007	6.19	6.19	<0.01	10.08	10.08

General Notes

Measurements collected from top of casing, north side.

Adjusted water level = unadjusted water level + (Thickness of Free Phase Product \times 0.8).

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER SAMPLING RESULTS
1600 63rd Street, Emeryville, CA

						Chemica	al Concentrati	ons Detected ((mg/L)						
Sample No.	Date Sampled	Notes	TPHd	ТРНд	Benzene	Toluene	Ethyl- benzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	EPA 8010 Analytes	MTBE	Motor Oil
Engineering	g Science									, ,			12	1/11 023	THOUSE OIL
ES/MW-1	11/12/1987	(1)			1.7	2.6		4.2				<u>-</u>			
ES/MW-2	11/12/1987	(2)						~~		***					
ES/MW-3	1/13/1988	(3)			***				< 0.0003			0.002 (12)			
HLA															
MW-1	6/18/1989		< 0.5	< 0.5	< 0.001	< 0.001	< 0.001	< 0.001			ND	< 0.01			
	9/21/1989		<0.5	< 0.5	< 0.005	< 0.005	< 0.005	< 0.005	0.0005	(4)	ND	< 0.01			
	12/20/1989		< 0.5	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	ND	< 0.01			
	3/20/1990	,	< 0.5	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	ND	< 0.01		and the	
	7/20/1990		0.17	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005		ND					
	11/12/1990		0.16	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					
	2/7/1991		0.2	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND		est had			
	5/8/1991		0.7	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					
MW-2	6/25/1989		<0.5	0.3	< 0.005	< 0.005	< 0.005	<0.005	< 0.0005		(7)	<0.01			
	9/21/1989		1	< 0.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	(5)	(8)	<0.01		<u></u>	
	12/20/1989		< 0.5	0.53	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	(9)	<0.01			
	2/20/1990		49	0.42	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	(6)	(10)	0.044 (13)			
	5/11/1990		8.4	1.2	< 0.005	< 0.005	< 0.005	< 0.005				<0.01			
	5/11/1990		<2.5	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01				<0.02			
	7/20/1990		27	3.9	< 0.005	< 0.005	< 0.005	0.011		ND					
	7/20/1990		30	2.3	< 0.005	< 0.0025	< 0.0025	0.0033		ND					
	11/12/1990		61	380	< 0.005	< 0.0005	< 0.0005	0.0005	< 0.0005	ND					
	11/12/1990		35	7	< 0.005	0.0009	0.0001	0.0079	< 0.0005	ND					Ma san
	2/7/1991		41	11	< 0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND					
	2/7/1991		27	13	< 0.005	< 0.0005	< 0.0005	0.043	< 0.0005	ND					
	5/8/1991		43	88	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND		98 May			
	5/8/1991		26	150	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					

3/21/2007

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER SAMPLING RESULTS
1600 63rd Street, Emeryville, CA

						Chemica	al Concentratio	ons Detected (mg/L)						
Sample No.	Date Sampled	Notes	TPHd	ТРНg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	EPA 8010 Analytes	MTBE	Motor Oil
MW-3	7/18/1989		< 0.5	< 0.5	< 0.001	< 0.001	< 0.001	< 0.001			ND	< 0.01			
	9/21/1989		< 0.5	< 0.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	ND	< 0.01			
	12/20/1989		< 0.5	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	ND	< 0.01			
	3/20/1990		< 0.5	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	ND	< 0.01			
	7/20/1990		< 0.05	0.11	< 0.005	< 0.0005	< 0.0005	< 0.005		ND					
	11/12/1990		< 0.05	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					
	2/7/1991		0.12	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					
	5/8/1991		< 0.05	<0.05	< 0.005	<0.0005	< 0.0005	< 0.005	< 0.0005	ND					
MW-4	6/25/1989		<0.5	< 0.05	< 0.005	<0.005	< 0.005	< 0.005	< 0.0005		ND	<0.01		- WHO.	
	9/21/1989		< 0.5	< 0.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	ND	<0.01			
	12/20/1989		< 0.5	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	ND	<0.01			
	12/20/1989				< 0.005	< 0.005	< 0.005	< 0.005	-0.0003			<0.01			
	3/20/1990		< 0.5	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	ND	<0.01			
	7/20/1990		< 0.05	0.12	< 0.005	< 0.0005	< 0.0005	< 0.005		ND					
	11/12/1990		< 0.05	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND	=-4				
	2/7/1991		< 0.05	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					
	5/8/1991		< 0.05	< 0.05	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					
MW-5	6/30/1989		<0.5	<0.05	< 0.005	< 0.005	<0.005	<0.005			NID	-0.01			
	9/21/1989		<0.5	<0.5	< 0.005	<0.005	< 0.005	<0.005	0.0009	(11)	ND	<0.01			
	12/20/1989		<0.5	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	<0.0009	(11) ND	ND	<0.01			
	3/20/1990		<0.5	< 0.05	< 0.005	<0.005	<0.005	< 0.005	<0.0005	ND ND	ND	<0.01			
	7/20/1990		< 0.05	< 0.05	< 0.005	<0.0005	< 0.0005	<0.005		ND ND	ND	< 0.01			
	11/12/1990		< 0.05	< 0.05	< 0.005	<0.0005	<0.0005	<0.005	<0.0005	ND ND					
	2/7/1991		< 0.05	< 0.05	< 0.005	<0.0005	<0.0005	<0.005	< 0.0005	ND ND					
	5/8/1991		< 0.05	< 0.05	< 0.005	<0.0005	<0.0005	<0.005	<0.0005	ND ND					
									0.0000	1,10					

TABLE 6 SUMMARY OF HISTORICAL GROUNDWATER SAMPLING RESULTS 1600 63rd Street, Emeryville, CA

						Chemica	al Concentrati	ons Detected (mg/L)						
Sample No.	Date Sampled	Notes	TPHd	ТРНд	Benzene	Toluene	Ethyl- benzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	EPA 8010 Analytes	MTBE	Motor Oil
Certified															
MW-2	11/19/1992		22	0.59	< 0.0003	0.0014	< 0.0003	0.0015							
	7/13/1994		6	<2	< 0.001	< 0.001	< 0.001	< 0.001							
SOMA Cor	 poration- Monit	toring Wells													
MW-1	5/14/1999	S	0.2	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND	ND		ND	< 0.005	<0.5
MW-2	5/14/1999	(14)	550	210	<2.5	<2.5	<2.5	4.9	<0.5		1112		IND	<u></u>	<3,500
MW-3	5/14/1999		0.15	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.00052	ND	ND		ND	<0.005	<0.5
MW-4	5/14/1999		< 0.051	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND	ND		ND	< 0.005	<0.51
MW-5	5/14/1999		< 0.05	< 0.05	< 0.0005	<0.0005	< 0.0005	< 0.0005	< 0.00052	ND	ND		ND	< 0.005	<0.5
SOMA Cor	poration- Groui	ndwater Grab	Samples												
HP-1-W	8/5/1999		0.087	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005						<0.005	
HP-2-W	8/5/1999		210	3.2	< 0.001	< 0.001	< 0.001	< 0.001	***					<0.005	
HP-3-W	8/5/1999		150	5.4	< 0.005	< 0.005	< 0.005	< 0.005						<0.01	
HP-4-W	8/5/1999		2	0.13	< 0.0005	0.001	0.00082	0.002						< 0.005	
HP-5-W	8/5/1999	(14)	5,800	3	< 0.005	< 0.005	< 0.005	< 0.005	ev e					< 0.003	~ ~
								0.000						~0.03	

TABLE 6 SUMMARY OF HISTORICAL GROUNDWATER SAMPLING RESULTS 1600 63rd Street, Emeryville, CA

						Chemica	l Concentratio	ons Detected (mg/L)						
Sample No.	Date Sampled	Notes	TPHd	ТРНg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	EPA 8010 Analytes	МТВЕ	Motor Oil
CPT Groun	idwater Grab	Samples									11111,500	1 mary tes	2 Thaiy tes	MIIDE	Motor On
CPT-1-1 W	10/21/1999	Depth= 78' - 103'	< 0.05	< 0.05	<0.0005	<0.0005	<0.0005	<0.0005	< 0.005	ND	ND	ND			
CPT-1-2W	10/21/1999	Depth= 135' - 160'	0.1 (15)	< 0.05	<0.0005	<0.0005	< 0.0005	< 0.0005	< 0.013	ND	ND	ND			
ESL			0.64	0.5	0.046	0.13	0.29	0.1	0.014					1.8	

NOTES:

mg/L	= milligrams per liter
TPHd	= Total Petroleum Hydrocarbons as Diesel
TPHg	= Total Petroleum Hydrocarbons as Gasoline
PCBs	= Polychlorinated biphenyls
<	= Below Specified Reporting Limits.
	= Not Analyzed.
ND	= Not Detected.
ESL	= Environmental Screening Level (Shallow GW-SFBRWQCB 2005)
TOG	= Total Oil and Grease
MtBE	-Methyl tert-Butyl Ether
1.7	-Bold values exceed the Environmental Screening Level

- (1) 0.031 ppm lead and 21 ppm total fuel hydrocarbons detected.
- (2) 200 ppm TOG detected.
- (3) 2.7 ppm total fuel hydrocarbons detected.
- (4) 0.0001 ppm endrin aldehyde detected.
- (5) 0.00016 ppm heptachlor and 0.00015 ppm 4,4'-DDD detected.
- (6) 0.00035 ppm Gamma-BHC detected.
- (7) Trace fluorene detected.
- (8) 0.006 ppm fluorene, 0.005 ppm bis(2-ethyl-hexyl) phthalate and 0.0061 ppm 2-methyl-naphthalene detected.
- (9) 0.012 ppm 2-methyl-naphthalene detected.
- (10) 0.0061 ppm fluorene, 0.018 ppm 2-methyl-naphthalene and 0.0055 phenanthrene detected.
- (11) 0.00015 ppm endrin aldehyde detected.
- (12) 0.002 ppm unknown EPA 8240 analyte detected.
- (13) 0.044 ppm acetone detected.
- Product samples collected from well MW-2 and boring HP-5; Chromalab results indicate hydrocarbon reported does not match diesel standard. Friedman & Bruya results indicate "patterns displayed by these peaks are indicative of degraded Bunker C or crude oil"
- (15) Chromalab analytical results state "Compounds reported are in the diesel range. They do not exhibit pattern characteristic of hydrocarbon."

TABLE 7
Water Quality Measurements
1600 63rd Street, Emeryville, CA

Well Number	Date	Purge Method	Purge Duration (minutes)	Volume Purged (gallons)	Purged Dry? (yes/no)	Dissolved Oxygen (mg/L)	pН	Specific Conductance (µS/cm)	Temperature (C°)	ORP (mV)	Turbidity (NTU)
MW-2	1/15/2007	Bailer	NA	NM	No	NM	7.21	1,060	NM	120	NM
TR-1	1/15/2007	SP	30	30	No	NM	6.62	830	NM	140	NM
TR-2	1/15/2007	PP	NA	NM	No	NM	7.00	2,300	NM	130	NM
TR-3	1/15/2007	SP	35	20	Yes	NM	7.75	1,330	21.4	NM	NM
TR-4	1/15/2007	SP	25	25	No	NM	6.76	1,780	NM	130	NM
TR-5	1/15/2007	PP	NA	NM	No	NM	7.33	2,000	NM	130	NM

Footnotes

Meter malfunction occurred during January 2007 monitoring event.

Extra sample was collected and water quality parameters were measured at a later time.

General Notes

ORP = Oxidation Reduction Potential

mV = millivolts

mg/L = milligrams per Liter

 μ S/cm = microseimens per centimeter

NTU = Nephelometric Turbidity Units



TABLE 8 GROUNDWATER ANALYTICAL RESULTS FROM TEMPORARILY CASED BORINGS 1600 63rd Street, Emeryville, CA

		Chemical Concentrations Detected (mg/L)									
Sample No.	Date Sampled	TPHd ⁽¹⁾	TPHg ⁽¹⁾	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Fuel Oxygenates (including Ethanol)	Total Lead		
T&R											
SB-1	1/10/2007	73	140	< 0.25	< 0.25	< 0.25	< 0.25	<0.25 to <50	<0.1		
SB-2	1/10/2007	33	1.6	<0.001	<0.001	<0.001	<0.001	Di-isopropyl Ether = 0.0074 1,2 Dichloroethane = 0.0011 Others <0.001 to <0.2	<0.1		
SB-3	1/10/2007	49	7.8	<0.005	<0.005	<0.005	0.013	Di-isopropyl Ether = 0.0063 Others < 0.005 to < 0.1	<0.1		
SB-4	1/10/2007	150	4.8	<0.001	<0.001	<0.001	<0.001	Di-isopropyl Ether = 0.0026 Others < 0.001 to < 0.2	<0.1		
	·								*		
ESL		0.64	0.5	0.046	0.13	0.29	0.1	1,2 Dichloroethane = 0.2 Di-isopropyl Ether = NA	2.5		

Notes:

mg/L = milligrams per liter

(1) Laboratory reported that the analyte detected in samples did not match the laboratory standard.

TPHd = Total Petroleum Hydrocarbons as Diesel

TPHg = Total Petroleum Hydrocarbons as Gasoline

= Below Specified Reporting Limits.

-- = Not Analyzed.

ESL = Environmental Screening Level, Shallow soils, groundwater is not a source of drinking water, commercial/industrial land use (RWQCB 2005)

73 = Bold values exceed the environmental screening level.

TABLE 9 GROUNDWATER SAMPLING RESULTS FROM MONITORING WELLS 1600 63rd Street, Emeryville, CA

····		r					1000	63rd Street,	Emici y vine,	CA					
	and the second s								Chemic	eal Concentratio	ons Detected (mg/	L)			
Sample No.	Date Sampled	Notes	ТРНа	ТРНд	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	Fuel Oxygenates (including Ethanol)	Total Lead	Motor Oil
HLA			"												
MW-2	6/25/1989		< 0.5	0.3	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005		(2)	< 0.01			
	9/21/1989		1	< 0.5	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	(3)	(4)	< 0.01			
	12/20/1989		< 0.5	0.53	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	ND	(5)	< 0.01			
	2/20/1990		49	0.42	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0005	(6)	(7)	0.044 (8)			
	5/11/1990		8.4	1.2	< 0.005	< 0.005	< 0.005	< 0.005				< 0.01			
	5/11/1990		<2.5	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01				< 0.02	==		
	7/20/1990	,	27	3.9	< 0.005	< 0.005	< 0.005	0.011		ND					
	7/20/1990		30	2.3	< 0.005	< 0.0025	< 0.0025	0.0033		ND					
	11/12/1990		61	380	< 0.005	< 0.0005	< 0.0005	0.0005	< 0.0005	ND					
	11/12/1990		35	7	< 0.005	0.0009	0.0001	0.0079	< 0.0005	ND			~~		
	2/7/1991		41	11	< 0.005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	ND					
	2/7/1991		27	13	< 0.005	< 0.0005	< 0.0005	0.043	< 0.0005	ND					
	5/8/1991		43	88	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					
	5/8/1991	·	26	150	< 0.005	< 0.0005	< 0.0005	< 0.005	< 0.0005	ND					
Certified									***************************************						
MW-2	11/19/1992		22	0.59	< 0.0003	0.0014	< 0.0003	0.0015							
	7/13/1994		6	<2	< 0.001	< 0.001	< 0.001	< 0.001							
SOMA Corporati	on-Monitoring Wells														
MW-2	5/14/1999	(1)	550	210	<2.5	<2.5	<2.5	4.9	< 0.5						<3,500
Treadwell & Roll	o, Inc.														
MW-2	1/10/2007	(9)	10	0.6	<0.0005	<0.0005	<0.0005	0.00053					MtBE = 0.00095 Di-isopropyl ether = 0.00097 Others <0.0005 to <0.1	<0.1	
TR-I	1/15/2007	(9)	0.14	<0.05	<0.0005	<0.0005	< 0.0005	<0.0005					MtBE = 0.0074 Other < 0.0005 to < 0.1	<0.1	
TR-2	1/10/2007	(9)	480	3.4	< 0.005	< 0.005	< 0.005	< 0.005					<0.005 to <1	<0.1	
TR-3	1/10/2007	(9)	0.098	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005					Other <0.0005 to <0.1	<0.1	
TR-4	1/10/2007	(9)	0.43	<0.05	<0.0005	<0.0005	<0.0005	<0.0005					MtBE = 0.0022 Di-isopropyl ether = 0.001 Other <0.0005 to <0.1	<0.1	
TR-5	1/10/2007	(9)	31	12	< 0.005	< 0.005	< 0.005	< 0.005					<0.005 to <1	<0.1	
ESL			0.64	0.5	0.046	0.13	0.29	0.1	0.014				MtBE = 1.8		

General Notes:

= milligrams per liter mg/L

TPHd = Total Petroleum Hydrocarbons as Diesel

TPHg = Total Petroleum Hydrocarbons as Gasoline

PCBs = Polychlorinated biphenyls MtBE

= Methyl tert-Butyl Ether

= Below Specified Reporting Limits.

= Not Analyzed.

ESL = Environmental Screening Level, Shallow Soil, Groundwater not a source of drinking water, Commercial/Industrial Land Use (RWQCB 2005)

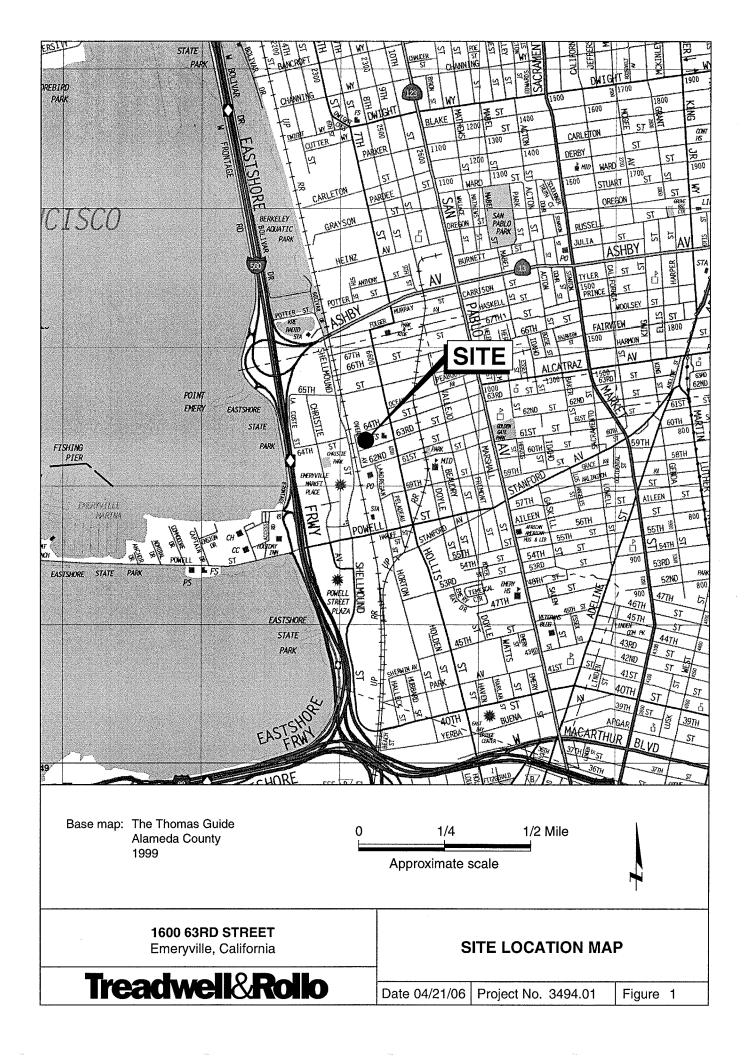
= **Bold** values exceed the environmental screening levels.

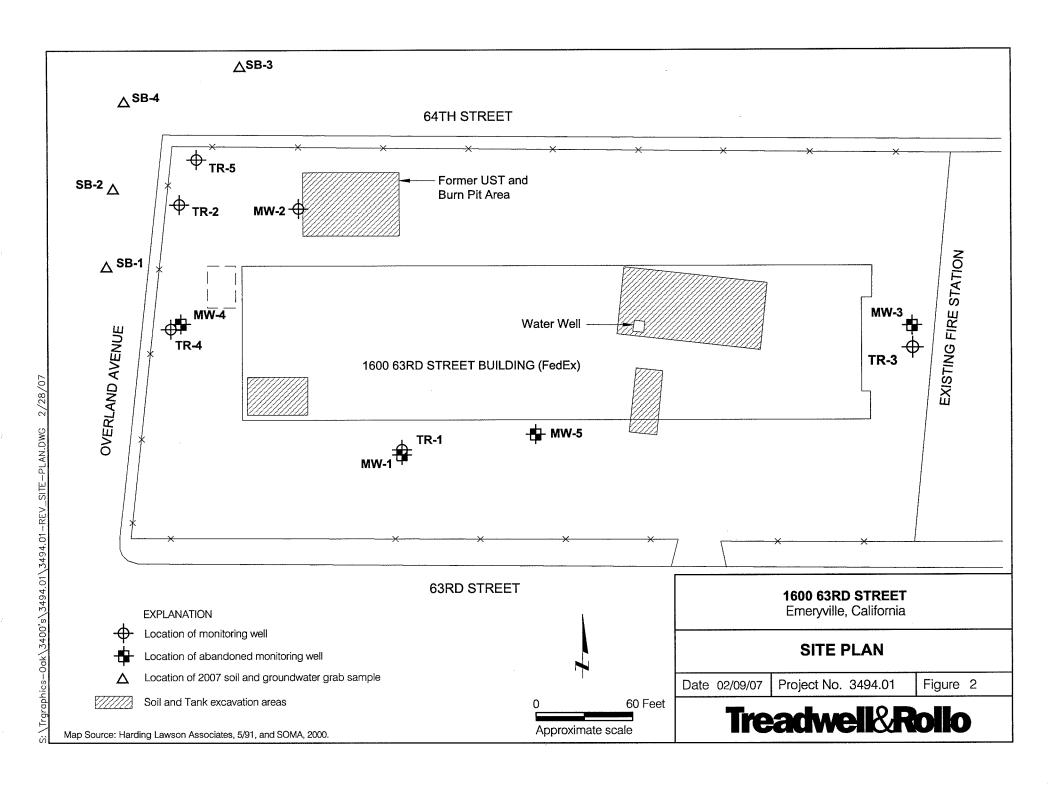
Footnotes:

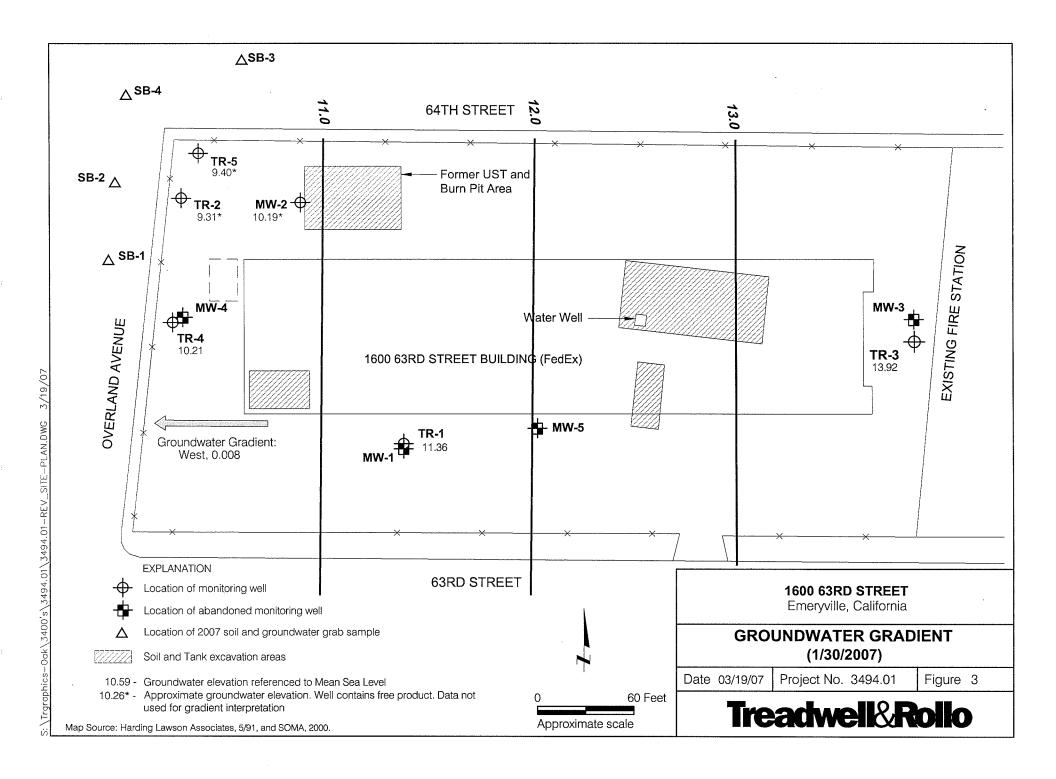
- Product sample collected; Chromalab (STL San Francisco) results indicate hydrocarbon reported does not match diesel standard. Friedman & Bruya results indicate "patterns displayed by these peaks are indicative of Bunker C or crude oil" (1)
- Trace flourene detected (2)
- (3) 0.00016 ppm heptachlor and 0.00015 ppm 4,4'-DDD detected.
- (4) 0.006 ppm flourene, 0.005 ppm bis (2-ethyl-hexyl) phthalate, and 0.0061 ppm 2-methyl-napthalene detected.
- (5) 0.012 ppm 2-methyl-napthalene detected.
- (6) 0.00035 ppm Gamma-BHC detected.
- (7) 0.0061 ppm flourene, 0.018 ppm 2-methyl-napthalene, and 0,0055 ppm phenanthrene detected.
- (8) 0.044 ppm acetone detected.
- (9) Laboratory reported that the TPH compounds detected in samples did not match their respective laboratory standard.

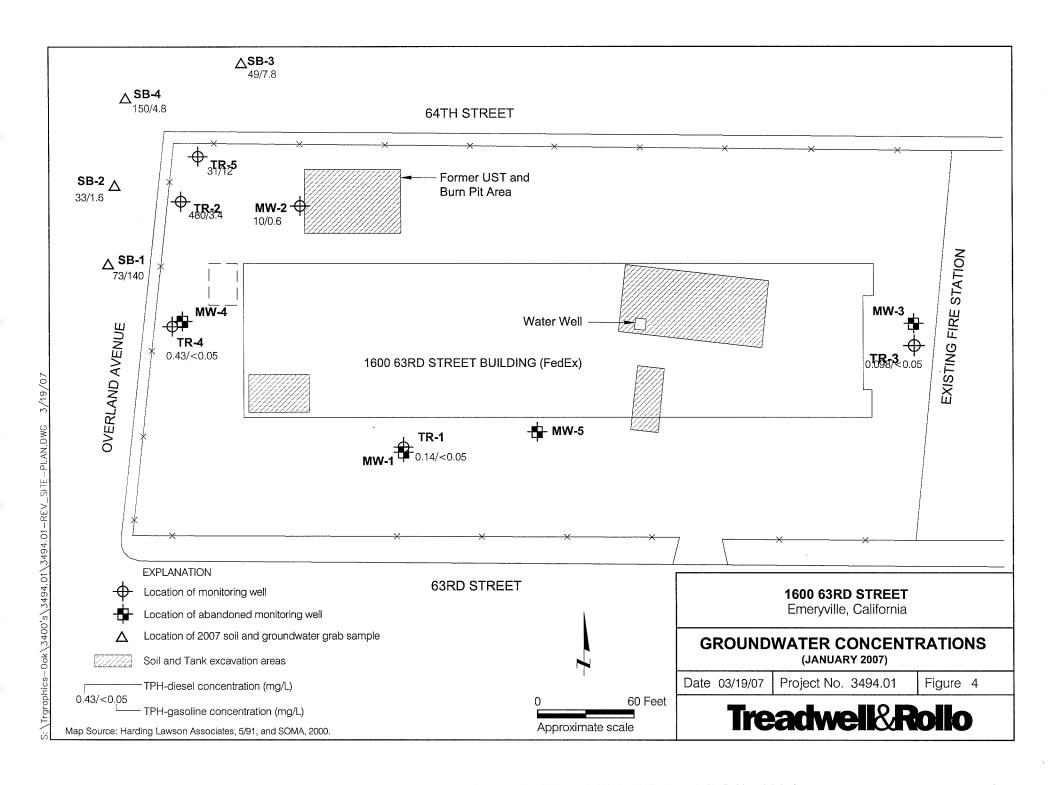


FIGURES











APPENDIX A Permits



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/29/2006 By jamesy

Application Id:

1165881813974

Site Location:

1600 63rd St, Emeryville, CA 94901

Project Start Date: Extension Start Date:

01/08/2007 01/15/2007

Extension Count:

Applicant:

Treadwell & Rollo Inc. - M Hall

Property Owner:

Wareham Pacific Group

Client:

Contact:

501 14th St, 3rd flr., Oakland, CA 94612

1120 Nye St. #400, San Rafael, CA 94901

** same as Property Owner *

Matt Hall

Permit Numbers: W2006-1080 to W2006-1085

Permits Valid from 01/15/2007 to 01/19/2007

City of Project Site: Emeryville

Completion Date: 01/12/2007 Extension End Date: 01/19/2007

Extended By: jamesy

Phone: 510-874-4500

Phone: 510-594-5640

Phone: --

Cell: 510-289-9310

Total Due:

\$1700.00

Receipt Number: WR2006-0577 Payer Name : Treadwell & Rollo Inc. **Total Amount Paid:** Paid By: CHECK

\$1700.00

PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 5 Wells

Driller: Precision Sampling - Lic #: 636387 - Method: DP

Work Total: \$1500.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2006- 1080	12/29/2006	04/08/2007	MW-1 (TR- 1)	10.00 in.	2.00 in.	4.00 ft	20.00 ft
W2006- 1081	12/29/2006	04/08/2007	MW-3 (TR- 2)	10.00 in.	2.00 in.	4.00 ft	20.00 ft
W2006- 1082	12/29/2006	04/08/2007	MW-4 (TR- 3)	10.00 in.	2.00 in.	4.00 ft	20.00 ft
W2006- 1083	12/29/2006	04/08/2007	TR-4	10.00 in.	2.00 in.	4.00 ft	20.00 ft
W2006-	12/29/2006	04/08/2007	TR-5	10.00 in.	2.00 in.	4.00 ft	20.00 ft

Specific Work Permit Conditions

- 1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
- 3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required

permits and requirements have been approved or obtained.

- 4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
- 5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
- 7. Minimum surface seal thickness is two inches of cement grout placed by tremie
- 8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
- 9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

Work Total: \$200.00

Borehole(s) for Investigation-Geotechnical Study/CPT's - 4 Boreholes

Driller: Precision Sampling - Lic #: 636387 - Method: DP

Specifications

Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2006-	12/29/2006	04/08/2007	4	2.00 in.	20.00 ft
1085					

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters

generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

- 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 01/22/2007 By jamesy

Permit Numbers: W2007-0076

Permits Valid from 01/15/2007 to 01/19/2007

City of Project Site: Emeryville

Completion Date: 01/19/2007

Phone: 510-289-9310

Phone: 510-594-5640

Phone: --

Cell: 510-289-9310

Treadwell & Rollo Inc - Matt Hall

1600 63rd St, Emeryville, CA 94901

501 14th St, 3rd flr., Oakland, CA 94612

Wareham Pacific Group

1168644721447

01/15/2007

1120 Nye St. #400, San Rafael, CA 94901

** same as Property Owner **

Client: Contact:

Applicant:

Application Id:

Site Location:

Project Start Date:

Property Owner:

Matt Hall

Total Due:

\$300.00

Receipt Number: WR2007-0032 Payer Name: Treadwell & Rollo, Inc Paid By: CHECK

Total Amount Paid:

PAID IN FULL

\$300.00

Works Requesting Permits:

Well Destruction-Monitoring - 1 Wells

Driller: Precision Sampling - Lic #: 636387 - Method: press

Work Total: \$300.00

Specifications

Issued Date Expire Date Owner Well Hole Diam. Casing Seal Depth Max. Depth State Well # Orig. DWR# Permit # Permit # Diam.

20.00 ft 5.00 ft W2007-01/22/2007 04/15/2007 MW-5 10.00 in. 4.00 in.

0076

Specific Work Permit Conditions

- 1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 2. Sound the well to measure depth and to ensure no obstructions exist.

Excavate and remove existing casing 3 to 5 foot below ground surface (bgs), including vent cap and well or vault cover.

Grout neat cement with a tremie to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

- 4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
- 5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
- 6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 7. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

City of Emeryville • Department of Public Works Encroachment Permit

	Permit No. Date
APPLICANT TREADWELL & ROLLO, INC.	Permit Admin. Fee
CONTACT PERSON MATTHEW HALL	Permit Inspection Deposit (2 hr. min.)
ADDRESS SOL WITH COME TREE DAY AND CA	Cost Recovery Estimate
ADDRESS 501 14TH STREET, 3PD FL. OAKLAND CA PHONE 510/874 4500 X 551 94612	Required Security Deposit:
1116HE 3/6/6/4-100 × 536	□ \$1,000 cash
FAX 510/874-4507	□ \$10,000 Bond, Bond #
	□100% Perf. Bond,
OWNER/DEVELOPER OF FACILITIES	Bond ValueBond #
Wareham Property Group	Total Payment Required
ADDRESS 1120 Nye Street, Suite 400 ch guga	Received: Date
PHONE 40 510 / 594 - 5640	Receipt #
FAX	Failure to obtain approval of a Final Inspection of the
	work covered by this Encroachment Permit within one
CONTRACTOR DOING WORK	(1) year of the estimated completion date shall result in
PRECISION SAMPLING, INC	the loss of the security deposit which shall be retained by the City of Emeryville.
CONTACT PERSON, Mike Cramer	by the City of Emeryvine.
ADDRESS 1001 TOTAL CLAMER	
ADDRESS 1081 ESSEX Avenue, Richmond, CA 9480	1 PHONE 510/237-4575 FAX 510/237-4574
LICENSE NO. 636387 CLASS C-57	
□Yes □No CURRENT CITY BUSINESS LICENSE	ON FILE
□Yes □No PROVIDE PROOF OF INSURANCE	
EST. START DATEEST. COMPLETION DA	ATEEST. COST IN CITY R/W
	
LOCATION OF WORK INTERSECTION OF 64TH OF	STREET AND OVERLAND AVENUE
CHECK ALL TIME AFFLT	
Traffic Control Survey Sidewalk Detour Dumpster Tem	porary No Parking
☐ Private Facilities on Public Right of Way ☐ Construction in Sid.	ewall of Deivoyan Approach -Out a company
Mamp myrater betwice more perfice melectric service urrout	Irain Cilitity Maintenana mo
Obstruction Caccess Robu Elitionitoring Well in Newer Lateral r	Storm Drain of Comma - Black Day
FULLY DESCRIBE PROPOSED WORK WITHIN CITY	Y RIGHT-OF-WAY (additional space on reverse if
needed): Attach 3 complete sets of plans 8 1/2 X 11, if app	licable.
hereby agree to protect and indemnify the City of Emeryville	and hold it harmless in every way from all claim or suits
of injury of damage to persons of property as set forth in the St	andard Provisions I person makes to the
Il materials to be used are on hand; to perform all work in acco	andard Provisions. I agree not to begin construction until
Il materials to be used are on hand; to perform all work in according to Encroachment Permit, and all applicable Special C	andard Provisions. I agree not to begin construction until rdance with the plans submitted (if any), the Standard Conditions of Approval and the Condition
Il materials to be used are on hand; to perform all work in according to Encroachment Permit, and all applicable Special Congineering costs in addition to those paid at the time of issuance	andard Provisions. I agree not to begin construction until rdance with the plans submitted (if any), the Standard Conditions of Approval, and to pay all inspection and a of this permit. I further example to the payment of the permit of the
Il materials to be used are on hand; to perform all work in according rovisions to Encroachment Permit, and all applicable Special Congineering costs in addition to those paid at the time of issuance satisfaction of the City Engineer and if for any reason the City	andard Provisions. I agree not to begin construction until rdance with the plans submitted (if any), the Standard Conditions of Approval, and to pay all inspection and a of this permit. I further example to the payment of the permit of the
Il materials to be used are on hand; to perform all work in according rovisions to Encroachment Permit, and all applicable Special Congineering costs in addition to those paid at the time of issuance and if for any reason the City Engineer and if for any reason the City ay all costs for such work.	andard Provisions. I agree not to begin construction until rdance with the plans submitted (if any), the Standard Conditions of Approval, and to pay all inspection and e of this permit. I further agree to complete the work to ty of Emeryville is required to complete this work, I will
Il materials to be used are on hand; to perform all work in according rovisions to Encroachment Permit, and all applicable Special Congineering costs in addition to those paid at the time of issuance in esatisfaction of the City Engineer and if for any reason the City and all costs for such work.	andard Provisions. I agree not to begin construction until rdance with the plans submitted (if any), the Standard Conditions of Approval, and to pay all inspection and e of this permit. I further agree to complete the work to ty of Emeryville is required to complete this work, I will

FOR CITY USE ONLY	oTemporary Permit #	days	oLong Term Permit
Standard Provisions to End	e attached and incorporated into the croachment Permit	iditions of Approx	72
□Other			
Remarks			
☐ AS-BUILT PLANS REQU ☐ PLEASE CALL FOR INST ☐ PLEASE NOTIFY POLICE This permit is void unless the	ON SCHEDULE 5 DAYS PRIOR IRED PECTION AT 510-596-4333 (510-596-3700) AND FIRE (510 work is completed before work than is TITLE	0-596-3750) 24 He , 20_ specifically ment	OURS IN ADVANCE.

TREADWELL & ROLLO, INC.

ENVIRONMENTAL AND GEOTECHNICAL CONSULTANTS
555 MONTGOMERY ST., SUITE 1300 PH. 415-955-9040
SAN FRANCISCO, CA 94111

GOLDEN GATE BANK SAN FRANCISCO, CA 94104 11-3615-1210

December 4, 2006

PAY

One Thousand One Hundred Fifty and 00/100 Dollars

AMOUNT

\$1,150.00

TO

City of Emeryville Department of Public Works 1333 Park Avenue Emeryville CA 94608

13011150 AUTHORIZED SIGNATURE

#O62702# #121141534#

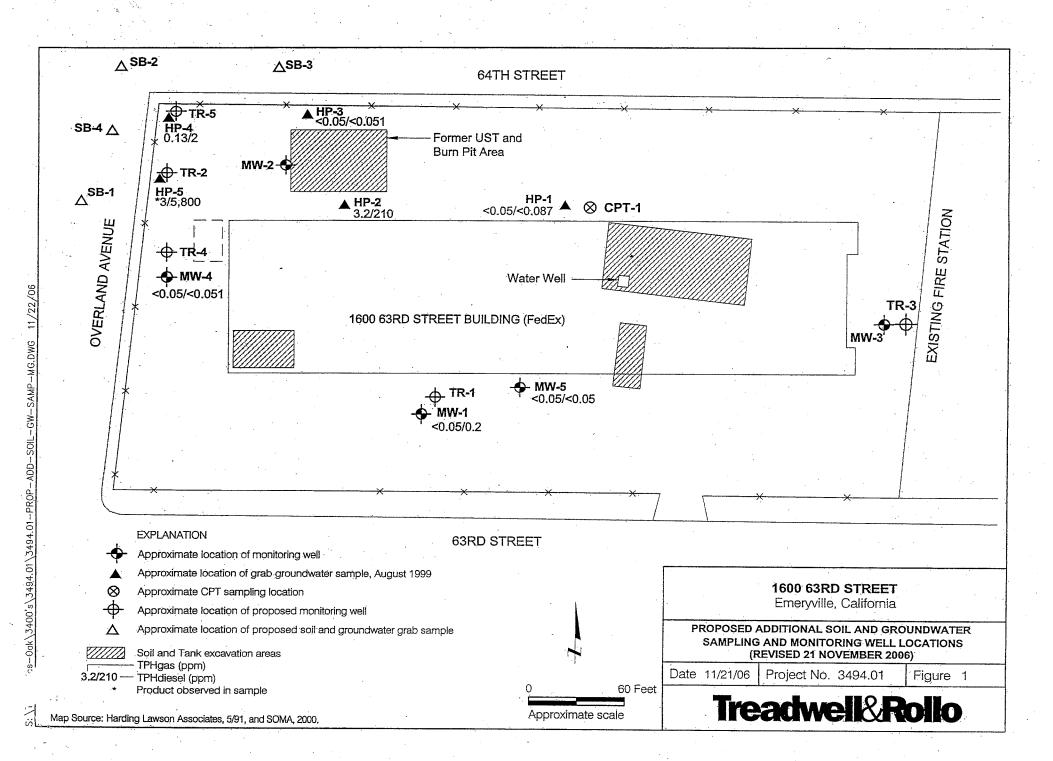
TREADWELL & ROLLO, INC.

ENVIRONMENTAL AND GEOTECHNICAL CONSULTANTS

62702

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
3494.01-62702	11/30/06	0104231	1,150.00			1,150.00
City of Emeryville 7 1		Totals	1,150.00			1,150.00

62702





APPENDIX B Soil Boring Logs and Well Construction Diagrams

PRO	DJECT:						63RD STREET yville, California	Log of E	Boring SB-1	PAGE 1 OF
Borir	ng location	n:	See	Site	Plan	, Figu	ure 2		Logged by: M. Hall	
Date	started:	1/10)/07				Date finished: 1/10/07		Drilled By: Precisio	n Drilling Co.
	ng metho				h					
	mer weig						Hammer type: NA			
Sam	pler: 5' /			iner	Τ	т.				
EPTH (feet)	54	MPL		ى چ	OVM (ppm)	LOGY	MATERIA	AL DESCRIP	TION	
DEPTH (feet)	Sample Number	Sample	Blow	Recovery (inches)	OVM	гітногосу	Curfo	ce Condition		
	_		_	12.0		-	FILL	ce Condition	5.	_
1-										
2-										글
3-										Ţ
4—							CLAY (CL)			V.
5-						CL	black, medium stiff, moist, very	plastic, 10 per	cent fine-grained sand	l, no odor
	_									
6-	SB-1- 6.0-6.5		F				☑ CLAY (CL) gray, medium stiff, moist, plasti	c 10 percent fi	ne grained sand no c	odor
7-		$ \setminus / $		48/		CL	gray, medium sun, moist, piasu	c, to percent in	ne-grained sand, no c	Juoi
8-		X		48			SANDY CLAY (CL)			
9-	_	$/ \setminus$					gray, medium stiff, moist, semi- gravel up to 1/8-inch, weak odd	plastic, 30 perc r	ent fine-grained sand	, 10 percent
10-	SB-1- 9.5-10.0	\	-			CL				
11-		\setminus				CL	·			
12-		V		60/						
13-		$ \wedge $		60	10	<u> </u>	OH TV CAND WILL OBANGE (ON			
14-		$/\setminus$					SILTY SAND with GRAVEL (SI gray, wet, moderately graded 3	0 percent sub-a	angular gravel up to 1	/4-inch, 20
15—	SB-1-	•			36	SM	percent fines, non-plastic, stron	g odor		
16-	14.5-15.0	\ /								
		$ \setminus / $		cor			SAND with SILT (SP-SM) gray, saturated, non-plastic, mo	derately grade	d sand 10 percent fin	es weak odor
17-		ΧI		60/ 60	8	SP-	gray, saturated, non plactic, me	derately grade	a sana, 10 percent iii	ics, weak odol
18—		$ / \setminus $				SM				
19—	op 4 	/ \								
20-	SB-1- 19.5-20.0	•	-							
21										
22-										
23-										
24-										
25-										
26-										
27-										
28-										
29										
	g terminated					L	1]	T	
Borin	g backfilled w ndwater enco	ith cen	nent gr	out.					Treadwe	
									Project No.: 3494.01	Figure: A-

PRO	DJECT:						63RD STREET ville, California	Log of E	Boring SB-2	PAGE 1 OF
Borir	ng locatio	n:	See	Site	Plan	, Figu	re 2		Logged by: M. Hall	
Date	started:	1/10)/07				Date finished: 1/10/07		Drilled By: Precision	on Drilling Co.
	ng metho				h		· · · · · · · · · · · · · · · · · · ·			
	mer weig						Hammer type: NA			
Sam	·		ate Li	ner	I	Т, Т				
DEPTH (feet)	5/	MPL		S) (S)	(mdd)	LOGY	MATERIA	AL DESCRIP	PTION	
DEF (fe	Sample Number	Sample	Blow	Recovery (inches)	OVM (ppm)	гітногосу	Curfo	ce Condition	· ·	
		"		~ ~			FILL	ce Condition	S.	
1—										_
2-										글
3-										
4-							CLAY (CL)			<u></u>
5—						CL	gray, medium stiff, moist, very p	olastic, 10 perc	ent fine-grained sand	l no odor
	_			-						
6-	SB-2- 6.0-6.5	• /					CLAYEY SAND (SC) gray, medium stiff, moist, semi-	plactic 20 per	cont finos no odor	
7—		$\backslash /$		48/			gray, medium sun, moist, semi-	piastic, 20 perc	Defit liftes no odol	
8-		X		48	<5					
9	_	$/ \setminus$				sc				
10—	SB-2- 10.0-10.5	• \ /	-							
11—		\setminus								
12-		V		60/						
13—		$ \wedge $		60	7					
14—		// \					SAND with SILT and GRAVEL gray, wet, fine to coarse sand, wether the coarse sand, we say that the same sand, we say that the same says are says as the says are says as the same says are says as the same says are says as the same says are says as the say	(SP-SM) veak odor, 30 p	percent sub-angular	gravel up to
15—	SB-2-	•	-			SP- SM	1/2-inch			
	14.5-15.0	\ /								
16—		$ \backslash / $				CL	SANDY CLAY (CL) gray, stiff, wet, plastic, 30 perce	ent fine-grained	sand moderate ado	Nr.
17—	SB-2- 17.0-17.5	•	-	60/ 60	25 20		SAND with GRAVEL (SP)			
18—	17.0-17.5	$ / \setminus $			20	SP	gray, dense, wet, 20 percent su	b-angular grav	el up to 1/2-inch, wea	ak odor
19—		/	_		_					
20—	SB-2- 19.5-20.0	•	-		7	\vdash				
21—										
22-										
23-										
24—										
25—										
26-										
27—										
28-										
29-										
30—						Ll				
Borin	ig terminated ig backfilled v	ith cen	nent gr	out,		~			Treadwe	ell&Rollo
Grou	ndwater not e	n ICOUTÉ	nea at	une of	uniin	y.			Proiect No.:	Figure:
									3494.01	A-:

Boring location: See Site Plan, Figure 2 Date finished: 1/10/07 D	PRO	DJECT:						SIRD STREET ville, California	Log of Bor	ing SB-3	PAGE 1 OF
Date started: 1/10/07 Drilling method: Dread Push Hammer velopid/drop: NA Sampler: 5' Acetate Liner SAMPLES SAMPLES	Borin	ıg locatio	n:	See	Site I	Plan	, Figur	re 2	Lo	gged by: M. Hall	
Hammer weight/drop: NA Sample: Sample: Sa				-				· · · · · · · · · · · · · · · · · · ·	Dr	illed By: Precision	n Drilling Co.
Samplor: 5' Acetate Liner SAMPLES MATERIAL DESCRIPTION Surface Conditions: FILL CLAY (CL) black, stiff, moist, plastic, 10 percent fine-grained sand, no odor CLAY (CL) gray, medium stiff, dry to moist, semi-plastic, 30 percent fine-grained sand, no odor SANDY CLAY (CL) gray, medium stiff, dry to moist, semi-plastic, 30 percent fine-grained sand, no odor SAND with SILT and GRAVEL (SP-SM) gray, modium dense, wet, 30 percent sub-angular gravel up to 1/8-inch, non-plastic, moderately graded, 10 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor Treadwell&Rollo Protect No: Faure	Drillir	ng metho	d: D	irect	Push	า					
SAMPLES Sange of the Committee of the C	Ham	mer weig	ht/dro	op: I	NA			Hammer type: NA			
MATERIAL DESCRIPTION Surface Conditions: FILL CLAY (CL) black, stiff, moist, plastic, 10 percent fine-grained sand, no odor CL SANDY CLAY (CL) gray, medium stiff, dry to moist, semi-plastic, 30 percent fine-grained sand, no odor SAND with SILT and GRAVEL (SP-SM) gray, medium dense, wet, 30 percent sub-angular gravel up to 1/8-inch, non-plastic, moderately graded, 10 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor Treadwell & Rollo Treadwell & Rollo Poicet No: Faur	Sam	pler: 5'	Aceta	ate Li	ner						
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FILL CLAY (CL) black, stiff, moist, plastic, 10 percent fine-grained sand, no odor SANDY CLAY (CL) gray, medium stiff, dry to moist, semi-plastic, 30 percent fine-grained sand, no odor SANDY CLAY (CL) gray, medium stiff, dry to moist, semi-plastic, 30 percent fine-grained sand, no odor SAND with SILT and GRAVEL (SP-SM) gray, medium dense, wet, 30 percent sub-angular gravel up to 1/8-inch, non-plastic, moderately graded, 10 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor Treadwell S Rollo Protect No: Figure	PTI eet)	Samole	ple	ĕţ	very ies)	Idd) N	OLO 0	MATERI	AL DESCRIPTIO	N	
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CLAY (CL) SB-3- SB-3-	2-										Ū
CLAY (CL) SB-3- SB-3-	3—										
SANDY CLAY (CL) gray, medium stiff, dry to moist, semi-plastic, 30 percent fine-grained sand, no odor SB-3-10-0 SB-								CLAY (CL) black, stiff, moist, plastic, 10 pe	rcent fine-grained s	and, no odor	
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SB-3-10-11-12-10-13-10-14-15-14-15-10-14-15-14-14-15-1	7—	6.0-6.5	\setminus					gray, medium stiff, dry to moist	semi-plastic, 30 pe	ercent fine-grained	on ,bnas t
SAND with SILT and GRAVEL (SP-SM) gray, medium dense, wet, 30 percent sub-angular gravel up to 1/8-inch, non-plastic, moderately graded, 10 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor Treadwell Rollo Groundwater not encoulered at time of drilling. Treadwell Rollo Project No: Figure:	8-		V		48/	<5		odor			
SB-3- 10- 11- 12- 13- 14- 15- 14-5-15-0 160 10 SP-SM SAND with SILT and GRAVEL (SP-SM) gray, medium dense, wet, 30 percent sub-angular gravel up to 1/8-inch, non-plastic, moderately graded, 10 percent fines, weak odor SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SB-3- 17.0-17.5 SB-3- 18- 19- 20- 18- 21- 22- 23- 24- 25- 26- 27- 28- 29- 30- 30- Boring banddilled with content grout. Groundwater not encoutered at time of drilling. Treadwelk:Rollo Project No: Figure:	-		$ \Lambda $		48	-0					
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SAND with GRAVEL (SF-SM) SB-3-14-5-15.0 SB-3-17-0-17.5 SB-3-19-19-5-20.0 SB-3-19-5-20.0 SB-3-29-19-5-20.0 SB-3-19-5-20.0 SB-3-19-5-20.0	11-		\mathbb{N}/\mathbb{I}								
SAND with GRAVEL (SF-SM) SB-3-14-5-15.0 SB-3-17-0-17.5 SB-3-19-19-5-20.0 SB-3-19-5-20.0 SB-3-29-19-5-20.0 SB-3-19-5-20.0 SB-3-19-5-20.0	12-		V		60/			CAND WOLT LODAYS	/OD 011)		
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SB-3-14.5-15.0 15 SB-3-14.5-15.0 160/ 17 SB-3-17.0-17.5 SB-3-19.5-20.0 21 22 23 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:			$ / \setminus $			10	SP-	non-plastic, moderately graded	, 10 percent fines, v	veak odor	•
SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SP SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SP SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SP SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SP Treadwell&Rollo Project No.: Figure:	14-	00.0	/_\	_		4-					
SB-3- 17.0-17.5 18- 17.0-17.5 19- 20- 19.5-20.0 10 SP SANDWIN GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SP SANDWIN GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SP SANDWIN GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SP SANDWIN GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor SP Treadwell&Rollo Project No.: Figure:	15—		\ /	-		15					
gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor span angular gravel, non-plastic, 5 percent fines, weak odor gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor Treadwell&Rollo Froiect No.: Figure:	16-		$ \setminus / $					SAND with GRAVEL (SP)			
18— 17.0-17.5	17-		V.		60/	10		gray, dense, wet, 15 percent su	ıb-angular gravel, n	on-plastic, 5 perc	ent fines,
Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	18		À	-		10	SD	weak odor			
SB-3-19.5-20.0 21-22-23-24-25-26-27-28-29-30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:			$ / \setminus $								
21— 22— 23— 24— 25— 26— 27— 28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	19-	on a -	/_\	_		√ E					
22— 23— 24— 25— 26— 27— 28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	20-			_		\ 0	 -				
23— 24— 25— 26— 27— 28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	21-										
23— 24— 25— 26— 27— 28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	22-										
24— 25— 26— 27— 28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:											
25— 26— 27— 28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:											
26— 27— 28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	24—										
27— 28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	25—										
28— 29— 30 Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	26-										
Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	27-										
Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:	28-										
Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwell&Rollo Project No.: Figure:											
Boring terminated at a depth of 20 feet. Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Treadwelk Rollo Project No.: Figure:	29—										
Boring backfilled with cement grout. Groundwater not encoutered at time of drilling. Project No.: Figure:			l			L	<u></u>				
Project No.: Figure:	Borin	g backfilled v	vith cen	nent gr	out.		7			Treadwe	Il&Rollo
3494.01 A	Grou	⊓awater not e	encoute	red at	ume of	ariting	y.		Proie		Figure:

PRC	DJECT:						3RD STREET ille, California	Log of Boring SB-4
Borin	g location	า:	See	Site I	Plan.	Figure	e 2	Logged by: M. Hall
	started:						Date finished: 1/10/07	Drilled By: Precision Drilling Co.
Drillir	ng metho	d: D	irect	Pust	h			
Ham	mer weig	ht/dr	op:	NA			Hammer type: NA	
Samı	pler: 5'	Acety	/lene	!				
프 _	SA	MPL	ES		(mc	ζ	MATED	AL DESCRIPTION
DEPTH (feet)	Sample	Sample	Blow	Recovery (inches)	OVM (ppm)	LITHOLOGY	IVIATEIX	AL DESCRIPTION
	Number	Sa	m ö	Rec	6	5		ace Conditions:
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·								
2-								
3—							CLAY (CL)	d.d. af
4-							gray, soft, moist, plastic, poorl	y graded, <5 percent fine-grained sand, no odor
5-						CL		
6-	SB-4-	•	-			CL		
7-	6.0-6.5	\ /						
8-		V		48/	<5		041/10// 01 41// (01)	
9-		$ / \setminus$		48			SANDY CLAY (CL) medium stiff, moist, slightly pla	astic, 40 percent fine-grained sand, poorly graded,
-	SB-4-	/	È		10	CL	weak odor	
10-	9.5-10.0	\ /	<u> </u>					
11—		$ \setminus /$						
12-		I X		60/			SAND with SILT and GRAVE	(SP-SM)
13-		$ /\rangle$					gray, medium dense, wet, 30 plastic, moderately graded, 10	percent súbangular gravel up to 1/2-inch, non percent fines, moderate odor
14-	_	/ \	L			SP- SM	•	
15—	SB-4- 14.5-15.0	•	F		56			
16—		\setminus	Ϊ				SANDY CLAY (CL)	
17—	SB-4-	V		60/		CL	medium stiff, wet, slightly plas moderate odor	tic, poorly graded, 40 percent fine-grained sand,
18-	17.5-18.0	$/ \setminus$	T	60		SP-	SAND with SILT and GRAVEI	(SP-SM) percent subangular gravel, non plastic, moderately
19—	SB-4-	/ ·	4		25 9.1	SM	graded, 10 percent fines, mod	erate odor
20—	19.5-20.0		<u> </u>		3.1			
21—							•	
22—								
23-								
24—					-			
25-					ĺ			
26-								
27—								
28—								
29—								
30-	L	1	<u> </u>		1			
Borii	ng terminated ng backfilled u undwater not	with ce	ment g	rout.		g.		Treadwell&Rollo Project No.: Figure:
								3494.01 Figure.

PRO	DJECT:					63RD STREET ville, California	Log of E	Boring TR-1
Borir	ng location	n: See	Site	Plan	, Figu	ure 2		Logged by: M. Hall
	started:					Date finished: 1/9/07		Drilled By: Precision Drilling Co.
Drilli	ng metho	d: Direct	Pus	h				
Ham	mer weig	ht/drop:	NA			Hammer type: NA		
Sam	pler: 5'	Acetate L	iner					
DEPTH (feet)	SA Sample	Sample Sample Blow Count	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIA	AL DESCRIP	TION
ے ا	Number	San	Reco (incl	8	5		ce Condition	s:
1-						FILL		.
2-		X	55/ 60	<5	CL	GRAVELLY CLAY (CL)		
3-		/\				brown, stiff, moist, 30 percent s percent medium to coarse grad CLAY (CL)	ub-angular gra ed sand, no od	vel up to 1-inch, slightly plastic, 10 lor
5-	TR-1- 4.5-5.0	• 1			CL	brown, soft, moist, non-plastic,	10 percent fine	-grained sand, no odor -
6-		$\left \right $	55/			CLAYEY SAND (SC) gray, loose, wet, 10 percent sul	o-angular grave	el up to 1/8-inch. slightly plastic.
7— 8—	TR-1-		60	<5	sc	poorly graded, 30 percent fines discoloration	, no odor	——————————————————————————————————————
9—	8.0-8.5					SANDY CLAY (CL)		
10—	TR-1- 9.5-10.0	\ 			CL	gray, medium stiff, wet, slightly graded, no odor	plastic, 35 perc	ent fine-grained sand, poorly
11-		\/	60/					
13-		$ \bigwedge $	60	<5		CLAY (CH) light brown, soft, wet, very plas- odor	tic, <5 percent t	fine-grained sand, poorly graded, no
14— 15—	TR-1- 14.5-15.0	<u> </u>	,		СН			- -
16-		$\left \right $	60/					_
17—		$ \bigwedge $	60/	<5	sc	CLAYEY SAND (SC) light brown, dense, wet, non-pla	astic, moderate	ly graded, 20 percent fines, no odor
19— 20—	TR-1- 19.5-20.0	•				CLAY brown, medium stiff, wet, slight	y plastic, 15 pe	ercent fine-grained sand, poorly
21—						graded, no odor		
22-								_
23—								_
24—								_
25—								
26-								_
27-								_
28-								
29—								
30-			<u> </u>		<u> </u>			
Borir Borir	ng backfilled v	at a depth of with cement g outered at 7.3	rout.	t.				Treadwell&Rollo
3								Project No.: 3494.01 Figure: A-5

PROJECT:				63RD STREET ville, California	Log of Boring TR-2
Boring location: See	Site	Plan	, Figu	ure 2	Logged by: M. Hall
Date started: 1/9/07				Date finished: 1/9/07	Drilled By: Precision Drilling Co.
Drilling method: Direct	t Pusl	n			
Hammer weight/drop:	NA			Hammer type: NA	
Sampler: 5' Acetate I	iner				
Samble Number Sound Number Soun	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERI	AL DESCRIPTION
Number is S	Rec (inc	8	5		ce Conditions:
1-2-3-	60/	<5		FILL	
4— 5— TR-2- 4.5-5.0			CL	SANDY CLAY (CL) dark brown, soft, moist, plastic, odor	35 percent fine-grained sand, poorly graded, no
7	60/ 60	<5		፟፟፟፟፟፟፟	
9- 10- 10- 10- 10- 10- 10- 10- 10- 10- 10			CL	CLAY with SAND (CL) gray, medium stiff, moist, slight graded, no odor, slight petrolet	ly plastic, 20 percent fine-grained sand, poorly im
11- 12- 13-	55/ 60	10		SANDY CLAY (CL) gray, very plastic, 40 percent fi	ne-grained sand, poorly graded, moderate odor
14— 15— 16— 16—			CL		
17-	60/ 60	10			
19— 20— TR-2- 19.5-20.0			SP- SM	SAND with SILT and GRAVEL gray, moderately dense, wet, 3 moderate odor	(SP-SM) 0 percent sub-angular gravel, 10 percent fines,
21—					
22—					
23-					
24—	***************************************				•
25—					
26—					
27—					
28-					•
29—					
Boring terminated at a depth o Boring backfilled with cement Groundwater encoutered at 7.	grout.		•		Treadwell&Rollo
30 Boring terminated at a depth o Boring backfilled with cement Groundwater encoutered at 7.	.501.				Project No.: 3494.01 Figure: A-6

PRO	DJECT:					63RD STREET ville, California	Log of B	Boring TR-3
Borir	ng location	n: Se	e Site	Plan	, Figı	ıre 2		Logged by: M. Hall
Date	started:	1/9/07				Date finished: 1/9/07		Drilled By: Precision Drilling Co.
—	ng metho			h				
	mer weig					Hammer type: NA		
	pler: 5'	Acetate AMPLES		Τ_	T			
DEPTH (feet)	Sample Number	Sample	>-	OVM (ppm)	LITHOLOGY	MATERIA		
	Manne	S T	S & =	<u> °</u>	=	Surfa FILL	ce Conditions	S:
1-			60/					
		X	60	<5		CLAY (CL) black, soft, moist, plastic, 10 pe	ercent fine sand	noorly graded, weak odor
3— 4—					CL	Diduk, Gork, Molok, Placeto, 12 p.	NOONE INTO SUITE	
5—	TR-3- 4.5-5.0	•						_
6— 7—			60/ 60	<5	SP	SAND with GRAVEL (SP) brown, moderately dense, 35 p	ercent angular t	to sub-angular, non-plastic, <5
8-		$ / \setminus $				CLAY with GRAVEL (CL)	roont oub-and	gular gravels less than 1/8-inch,
9-	TR-3-	•				plastic, 5 percent fine-grained s	sand, poorly gra	ded, no odor
10-	9.5-10.0							_
11-		$ \rangle $	42/	_	CL			
13-		$ \lambda $	60	<5				_
14-		/ \						
15-	TR-3-					CLAYEY SAND (SC)		
16-		$\setminus /$			sc			o-angular gravel, slightly plastic,
17—		$ \bigvee $	60/ 60	<5		CLAY (CL)		
18—		/\	00		CL	brown, medium stiff, moist, plas	stic, 10 percent	fine-grained sand, poorly graded,
19—								_
20—	TR-3- 19.5-20.0	•			-			
21—	Ė							_
22-								_
23-								_
24—								_
25—								_
26— 27—								
28-								_
29-								
30-								***************************************
Borir Borir	ng terminated	with cemen	it grout.	t.				Treadwell&Rollo
Grou	undwater ence							Project No.: Figure:
3								3494.01 A-7

PRO	DJECT:						63RD STREET vville, California	Log of Boring TR-4
Borin	ng location	n:	See	Site I	Plan	, Figu	ure 2	Logged by: M. Hall
	started:			· · · · · · · · · · · · · · · · · · ·			Date finished: 1/9/07	Drilled By: Precision Drilling Co.
Drillir	ng metho	d: D	irect	Pusl	า			
Ham	mer weig	ht/dro	op:	NA			Hammer type: NA	
Sam	pler: 5' /	Aceta	ate Li	iner		,		
Εç	SA	MPL	ES.	r <u> </u>	(mda	OGY	MATERIA	AL DESCRIPTION
DEPTH (feet)	Sample Number	Sample	Blow	Recovery (inches)	OVM (ppm)	LITHOLOGY		
	Transci	Š	-0	B. :	0	=	Surfa FILL	ce Conditions:
1_		\setminus					1122	
2-		$ \bigvee $		50/	_			륍_
		ΙĂ		60	<5			V
3-		$ / \setminus$					SAND with CLAY (SP-SC)	st, non-plastic, moderately graded, 10 percent fines,
4-	·	/ \	_			SP-	no odor	it, non-plastic, moderately graded, to percent intes,
5—	TR-4- 4.5-5.0	· •	-			SC		-
6-		\					SANDY CLAY (CL)	
7—		V		55/	<5		dark brown, soft, wet, slightly p	lastic, 20 percent fine to medium-grained sand,
8-		$ \wedge $		60	-5	CL	moderately graded, no odor	<u>-</u>
		/ \ •					some staining	
9-	8.5-9.0 TR-4-	•	F				☑ CLAY with SAND (CL)	ercent fine-grained sand, poorly graded, no odor
10-	9.5-10.0	\ /					brown, soit, moist, plastic, 10 p	ercent inte-granica sand, poorly graded, no odor =
11-		$ \setminus $				CL		-
12-		ΙX		60/	<5			-
13-		/\		60		SP-	SAND with CLAY (SP-SC)	
14—		$/ \setminus$				SC	brown, moderately dense, mois	st, 10 percent sub-angular gravel, non-plastic,
15-	TR-4-		t			CL	moderately graded, 10 percent CLAY (CL)	_
16-	14.5-15.0	\ /					brown, medium stiff, moist, plas no odor	stic, 10 percent fine-grained sand, poorly graded,
1		$ \rangle /$		001		SP	SAND with GRAVEL (SP)	de la constant de O.S. inche non plantin
17-		ΙX		60/ 60	<5		moderately graded, no odor	t sub-angular gravel up to 0.5-inch, non-plastic,
18-		$ / \rangle$				CL	CLAY (CL)	- stic, 10 percent fine-grained sand, poorly graded,
19—		/ \	L				no odor	
20-	TR-4- 19.5-20.0	•	┡			\vdash		
21-								_
22-								-
23-								<u>-</u>
								· _
24-								
₹ 25—								_
[26 발								-
ਰੂ 27 –	-							-
28—								-
ž 29—					-			_
30-								- Application of the state of t
NO Borir Borir	ng terminated ng backfilled v undwater enc	with ce	ment g	rout.	t.			Treadwell&Rollo
EN SIGN	unator onto	- ~ 10100	0.7					Project No.: Figure: A-8
Ĕ E								3484.01 A-0

PRO)JECT:					63RD STREET vville, California	Log of E	Boring TR-5
Borin	g locatio	n: See	Site	Plan	, Figu	ure 2		Logged by: M. Hall
-	started:				·	Date finished: 1/9/07		Drilled By: Precision Drilling Co.
Drillir	ng metho	d: Direc	t Pus	h				
Ham	mer weig	ht/drop:	NA			Hammer type: NA		
Sam	oler: 5'	Acetate I	Liner	·				
DEPTH (feet)	SA Sample	Sample Sample Blow	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIA	AL DESCRIP	TION
	Number	San	(inc	8	5		ce Condition	S:
1- 2-			60/			FILL		↑ - -
3-		$ \Lambda $	60	<5				<u> </u>
4 5 6	TR-5- 4.5-5.0	•			CL	CLAY with SAND (CL) dark brown, soft, moist, plastic, odor	20 percent fine	e-grained sand, poorly graded, no
7— 8— 9— 10—	TR-5- 9.5-10.0		50/ 60	<5	CL	CLAY (CL)	ercent fine-grai	ned sand, no odor
11— 12— 13— 14—	_		50/ 60	15	CL CL SC	fine-grained sand, weak odor CLAY (CL) brown, stiff, moist, plastic,10 pe CLAYEY SAND with GRAVEL	ercent fine-grain	ned sand, poorly graded, no odor avel up to 0.25-inch, plastic, 30 percent
15— 16— 17—	TR-5- 14.5-15.0		60/	-5	CL	moderately graded, 20 percent CLAY (CL) gray, stiff, wet, plastic, 10 percent	fines, weak od	or –
18— 19—	TR-5-		60		SP	SAND with GRAVEL (SP) gray, dense, wet, 40 percent so moderately graded, slight odor	ıb-angular grav	vel up to 0.5-inch, non-plastic,
20— 21— 22—	19.5-20.0 [•]							-
								_
23-								_
24-								-
25-								_
26-								-
27-								-
28-								-
20								-
30-	<u> </u>							p
Bori	ng terminated ng backfilled undwater end	with cement	grout.	et.				Treadwell&Rollo
								Project No.: 3494.01 Figure: A-9

			UNIFIED SOIL CLASSIFICATION SYSTEM				
М	ajor Divisions	Symbols	Typical Names				
200		GW	Well-graded gravels or gravel-sand mixtures, little or no fines				
Soils > no. 2	Gravels (More than half of	GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines				
ις ν	coarse fraction >	GM	Silty gravels, gravel-sand-silt mixtures				
ained of soi size	no. 4 sieve size)	GC	Clayey gravels, gravel-sand-clay mixtures				
Coarse-Grained (more than half of soil sieve size	Canada	sw	Well-graded sands or gravelly sands, little or no fines				
arse	Sands (More than half of	SP	Poorly-graded sands or gravelly sands, little or no fines				
S ±	coarse fraction < no. 4 sieve size)	SM	Silty sands, sand-silt mixtures				
om)	110. 4 Sieve Size)	sc	Clayey sands, sand-clay mixtures				
s = (e)		ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts				
Soils of soil size)	Silts and Clays LL = < 50	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays				
		OL	Organic silts and organic silt-clays of low plasticity				
-Grained than half 200 sieve		МН	Inorganic silts of high plasticity				
Fine -((more t < no. 2	Silts and Clays LL = > 50	СН	Inorganic clays of high plasticity, fat clays				
لَا فِي لَا	LL = > 00	ОН	Organic silts and clays of high plasticity				
Highl	Highly Organic Soils PT Peat and other highly organic soils						

GRAIN SIZE CHART							
	Range of Grain Sizes						
Classification	U.S. Standard Sieve Size	Grain Size in Millimeters					
Boulders	Above 12"	Above 305					
Cobbles	12" to 3"	305 to 76.2					
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76					
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074					
Silt and Clay	Below No. 200	Below 0.074					

fine No. 40 to No. 200 0.420 to 0.074

filt and Clay Below No. 200 Below 0.074

Core sample

The Core sample Analytical laboratory sample

Stabilized groundwater level Sample taken with Direct Push sampler

SAMPLER TYPE

- C Core barrel
- CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
- D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
- O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube
- PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test

Undisturbed sample taken with thin-walled tube

Sampling attempted with no recovery

Disturbed sample

- S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
- SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter
- ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

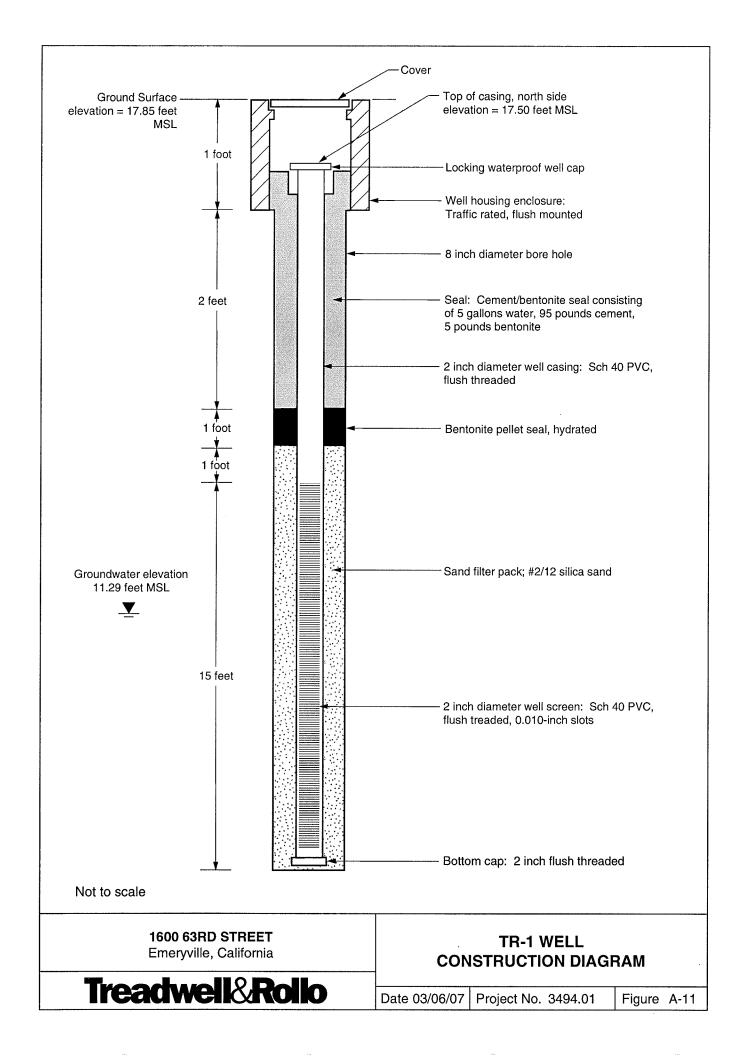
1600 63 STREET Emeryville, California

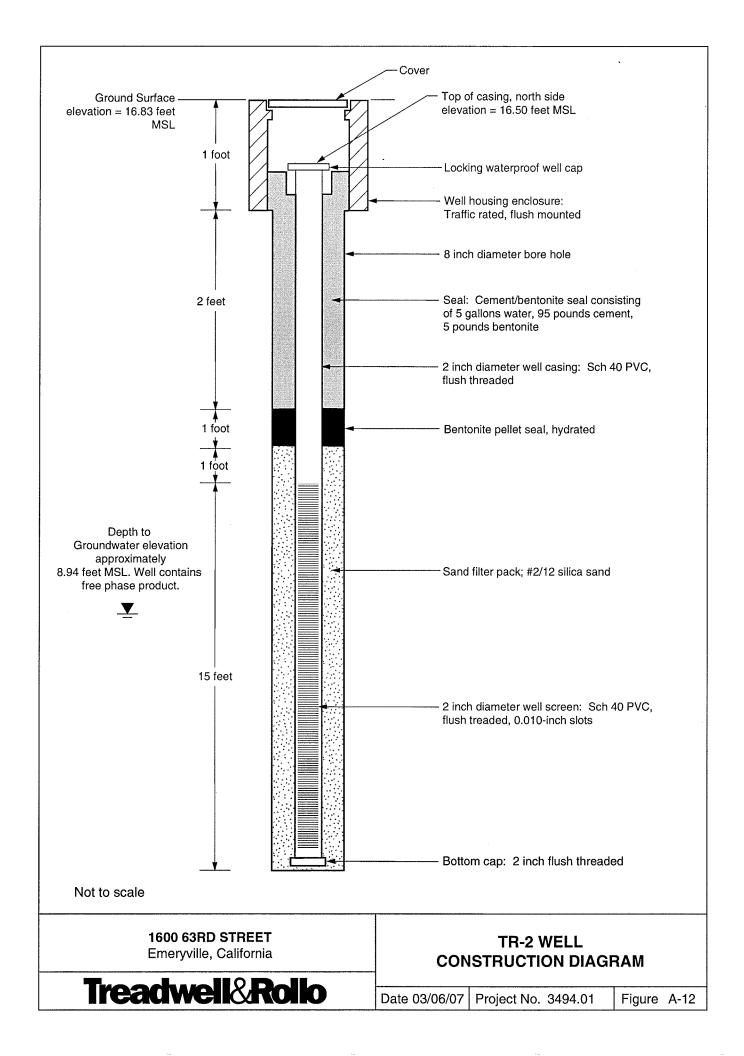
CLASSIFICATION CHART

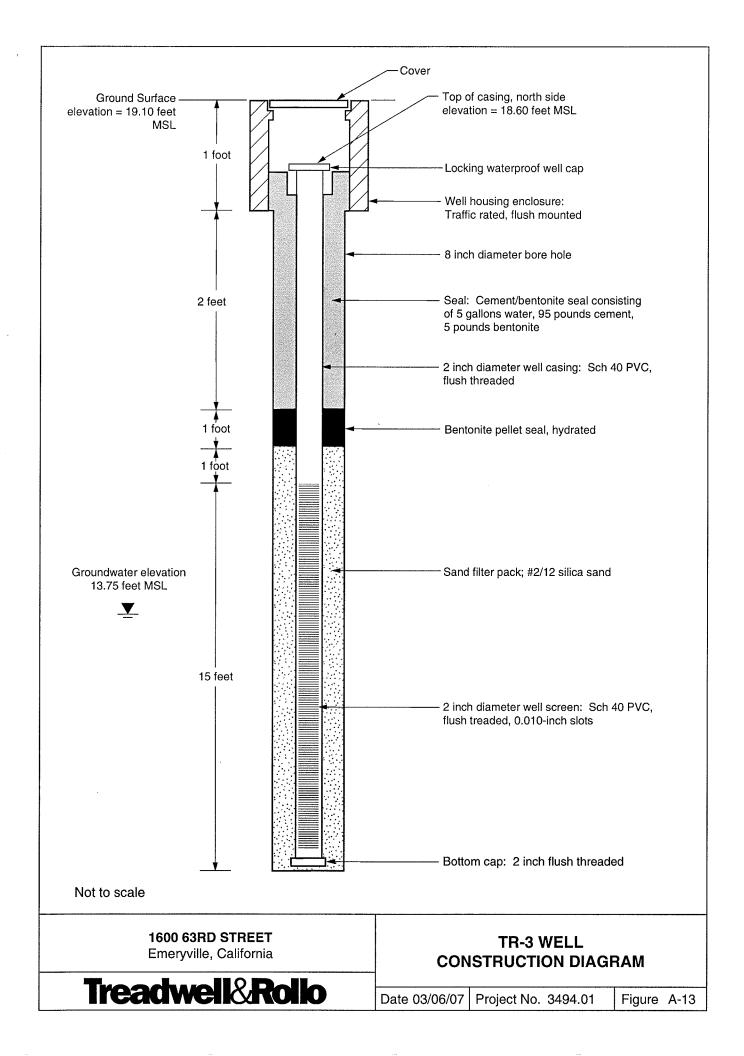
Treadwell&Rollo

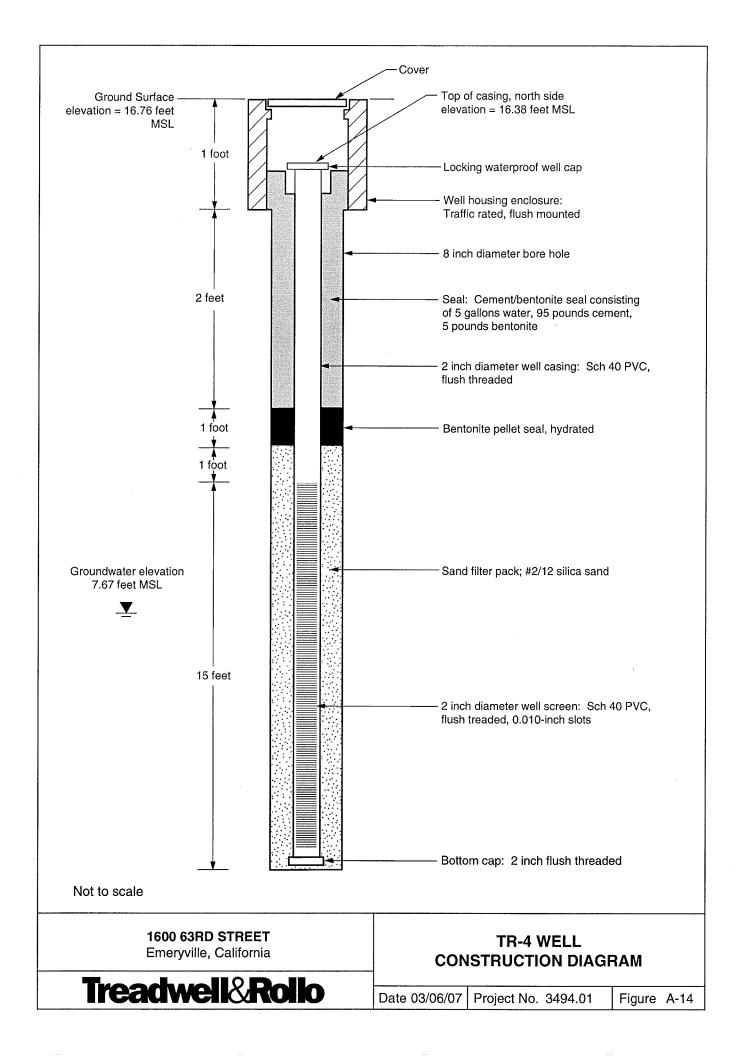
Date 03/02/07 | Project No. 3494.01

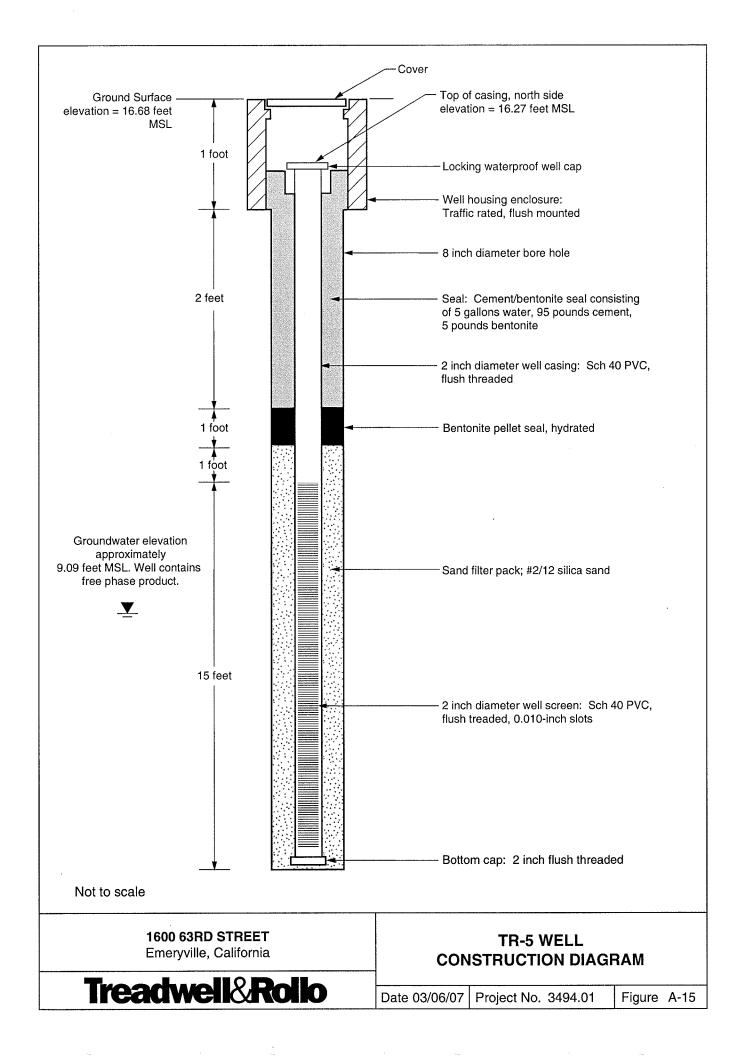
Figure A-10













APPENDIX C Surveyor's Report



CSS ENVIRONMENTAL SERVICES, INC.

Managing Cost, Scope and Schedule 100 Galli Drive, Suite 1 Novato, CA 94949 Telephone: (415) 883-6203 Facsimile: (415) 883-6204

Site Positions

CSS PROJECT 6446 - TREADWELL AND ROLLO $1600 \ 63^{RD}$ Street, Emeryville

Horizontal Coordinate System: North American 1983-CONUS Survey Date: 01/15/07

Height System:

North American Vertical Datum 1988-Ortho. Ht. (GEOIDO3)

Project file:

6446 TandR Emeryville.spr

Desired Horizontal Accuracy:

0.100Ft + 1ppm

Desired Vertical Accuracy:

0.100Ft + 2ppm

Confidence Level:

95% Err.

Linear Units of Measure:

Int. Feet

	Site ID	Site Descriptor		Position	95% Error	Fix Position Status Status
1	TR-3	NR WELL LOC N RIM WELL LOCATION N TOC	Lat. 37° Lon. 122° Elv. Elv.	7 50' 38.78025" 1 7 17' 29.29047" W 19.10 18.60		Adjusted
2	TR-2	NR WELL LOC N RIM WELL LOCATION N TOC	Lat. 37° Lon. 122° Elv. Elv.	7 50' 38.26542" N 7 17' 35.14562" N 16.83 16.50		Adjusted
3	MW-2	THIS IS TEM-B ON NR N RIM WELL LOCATION N TOC	Lat. 37° Lon. 122° Elv. Elv.	2 50' 38.53312" 1 2 17' 34.43125" 1 17.16 16.53		Adjusted
4	3814	MONUMENT AA3814	Lat. 37° Lon. 122° Elv.	44′ 59.75783″ N 12′ 18.11826″ N 11.581		Fixed Adjusted Fixed Fixed
5	TR-1	NR WELL LOC N RIM WELL LOCATION N TOC	Lat. 37° Lon. 122° Elv. Elv.	2 50' 37.30091" 1 2 17' 32.89852" 1 17.85 17.50		Adjusted
6	TR-4	NR WELL LOC N RIM WELL LOCATION N TOC	Lat. 37° Lon. 122° Elv. Elv.	7 50' 37.52265" 1 7 17' 34.90752" 1 16.76 16.38		Adjusted



CSS ENVIRONMENTAL SERVICES, INC.
Managing Cost, Scope and Schedule
100 Galli Drive, Suite 1
Novato, CA 94949
Telephone: (415) 883-6203
Facsimile: (415) 883-6204

	Site ID	Site Descriptor				Positio	on	95% Error	Fix Status	Position Status
7	0882	MONUMENT HT0882	Lat. Lon. Elv.	37° 122°	46' 17'	48.04137" 53.51060" 9.131		0.000	Fixed Fixed Fixed	Adjusted
8	TR-5	THIS IS TBM-A ON NR N RIM WELL LOCATION	Lat. Lon. Elv.		50'	38.54681" 35.15438" 16.68		0.076 0.079 0.345		Adjusted
		N TOC	Elv.			16.27				





APPENDIX D Groundwater Sampling Forms

Project Name 1600 635 Street, Emery	ville	Well No.	38-1		·
Project Number 3494.01	<u>.</u>	Well Type	Monitor	Extraction [Other Temp. Boring
Recorded By MbH	Sampled by	MBH		Date	1/10/07
	WE	LL PURGING			
PURGE VOLUME			PURGE MI	רדטמק	· ·
Well casing diameter			Bailer \ Type	energy and the state of the sta	on Catsbosat
2-inch 4-inch Mother - inch	h		Pump \ Type		DI CONSTONAL
Well Total Depth (TD, ft. below TOC):	''		Other	- Prov	· Poorth
Depth to Water (WL, ft. below TOC):	_			NTAKE	· · · · · · · · · · · · · · · · · · ·
Depth to free phase hydrocarbons (FP, ft. below TOC)	6.44	1 (Near top	Depth (ft)	14 ft
Number of casing volumes to be purged	Hed bottles	due to	Near Bottom		
☐ 4 ☐ 10	Hed bottles	10	Other		
PURGE VOLUME CALCULATION	1.1	•		<u>.</u>	
x	<u> </u>	· · · · · · · · · · · · · · · · · · ·	_ =	gals	No. 1
Water Column Length Multiplier		No. Vols	CALCULA	ATED PURGE	VOLUME
Total Purge Time (Multiplier	2" = 0.17, 4" = 0	0.66, 6" = 1.5)		gals	
Recharge Rate Purge Rate		_	ACTUAL	L PURGE VO	LUME
GROUNDWATER PARAMETER MEASUREMENTS	Meter Type	<u> </u>			
Time / Gallons pH	Cond.	Temp	deg C	Turbidity	Color / Odor
	(mmhos/cm)		deg F	(NTU)	Remarks
/ NOT	MEAS	MKBD	bue	TO	FPP.
	-				
		· ·			
1			<u> </u>		
1					
/		<u> </u>			
/	 			· · · · · · · · · · · · · · · · · · ·	
Orangada distantian wall pura		<u> </u>		·	
Comments during well purge	Durge water of	torage/disposal	Drummed ons		lou
				site	Other
	Annual of the second of the second of the second of	L SAMPLING			
SAMPLING METHOD Date/Time Sampled		1	_		1.
Bailer - Type G GROUNDWATER SAMPLE PARAMETER MEASU	— Bereckieg	Sample port	Ц	Other	<u> </u>
Date / Time / % Recharge pH	Cond.	Meter Type Temp	deg C	Turbidity	Calas / Odor
Date / Time / % Necharge ph	(mmhos/cm)	remp	deg F	(NTU)	Color / Odor Remarks
	Ť i				
SAMPLING PROGRAM	<u> </u>	-			
Sample No. Container #/Volume	Analysis	Preservatives	Labora	atorv	Comments
				Att. 7	OSITITION TO SERVICE AND ADDRESS OF THE PARTY OF THE PART
					-
	1				
	1		 		
	 		.,		
	l				
	+				
	<u> </u>				
QUALITY CONTROL SAMPLES					
QUALITY CONTROL SAMPLES Duplicate Samples					Blank Samples
12012 011 011 011 011 011 011 011 011 01	ıple No.		Туре	Sa	Blank Samples
Duplicate Samples	iple No.		Type Trip	Sá	
Duplicate Samples	nple No.			Sa	ample No.
Duplicate Samples	nple No.		Trip	Sá	ample No.

Project Name 1600 63	27 St. Emer	yvine	Well No.	58	-	
Project Number 3494.0			Well Type	Monitor	Extraction	Other temp. cased box
Recorded By MBH		Sampled by	MBH	<u>. – </u>	_ Date _	1/10/07
		WE	LL PURGING			
PURGE VOLUME				PURGE 1	METHOD	
Well casing diameter				Bailer \ Typ	Automotiva or visit in the property	
2-inch 4-inch	Other 1-1	n cla			e perci	MARRIO
Well Total Depth (TD, ft. below To		aron.		Other	e HVI	Y OV CP
Depth to Water (WL, ft. below TC		5.69			INTAKE	
Depth to free phase hydrocarbons	(FP, ft. below TOC)): Shoen	1	□Near top	Depth (ft)	
Number of casing volumes to be			.	Near Botton	n Depth (ft)	
4 🗍 10	Other 111	bottles due to)	Other		
PURGE VOLUME CALCULA	TION	4				
	x	Х			gals	
Water Column L	- -	iplier	No. Vols	CALCUL	ATED PURGE	VOLUME
		•				
Total Purge Time		olier : 2".= 0.17, 4" = 0	J.66, 6" = 1.5)	10711	gals	
Recharge Rate	Purge		-	LACTU	AL PURGE VC	DLUME
GROUNDWATER PARAMET		ASS THE REPORT OF THE STATE OF		 	7 1111	
Time / Gallons	pl	H Cond. (mmhos/cm)	Temp	deg C deg F	Turbidity (NTU)	Color / Odor Remarks
	NIT	MERREMERE	D DUB	To F	PP	Tiernano
1	100 (WESTSMASS	J DUB	, F	FF	
/		•	·		· · · · · · · · · · · · · · · · · · ·	
1						
/ / /						
/ / / / Comments during well purge						
/ / / / Comments during well purge			torage/disposal	Drummed o	nsite [Other
/ / / / Comments during well purge			torage/disposal		nsite [Other
/ / / / Comments during well purge	Date/Time Sam	WEL			nsite [Other
	Date/Time Sarr	WEL	LSAMPLING /		nsite [Other
SAMPLING METHOD	(0)	weL	LSAMPLING /			Other
SAMPLING METHOD Bailer - Type	E PARAMETER ME.	WEL npled ASUREMENTS	L SAMPLING / Sample port			Color / Odor
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI	E PARAMETER ME.	WEL npled ASUREMENTS	L SAMPLING / Sample port Meter Type		Other [1
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI	E PARAMETER ME.	WEL npled ASUREMENTS H Cond.	L SAMPLING / Sample port Meter Type		Other Turbidity	Color / Odor
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI	E PARAMETER ME.	WEL npled ASUREMENTS H Cond.	L SAMPLING / Sample port Meter Type		Other Turbidity	Color / Odor
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re	E PARAMETER ME.	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type	deg C deg F	Other Turbidity	Color / Odor
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM	E PARAMETER ME, charge pl	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM	E PARAMETER ME, charge pl	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM	E PARAMETER ME, charge pl	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM	E PARAMETER ME, charge pl	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No.	PARAMETER ME. charge pl / Container #/Vol.	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No.	PARAMETER ME. charge pl / Container #/Vol.	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No.	PARAMETER ME. charge pl / Container #/Vol.	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLING PROGRAM Sample No.	E PARAMETER ME. Charge ph / Container #/Volu	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No.	E PARAMETER ME. charge ph / Container #/Vol.	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F	Other [Color / Odor Remarks Comments
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No.	E PARAMETER ME. charge photostation photosta	MEL ASUREMENTS H Cond. (mmhos/cm) Jume Analysis	L SAMPLING / Sample port Meter Type Temp	deg C deg F Labo	Other [Turbidity (NTU)	Color / Odor Remarks Comments Blank Samples
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No.	E PARAMETER ME. charge photostation photosta	ASUREMENTS H Cond. (mmhos/cm)	L SAMPLING / Sample port Meter Type Temp	deg C deg F Labo	Other [Turbidity (NTU)	Color / Odor Remarks Comments
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No.	E PARAMETER ME. charge photostation photosta	MEL ASUREMENTS H Cond. (mmhos/cm) Jume Analysis	L SAMPLING / Sample port Meter Type Temp	deg C deg F Labo	Other [Turbidity (NTU)	Color / Odor Remarks Comments Blank Samples
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No. QUALITY CONTROL SAMP Dupli Original Sample No.	PARAMETER ME, charge ph / Container #/Volu	MEL ASUREMENTS H Cond. (mmhos/cm) Jume Analysis	L SAMPLING / Sample port Meter Type Temp	deg C deg F Labo	Other [Turbidity (NTU)	Color / Odor Remarks Comments Blank Samples
SAMPLING METHOD Bailer - Type GROUNDWATER SAMPLI Date / Time / % Re / SAMPLING PROGRAM Sample No.	PARAMETER ME, charge ph / Container #/Volu	MEL ASUREMENTS H Cond. (mmhos/cm) Jume Analysis	L SAMPLING / Sample port Meter Type Temp	deg C deg F Labo	Other [Turbidity (NTU)	Color / Odor Remarks Comments Blank Samples

Project Name 1600 63 Style	<u> </u>	Well No.	<u> </u>		_
Project Number 3494.01		Well Type		Other temp case	bovehole
Recorded By MBH	Sampled by	WEAT	Date _	1/10/07	
	WE	LL PURGING			
PURGE VOLUME			PURGE METHOD		
Well casing diameter		·	☐Bailer \ Type		"
2-inch 4-inch Other	0.75-Inch	Ť	=	tatic Dunp	-
Well Total Depth (TD. ft. below TOC)	0 0	Ì	Other		_
Depth to Water (WL, ft. below TOC) :	4.96 bottles due		PUMP INTAKE		
Depth to free phase hydrocarbons (FP, ft. below TO	C):	een !	Near top Depth (ft)		
Number of casing volumes to be purged 4 10 XOther	bottles due	to Co f	Near Bottom Depth (ft) Other	<u>λ4'</u>	
PURGE VOLUME CALCULATION TWO	- sources and	10 Abls.			-
100000000000000000000000000000000000000	v		- gala		
Weter Column Langth Mu	X ultiplier	No. Vols	= gals CALCULATED PURGE	: VOLUME	
	•			VOLOWE	
	tiplier : 2" = 0.17, 4" = 0	.66, 6" = 1.5)	gals	I I IN AF	
	ge Rate		ACTUAL PURGE VC	LUME	
GROUNDWATER PARAMETER MEASUREME Time / Gallons	proposition -	Temp	deg C Turbidity	Color / Odor	-
Time / Gallons	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	.
1			2		
/ / N	Man	0 to t	D0.		
/			The state of		
1	. '				
1					
1			A CONTRACTOR OF THE CONTRACTOR		
1		<u> </u>			_
<u> </u>	l				
Comments during well purge	<u> </u>			-	
The second secon	7	<u> </u>	Drummed onsite	Other	
	WEL	L SAMPLING			
SAMPLING METHOD Date/Time Sa	ampled	<u>/</u>	• 	<u> </u>	. *
Bailer - Type		Sample port [Other [
GROUNDWATER SAMPLE PARAMETER M	1EASLIREMENTS	Meter Type			.
	eserce beacous come trace in the beacous contract of the first recommendation				_
Date / Time / % Recharge	pH Cond.	Temp	deg C Turbidity	Color / Odor Remarks	_
Date / Time / % Recharge	eserce beacous come trace in the beacous contract of the first recommendation		deg C Turbidity deg F (NTU)	Color / Odor Remarks	
1	pH Cond.			1	
/ / / SAMPLING PROGRAM	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
1	pH Cond. (mmhos/cm)			1	
/ / / SAMPLING PROGRAM	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
/ / / SAMPLING PROGRAM	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
/ / / SAMPLING PROGRAM	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
/ / / SAMPLING PROGRAM	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
/ / / SAMPLING PROGRAM	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
/ / / SAMPLING PROGRAM	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
/ / / SAMPLING PROGRAM	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
SAMPLING PROGRAM Sample No. Container #/Vo	pH Cond. (mmhos/cm)	Temp	deg F (NTU)	Remarks	
SAMPLING PROGRAM Sample No. Container #/Vo	pH Cond. (mmhos/cm)	Temp	deg F (NTU) Laboratory	Comments	
SAMPLING PROGRAM Sample No. Container #/Vo	pH Cond. (mmhos/cm)	Temp	deg F (NTU) Laboratory	Comments Blank Samples	
SAMPLING PROGRAM Sample No. Container #/Vo	pH Cond. (mmhos/cm)	Temp	Laboratory Type S	Comments Blank Samples	
SAMPLING PROGRAM Sample No. Container #/Vo	pH Cond. (mmhos/cm)	Temp	Laboratory Type S Trip	Comments Blank Samples	

roject Name 1600 63	1 CA. Emeryul	lle	Well No.		SB-4	
roject Number 3494.0	11 01101-101		Well Type	Monitor	Extraction Oth	er temp case
ecorded By WBH		_ _ Sampled by			Date 1	110/07
		WÉI	L PURGING			
PURGE VOLUME					METHOD	
ell casing diameter				∏Bailer \ Ty		
2-inch 4-inch	Other			Pump \ Ty		
ت ell Total Depth (TD, ft. below Te		<u> </u>		Other		
pth to Water (WL, ft. below TC pth to free phase hydrocarbons)C):	6.50	l M	PUMF	PINTAKE Depth (ft)	
mber of casing volumes to be 4 10	purged Other HVI	20thles f	00	Near Botto	m Depth (ft)	
PURGE VOLUME CALCULA	TION	· .	11		in the second	
	x	X		.= .	gals	
Water Column L	ength Multiplier	_	No. Vols	CALCL	LATED PURGE VO	LUME
otal Purge Time	(Multiplier :	2" = 0.17, 4" = 0	0.66, 6" = 1.5)		gals	
lecharge Rate	Purge Rate	• •		ACTU	JAL PURGE VOLUM	IE I
GROUNDWATER PARAMET	TER MEASUREMENTS	Meter Type				
Time / Gallons	pН	Cond.	Temp	deg C	Turbidity	Color / Odor
<u> </u>		(mmhos/cm)		deg F	(NTU)	Remarks
1	# # All A	TO)			
1.	WW	ITY		<u> </u>		
			1		44 - 50	
				* * .		
1						
1						
omments during well purge			· .			
	<u> </u>		orage/disposal	Drummed	onsite Oth	er
		WEL	L SAMPLING	ì		
SAMPLING METHOD	Date/Time Sampled		<u> 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </u>			
ailer - Type 🔲		_	Sample port		Other	
GROUNDWATER SAMPL	E PARAMETER MEASU	REMENTS	Meter Type			· · · · · · · · · · · · · · · · · · ·
Date / Time / % Re	charge pH	Cond.	Temp	deg C	Turbidity	Color / Odor
		(mmhos/cm)		deg F	(NTU)	Remarks
/	<u>/</u>	1 1	<u> </u>	* * *	<u> </u>	
SAMPLING PROGRAM	**:	·			·	
Sample No.	Container #/Volume	Analysis	Preservatives	Lat	ooratory	Comments
				<u> </u>		
			<u> </u>			
<u> </u>	<u> </u>			ļ		
		 	<u> </u>		* . *	
			tu et <u></u>		·	
QUALITY CONTROL SAMP	LES					
Dupl	icate Samples				E	Blank Samples
Original Sample No.	Duplicate San	iple No.		Type	Samp	le No.
				Trip	·	
				Rinsate		<u> </u>
readwell®	Rollo			Transfer		
	al Consultants			Other:		

Project Name 1600 630d			Well No.	TR-1		
Project Number 3494.01		-	Well Type		Extraction Oti	her
Recorded By MBH			MBH	<u> </u>		115-107
		WEI	LL PURGING			
PURGE VOLUME					METHOD	
Well casing diameter				Bailer \ Type	(activitate) sistem (and applicated application and application	ailer
X 2-inch 4-inch Other				Pump \ Typ		
Well Total Depth (TD, ft. below TOC) :	Zo, 1	_		Other		
Depth to Water (WL, ft. below TOC) :	6.2	7			INTAKE	
Depth to free phase hydrocarbons (FP, ft. be	low TOC) :			Near top	Depth (ft)	
Number of casing volumes to be purged 4 10 Other				Near Botton	m Depth (ft)	8
PURGE VOLUME CALCULATION		-		⊔ч"	·	
13.89 ×	0.17	· X	23.	_ 2	23 gals	
Water Column Length	Multiplier	- ' '	No. Vols		LATED PURGE VO	DLUME
Total Purge Time	•	2 = 0.17, 4 = 0			30 gals	
Recharge Rate	Purge Rate	Margar and St. San			AL PURGE VOLUM	<u></u>
GROUNDWATER PARAMETER MEASI		Meter Type	Hamber	10-28	mattins	, , ,
Time / Gallons	pH	Cond.	Temp	X deg C	Turbidity	Color / Odor
		(mmhos/cm)		deg F	(NTU)	Remarks
11:35 / 0	6.62	827,5	NM ORP	-138	NM/clear	none
· J		<u> </u>				
/ Malos	1 16	 				
/ Wester	Marti	MATIA	<u>V</u> 1 -			
1 1001/ 01/	1400.00	1 (0) (0	1 -1 - 2 6			
/ TOOK P.K	3	ample.	develo	pea M	11 1 4 M	alatativery
/ CIEW	- water	X 1284	<u>ouicea</u>	<u> </u>	***	·
Comments during well purge		· I			<u> </u>	
Comments during well purge		Purne water st	orage/disposal	Drummed o	onsite Oth	ner
	_		L SAMPLING			
SAMPLING METHOD Date/1	ime Sampled	7 -7	301010003100000000000000000000000000000			
Bailer - Type X terlon disposa		1/10/01	Sample port		Other Π	
GROUNDWATER SAMPLE PARAME		- REMENTS	Meter Type		00101	-
Date / Time / % Recharge	рН	Cond.	Temp	deg C	Turbidity	Color / Odor
		(mmhos/cm)	<u> </u>	deg F	(NTU)	Remarks
I = I	<u> </u>	<u></u>				
SAMPLING PROGRAM	•					
Sample No. Contain	er #/Volume	Analysis	Preservatives	Labo	oratory	Comments
		<u> </u>				
			· · · · · · · · · · · · · · · · · · ·	<u> </u>		
				ļ		
		1			<u></u>	
		_	<u> </u>		<u> </u>	
		 		1		
	Idali:		*	<u></u>		
QUALITY CONTROL SAMPLES						
i liinlicate Samn'		nla Na		T		Blank Samples
Duplicate Sampl					i Samo	ole No.
	Duplicate Sam	pie ivo.		Туре	1	
	Juplicate Sam	pie No.		Trip		
· I	· ·	pie ivo.		-		

Project Name <u>(1600 637d</u>	Street Emery	<u>vil</u> le	Well No.	TR-	2	
Project Number 3494.01			Well Type	Monitor	Extraction	Other
Recorded By MBH		Sampled by	MBH		Date	1/15/07
		WE	LL PURGING	ì		
PURGE VOLUME	25 25 Selectura de la companya de l			PURGE	METHOD	
Well casing diameter	•		**	⊠Bailer \ Tvo	e £00 voims	red w/ teflon bailer
	Other			⊠ Pump \ Tvr	e way only	ip lowered below for for
Well Total Depth (TD, ft. below TO	_			Other	Per pur	Ch toweren action 165 101
Depth to Water (WL, ft. below TOC		8.11		ш	INTAKE	
Depth to free phase hydrocarbons (FP, ft. below TOC) :	7.42]	Near top	Depth (ft)	<u> </u>
	Other due to p	resence of fp	p, grab only	Near Botton Other	n Depth (ft)	
PURGE VOLUME CALCULATI	ON				•	
	_ x	<u> </u>		_ =	gals	
Water Column Len	gth Multiplie	r ·	No. Vols	CALCU	_ATED PURG	VOLUME
Total Purge Time	(Multiplier	: 2" = 0.17, 4" = 0	0.66, 6" = 1.5)		gals	
Recharge Rate	Purge Rat	e . <u>.</u>		ACTU	AL PURGE VO	DLUME
GROUNDWATER PARAMETE	R MEASUREMENTS	Meter Type				
Time / Gallons	рН	Cond. (mmhos/cm)	Temp	≱deg C deg F	Turbidity (NTU)	Color / Odor Remarks
1	7.00	2,305	NM ORF	2=128 mV	Clear	Strong HCodov.
						<u> </u>
1						
· /				<u> </u>		
1						
						,,
1						
Comments during well purge	peri pump intal	1 70	•	_ '\'		
meter to ensure no dra	waown.		torage/disposal L SAMPLINO	Drummed o	nsite <u>b</u>	Other top in gas can
SAMPLING METHOD	Date/Time Sample	a 1/15/67	1			
Bailer - Type			Sample port		Other 7	aeri pumo
GROUNDWATER SAMPLE	PARAMETER MEASL	 JREMENTS	Meter Type	-		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Date / Time / % Rech	arge pH	Cond.	Temp	deg C	Turbidity	Color / Odor
		(mmhos/cm)	, , , , , , , , , , , , , , , , , , , ,	deg F	(NTU)	Remarks
SAMPLING PROGRAM						
Sample No.	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
					·	
			- 73			
					•	
QUALITY CONTROL SAMPLE	S			+ :		•
Duplica	te Samples					Blank Samples
Original Sample No.	Duplicate Sar	mple No.		Туре		Sample No.
				Trip		
	<u></u>			Rinsate		
Treadwell&F				Transfer		
	Consultants			Other:		

Project Name 1600 6300 St.	•	Well No.	TR -	3	
Project Number 3494.01		Well Type	Monitor	Extraction	Other
Recorded By MbH	Sample	d by MBH		Date _	1/15/07
		WELLPURGING			
PURGE VOLUME			PURGE M	IETHOD	
Well casing diameter			☐Bailer \ Type		* 0
2-inch 4-inch Other			MPump \ Type	Subvie	archale.
Well Total Depth (TD, ft. below TOC):	20.3		Other		3.7700
Depth to Water (WL, ft. below TOC):	4.85			NTAKE	
Depth to free phase hydrocarbons (FP, ft. belo		and the second	Near top	Depth (ft)	
Number of casing volumes to be purged				Depth (ft)	181
4 10 Other			Other _		
PURGE VOLUME CALCULATION	6.19				
15,45 x	0.17 x	10	-	Q gals	
Water Column Length	Multiplier	No. Vols		ATED PURGE	VOLUME
Total Purge Time35	(Multiplier $2" = 0.07, 4$		24	5 gals	
Recharge Rate	Purge Rate ±596		ACTUA	L PURGE VOL	UME
GROUNDWATER PARAMETER MEASU	REMENTS Meter T	ype <u>Horiba</u>	U-22		
Time / Gallons	pH Cond (mmhos/		Xdeg C deg F	Turbidity (NTU)	Color / Odor Remarks
10:25 / 0	6.65 280	· 1		6.16	Turbia Arrows
10:45 / 15	7,40 1,40	30,7		WARDER	Thybra Houseva
Non / 25	7.75 1.33	21.4		2/00/2011	TIMENTAL TOURINGS
/	1 111/	V1111		2:	
		the state of the state of			
/					
/					
/					
Comments during well purge	n recharge				
		ter storage/disposal	Drummed on	nsite	Other
	N	ELL SAMPLING	ì		
SAMPLING METHOD Date/Ti	me Sampled	1			
Bailer - Type	· · · · · · · · · · · · · · · · · · ·	Sample port	П	Other	
GROUNDWATER SAMPLE PARAMET	ER MEASUREMENTS	Meter Type	,		
Date / Time / % Recharge	pH Cond		deg C	Turbidity	Color / Odor
	(mmhos/	cm)	deg F	(NTU)	Remarks
Hereage detectors con concentrations are separately and the separately					
SAMPLING PROGRAM	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
Sample No. Containe	er #/Volume Analys	is Preservatives	Labo	ratory	Comments
			ļ		
			 		
	* *				
	<u> </u>				
			1	1	
QUALITY CONTROL SAMPLES	•				Plant Comples
Duplicate Sample			Tuno		Blank Samples
Original Sample No. D	uplicate Sample No.		Type	<u> </u>	ample No.
			Trip Rinsate		
Treadwell&Rolk			Transfer		
Environmental and Geotechnical Consultant	S S		Other:		
Emplorational and Goodooningal Collocitation	~		Othor.	L	

Project Name 1600 63 rd	Ī		Well No.	TR-	4	
Project Number 3494.01	<u> </u>	_	Well Type		Extraction	Other
Recorded By MBH		_ Sampled by		<u></u>	Date _	1/15/07
		WEI	LL PURGING	à		
PURGE VOLUME			-	2010/01/01/01/01/01/01/01/01/01/01/01/01/	E METHOD	
Well casing diameter	*				ype <u>Belite</u>	
2-inch 4-inch Otl		_		· =	ype Submo	ersitie
Well Total Depth (TD, ft. below TOC):	20.0	-		Other		
Depth to Water (WL, ft. below TOC): Depth to free phase hydrocarbons (FP, f	8.71	_NA		PUMI ∏Near top	IP INTAKE Depth (ft)	
Number of casing volumes to be purged				<u>-</u>	tom Depth (ft) _	18'
				Other		
PURGE VOLUME CALCULATION				· ·		
11.29	x 0.17	_ X _	10	- ⊢	9.2 gals	'
Water Column Length	Multiplier		No. Vols	CALCI	ULATED PURGE	E VOLUME
Total Purge Time	(Multiplier : 2	2" = 0.17, 4" = 0	.66, 6" = 1.5)		gals	
Recharge Rate	Purge Rate				UAL PURGE VC	DLUME
GROUNDWATER PARAMETER ME		-		68		
Time / Gallons	pН	Cond. (mmhos/cm)	Temp	Adeg C deg F	Turbidity (NTU)	Color / Odor Remarks
1:20 /	6.76	1,777	NM	1 1409	Clear	ORP = 133 / none
1145	W. 15	1	. Jalar	* * * * * * * * * * * * * * * * * * * *	Litera	CPT - 100 / INVO
/					+	,
/ <u> </u>						
1 Meter m	alfunction					
/ Qualitat	ive develo	previt.				
1 lu casi	ng Volu	mes n	emoved-			
1			<u></u>			
Comments during well purge		<u> </u>				
			torage/disposal	Drummed	onsite <u>L</u>	Other
704000000000000000000000000000000000000		WEL	L SAMPLING	3		
101.01.01.01.01.01.01.01.01.01.01.01.01.	ate/Time Sampled	/	<u>/</u>		:	<u></u>
Bailer - Type 🔀		-	Sample port	Ш.	Other	<u>l</u>
GROUNDWATER SAMPLE PARA Date / Time / % Recharge	000000000000000000000000000000000000000	000000000000000000000000000000000000000	Meter Type		Turbidity	T Color / Odor
Date / Time / /o Ficcharge	pH	Cond. (mmhos/cm)	Temp	deg C	Turbidity (NTU)	Color / Odor Remarks
.1:			<u> </u>			
SAMPLING PROGRAM						
Sample No. Co	ntainer #/Volume	Analysis	Preservatives	La	aboratory	Comments
				<u> </u>		
					<u> </u>	
			-			
			•			
			1.		<u> </u>	
QUALITY CONTROL SAMPLES						
Duplicate Sample No.				Time		Blank Samples
Original Sample No.	Duplicate Samp	ile No.		Type	+	Sample No.
				Trip	1 :	
	• • •					
Treadwell&Ro	<u> </u>			Rinsate Transfer		

Project Name 1600 6319 Street		(IIC.	Well No.	TR-9	<i>)</i>	
Project Number 3494.01	7, 0	-	Well Type			Other
Recorded By MBH		_ _ Sampled by		. .	Date _	1/15/07
		WE	LL PURGING	ı		
PURGE VOLUME	JECOBANIO PROCESSOR	<u> </u>	CONTRACTOR SALVESTORIAN CONTRACTOR		E METHOD	
Well casing diameter				Bailer \ Ty	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2-inch 4-inch Other				Pump\Ty	· . ———	
Well Total Depth (TD, ft. below TOC):	20.0	- .		Other	/ре	
Depth to Water (WL, ft. below TOC):		7.34		ш	IP INTAKE	
Depth to free phase hydrocarbons (FP, ft. bel	low TOC):	7.14	<u>.</u>	Near top	Depth (ft)	
Number of casing volumes to be purged 4	due to for	e, only grav	o sample.	Near Bott Other	tom Depth (ft)	t p:
Lucano con recommendo de de de desentación de					·	
x	· · · · · · · · · · · · · · · · · · ·	_ X		_ =	gals	
Water Column Length	Multiplier		No. Vols	CALC	ULATED PURGE	VOLUME
Total Purge Time	(Multiplier : ?	2" = 0.17, 4" = 0).66, 6" = 1.5)		gals	
Recharge Rate	Purge Rate		=		UAL PURGE VO	LUME
GROUNDWATER PARAMETER MEASU	JREMENTS	Meter Type	Myron L	68		
Time / Gallons	pН	Cond. (mmhos/cm)	Temp	deg C deg F	Turbidity (NTU)	Color / Odor Remarks
	7.33	2,004	ORP= 126		Clear	Strong HC odor
· / /		<u> </u>				— •
1		l l				
1				· · ·	<u> </u>	
/						
1				<u> </u>		
1	T					
	<u> </u>					
Comments during well purge Whate	of peri-s	nump plugo	ied through	Job Pl	ug blown o	nd. grab sample while
monitoring draw sown wi interfa	ce meler.	Purge water st	torage/disposal	Drummed	onsite	Other
			LSAMPLING			
(Standard representation of the state of the				 contraction of the first of the	A CONTRACTOR OF THE PROPERTY OF THE PARTY OF	INCOMESSAGES SERVICES
SAMPLING METHOD Date/T	ime Sampled	20000				
SAMPLING METHOD Date/T Bailer - Type	ime Sampled	1/15/07	/ 5:15	_	Other 🔀	neri aumo
		1/15/07	1 5:15			peri pump meter.
Bailer - Type 🔲		1/15/07	/ 5:15 Sample port			peri pump meter. Color/Odor
Bailer - Type GROUNDWATER SAMPLE PARAME	TER MEASUR	1/15/07 EMENTS	/ 5:15 Sample port Meter Type	_ Myr	on L bp	meter.
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / /	TER MEASUR	1/15/07 REMENTS	/ 5:15 Sample port Meter Type	Myr	Turbidity	meter. Color/Odor
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge	TER MEASUR	1/15/07 REMENTS	/ 5:15 Sample port Meter Type	Myr	Turbidity	meter. Color/Odor
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / / SAMPLING PROGRAM	TER MEASUR	1/15/07 REMENTS	/ 5:15 Sample port Meter Type	Myr deg C deg F	Turbidity	meter. Color/Odor
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM	TER MEASUR	I/15/07	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F	Turbidity (NTU)	meter. Color/Odor Remarks
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM	TER MEASUR	I/15/07	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F	Turbidity (NTU)	meter. Color/Odor Remarks
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM	TER MEASUR	I/15/07	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F	Turbidity (NTU)	meter. Color/Odor Remarks
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM	TER MEASUR	I/15/07	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F	Turbidity (NTU)	meter. Color/Odor Remarks
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM	TER MEASUR	I/15/07	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F	Turbidity (NTU)	meter. Color/Odor Remarks
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM	TER MEASUR	I/15/07	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F	Turbidity (NTU)	meter. Color/Odor Remarks
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM	TER MEASUR	I/15/07	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F	Turbidity (NTU)	meter. Color/Odor Remarks
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM Sample No. Contains OUALITY CONTROL SAMPLES	TER MEASUR pH ler #/Volume	I/15/07	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F	Turbidity (NTU)	Color/Odor Remarks Comments
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM Sample No. Contains QUALITY CONTROL SAMPLES Duplicate Sample	TER MEASUR pH her #/Volume	EMENTS Cond. (mmhos/cm) Analysis	/ 5 15 Sample port Meter Type Temp	Myr Ideg C Ideg F	Turbidity (NTU)	Color / Odor Remarks Comments Blank Samples
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM Sample No. Contains QUALITY CONTROL SAMPLES Duplicate Sample	TER MEASUR pH ler #/Volume	EMENTS Cond. (mmhos/cm) Analysis	/ 5 15 Sample port Meter Type Temp	Myr ldeg C deg F	Turbidity (NTU)	Color/Odor Remarks Comments
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM Sample No. Contains QUALITY CONTROL SAMPLES Duplicate Sample	TER MEASUR pH her #/Volume	EMENTS Cond. (mmhos/cm) Analysis	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F La	Turbidity (NTU)	Color / Odor Remarks Comments Blank Samples
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM Sample No. Containe OUALITY CONTROL SAMPLES Duplicate Sample Original Sample No. D	TER MEASUR pH her #/Volume	EMENTS Cond. (mmhos/cm) Analysis	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F Lai	Turbidity (NTU)	Color / Odor Remarks Comments Blank Samples
Bailer - Type GROUNDWATER SAMPLE PARAME Date / Time / % Recharge / / SAMPLING PROGRAM Sample No. Contains QUALITY CONTROL SAMPLES Duplicate Sample	TER MEASUR pH ler #/Volume es Duplicate Samp	EMENTS Cond. (mmhos/cm) Analysis	/ 5 15 Sample port Meter Type Temp	Myr deg C deg F La	Turbidity (NTU)	Color / Odor Remarks Comments Blank Samples

Project Name 1600 631	St., Emeryvi	lle	Well No.	MW-	2	
Project Number 3494.			Well Type	Monitor	Extraction	Other
Recorded By MBH		Sampled by	MBH		Date _	1/15/07
		WEI	LL PURGING			
PURGE VOLUME				PURGE	METHOD	
Well casing diameter					e disposab	le teffon
	Other			Pump \ Typ		-1,000
Well Total Depth (TD, ft. below TC				Other		
Depth to Water (WL, ft. below TOO Depth to free phase hydrocarbons			1	PUMP	INTAKE	
Number of casing volumes to be p	urged		ii.	\rightarrow	Depth (ft) _ n Depth (ft) _	
10 PURGE VOLUME CALCULAT	Other grab du	e to top		Other		
· · · · · · · · · · · · · · · · · · ·	_ x	×		_ =	gals	
Water Column Le	ngth Multiplie	er	No. Vols	CALCU	LATED PURGE	VOLUME
Total Purge Time	(Multiplier	: 2" = 0.17, 4" = 0	0.66, 6" = 1.5)		gals	· · · · · · · · · · · · · · · · · · ·
Recharge Rate	Purge Rat	te			AL PURGE VO	LUME
GROUNDWATER PARAMET	ER MEASUREMENTS	989998	Myron L			
Time / Gallons	pH	Cond. (mmhos/cm)	Temp	deg C deg F	Turbidity (NTU)	Color / Odor Remarks
/	7.21	1,057	ORP = 121		Clear	Strong HC odor.
1						residual App in sample
1		ψ				
						•
/						
$I = \{i_1, \dots, i_m\}$						
/						
Comments during well purge	due to excess		<u>ng wall, ha</u> torage/disposal		·	nen bail samples.
				Drummed o	onsite [2	Other gas can onsite
			L SAMPLING			
SAMPLING METHOD	Date/Time Sample	ed 1/15/0(_		
Bailer - Type 🔀			Sample port	LI MALLONIA	Other L	
GROUNDWATER SAMPLE		Cond.	Meter Type	MYYDVI I deg C	L (e f	Color / Odor
Date / Time / % Rec	harge pH	(mmhos/cm)	Temp	deg C deg F	(NTU)	Remarks
/	/					
SAMPLING PROGRAM			7			
Sample No.	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
	Container #/Volume	Analysis	Preservatives	Lab	oratory	Comments
Sample No.	ES	Analysis	Preservatives	Lab	oratory	
Sample No. OUALITY CONTROL SAMPL Duplic	ES atte Samples		Preservatives			Blank Samples
Sample No.	ES		Preservatives	Туре		
Sample No. OUALITY CONTROL SAMPL Duplic	ES atte Samples		Preservatives	Type Trip		Blank Samples
Sample No. QUALITY CONTROL SAMPL Duplic	ES atte Samples		Preservatives	Туре		Blank Samples



APPENDIX E Laboratory Analytical Report



20 March, 2007

Matt Hall Treadwell & Rollo - Oakland 501 14th Street 3rd Floor Oakland, CA 94612

RE: 1600 63rd Street, Emeryville

Work Order: MQA0437

Enclosed are the results of analyses for samples received by the laboratory on 01/11/07 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jin A

Tim Costello
Client Services Department Manager

CA ELAP Certificate # 1210

The Chain(s) of Custody, 11 pages, are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.





Treadwell & Rollo - OaklandProject:1600 63rd Street, EmeryvilleMQA0437501 14th Street 3rd FloorProject Number:3494.01Reported:Oakland CA, 94612Project Manager:Matt Hall03/20/07 17:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (6-6.5)	MQA0437-01	Soil	01/10/07 09:55	01/11/07 18:20
SB-1 (9.5-10)	MQA0437-02	Soil	01/10/07 10:00	01/11/07 18:20
SB-1 (14.5-15)	MQA0437-03	Soil	01/10/07 10:05	01/11/07 18:20
SB-1 (19.5-20)	MQA0437-04	Soil	01/10/07 10:10	01/11/07 18:20
SB-2 (6-6.5)	MQA0437-05	Soil	01/10/07 13:40	01/11/07 18:20
SB-2 (9.5-10)	MQA0437-06	Soil	01/10/07 13:45	01/11/07 18:20
SB-2 (14.5-15)	MQA0437-07	Soil	01/10/07 13:50	01/11/07 18:20
SB-2 (17-17.5)	MQA0437-08	Soil	01/10/07 13:52	01/11/07 18:20
SB-2 (19.5-20)	MQA0437-09	Soil	01/10/07 13:55	01/11/07 18:20
SB-3 (6-6.5)	MQA0437-10	Soil	01/10/07 14:25	01/11/07 18:20
SB-3 (9.5-10)	MQA0437-11	Soil	01/10/07 14:30	01/11/07 18:20
SB-3 (14.5-15)	MQA0437-12	Soil	01/10/07 14:35	01/11/07 18:20
SB-3 (17-17.5)	MQA0437-13	Soil	01/10/07 14:37	01/11/07 18:20
SB-3 (19.5-20)	MQA0437-14	Soil	01/10/07 14:40	01/11/07 18:20
SB-4 (6-6.5)	MQA0437-15	Soil	01/10/07 12:05	01/11/07 18:20
SB-4 (9.5-10)	MQA0437-16	Soil	01/10/07 12:10	01/11/07 18:20
SB-4 (14.5-15)	MQA0437-17	Soil	01/10/07 12:15	01/11/07 18:20
SB-4 (17.5-18)	MQA0437-18	Soil	01/10/07 12:17	01/11/07 18:20
SB-4 (19.5-20)	MQA0437-19	Soil	01/10/07 12:20	01/11/07 18:20
TR-1 (4.5-5)	MQA0437-20	Soil	01/09/07 09:25	01/11/07 18:20
TR-1 (8-8.5)	MQA0437-21	Soil	01/09/07 09:27	01/11/07 18:20
TR-1 (9.5-10)	MQA0437-22	Soil	01/09/07 09:30	01/11/07 18:20
TR-1 (14.5-15)	MQA0437-23	Soil	01/09/07 09:40	01/11/07 18:20
TR-1 (19.5-20)	MQA0437-24	Soil	01/09/07 09:45	01/11/07 18:20
TR-2 (4.5-5)	MQA0437-25	Soil	01/09/07 13:05	01/11/07 18:20
TR-2 (9.5-10)	MQA0437-26	Soil	01/09/07 13:10	01/11/07 18:20
TR-2 (14.5-15)	MQA0437-27	Soil	01/09/07 13:15	01/11/07 18:20
TR-2 (19.5-20)	MQA0437-28	Soil	01/09/07 13:20	01/11/07 18:20
TR-3 (4.5-5)	MQA0437-29	Soil	01/09/07 11:30	01/11/07 18:20

TestAmerica - Morgan Hill, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



Treadwell & Rollo - OaklandProject:1600 63rd Street, EmeryvilleMQA0437501 14th Street 3rd FloorProject Number:3494.01Reported:Oakland CA, 94612Project Manager:Matt Hall03/20/07 17:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TR-3 (9.5-10)	MQA0437-30	Soil	01/09/07 11:35	01/11/07 18:20
TR-3 (15-15.5)	MQA0437-31	Soil	01/09/07 11:40	01/11/07 18:20
TR-3 (19.5-20)	MQA0437-32	Soil	01/09/07 11:45	01/11/07 18:20
TR-4 (4.5-5)	MQA0437-33	Soil	01/09/07 10:25	01/11/07 18:20
TR-4 (9.5-10)	MQA0437-34	Soil	01/09/07 10:35	01/11/07 18:20
TR-4 (14.5-15)	MQA0437-35	Soil	01/09/07 10:40	01/11/07 18:20
TR-4 (19.5-20)	MQA0437-36	Soil	01/09/07 10:45	01/11/07 18:20
TR-4 (8.5-9)	MQA0437-37	Soil	01/09/07 10:37	01/11/07 18:20
TR-5 (4.5-5)	MQA0437-38	Soil	01/09/07 14:35	01/11/07 18:20
TR-5 (9.5-10)	MQA0437-39	Soil	01/09/07 14:40	01/11/07 18:20
TR-5 (14.5-15)	MQA0437-40	Soil	01/09/07 14:45	01/11/07 18:20
TR-5 (19.5-20)	MQA0437-41	Soil	01/09/07 14:50	01/11/07 18:20
SB-1	MQA0437-42	Water	01/10/07 16:10	01/11/07 18:20
SB-2	MQA0437-43	Water	01/10/07 16:45	01/11/07 18:20
SB-3	MQA0437-44	Water	01/10/07 17:30	01/11/07 18:20
SB-4	MQA0437-45	Water	01/10/07 17:15	01/11/07 18:20

Enclosed is a revision of your report of 1/26/07. The revised results were the TPH-Gas by GCMS results for samples MQA0437-02, -03, -07, -11, -13, -16, -18, -27, -39, -40, and the EPA 8260B BTEX/Oxy results for sample MQA0437-18 Please see the attached letter for more information.



Treadwell & Rollo - OaklandProject1600 63rd Street, EmeryvilleMQA0437501 14th Street 3rd FloorProject Number:3494.01Reported:Oakland CA, 94612Project Manager:Matt Hall03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica - Morgan Hill, CA

					-				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-1 (6-6.5) (MQA0437-01) Soil	Sampled: 01/10/07 09:55	Received: 01/11	eceived: 01/11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		96 %	70-120		"	"	"	"	
SB-1 (9.5-10) (MQA0437-02) Soil	Sampled: 01/10/07 10:00	Received: 01/1	1/07 18:20						
Gasoline Range Organics (C4-C12	2) 120	12	mg/kg	5	7A18020	01/18/07	01/18/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		98 %	55-13	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	60-12	0	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	45-13	0	"	"	"	"	
Surrogate: Toluene-d8		102 %	70-12	0	"	"	"	"	
SB-1 (14.5-15) (MQA0437-03) Soil	Sampled: 01/10/07 10:0	75 Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12	2) 57	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		93 %	55-13	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		147 %	60-12	0	"	"	"	"	Z^{2}
Surrogate: Dibromofluoromethane		95 %	45-13	0	"	"	"	"	
Surrogate: Toluene-d8		104 %	70-12	0	"	"	"	"	
SB-1 (19.5-20) (MQA0437-04RE1)	Soil Sampled: 01/10/07	10:10 Received	l: 01/11/07 18	3:20					
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A18003	01/18/07	01/18/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		92 %	55-13	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	60-12	0	"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	45-13	0	"	"	"	"	
Surrogate: Toluene-d8		96 %	70-12	0	"	"	"	"	



			_		-				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-2 (6-6.5) (MQA0437-05) Soil Sampled:	01/10/07 13:40	Received: 01/11	/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-135	ī	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		97 %	70-120)	"	"	"	"	
SB-2 (9.5-10) (MQA0437-06) Soil Sampled	: 01/10/07 13:45	Received: 01/1	1/07 18:20						
Gasoline Range Organics (C4-C12)	160	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		92 %	55-135	ī	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		97 %	70-120)	"	"	"	"	
SB-2 (14.5-15) (MQA0437-07) Soil Sample	d: 01/10/07 13:5	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	33	5.0	mg/kg	2	7A18020	01/18/07	01/18/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		96 %	55-135	ī	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		102 %	70-120)	"	"	"	"	
SB-2 (17-17.5) (MQA0437-08) Soil Sample	d: 01/10/07 13:5	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	1900	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		95 %	55-135	ī	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %	60-120)	"	"	"	"	Z
Surrogate: Dibromofluoromethane		91 %	45-130)	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (19.5-20) (MQA0437-09) Soil Sampled	d: 01/10/07 13:55	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	450	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		92 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		100 %	70-120		"	"	"	"	
SB-3 (6-6.5) (MQA0437-10) Soil Sampled:	01/10/07 14:25 R	eceived: 01/11	/07 18:20						
Gasoline Range Organics (C4-C12)	2500	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		90 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %	60-120		"	"	"	"	$Z\lambda$
Surrogate: Dibromofluoromethane		92 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		101 %	70-120		"	"	"	"	
SB-3 (9.5-10) (MQA0437-11) Soil Sampled:	: 01/10/07 14:30	Received: 01/1	1/07 18:20						
Gasoline Range Organics (C4-C12)	31	5.0	mg/kg	2	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		91 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-130		"	"	"	"	
Surrogate: Toluene-d8		103 %	70-120		"	"	"	"	
SB-3 (14.5-15) (MQA0437-12) Soil Sample	d: 01/10/07 14:35	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	1200	100	ug/kg	1	7A18003	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		97 %	55-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	60-120		"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	45-130		"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (17-17.5) (MQA0437-13) Soil	Sampled: 01/10/07 14:37	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	57	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		92 %	55-133	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		100 %	70-120)	"	"	"	"	
SB-3 (19.5-20) (MQA0437-14) Soil	Sampled: 01/10/07 14:40	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A16035	01/16/07	01/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		97 %	55-133	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		96 %	70-120)	"	"	"	"	
SB-4 (6-6.5) (MQA0437-15) Soil Sa	ampled: 01/10/07 12:05 R	eceived: 01/11	/07 18:20						
Gasoline Range Organics (C4-C12)	620	100	ug/kg	1	7A16035	01/16/07	01/17/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		106 %	55-133	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		99 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		95 %	70-120)	"	"	"	"	
SB-4 (9.5-10) (MQA0437-16) Soil S	Sampled: 01/10/07 12:10	Received: 01/1	1/07 18:20						
Gasoline Range Organics (C4-C12)	79	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		90 %	55-133	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8									



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (14.5-15) (MQA0437-17) Soil	Sampled: 01/10/07 12:15	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	5100	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		96 %	55-133	i	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		169 %	60-120)	"	"	"	"	ZX
Surrogate: Dibromofluoromethane		95 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		102 %	70-120)	"	"	"	"	
SB-4 (17.5-18) (MQA0437-18) Soil	Sampled: 01/10/07 12:17	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	220	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		96 %	55-133	i	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		152 %	60-120)	"	"	"	"	ZX
Surrogate: Dibromofluoromethane		94 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		103 %	70-120)	"	"	"	"	
SB-4 (19.5-20) (MQA0437-19) Soil	Sampled: 01/10/07 12:20	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	270	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		92 %	55-133	i	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		90 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		100 %	70-120)	"	"	"	"	
TR-1 (4.5-5) (MQA0437-20) Soil S	Sampled: 01/09/07 09:25 F	Received: 01/11	/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		95 %	55-133	·	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	45-130)	"	"	"	"	
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
TR-1 (8-8.5) (MQA0437-21) Soil	Sampled: 01/09/07 09:27	Received: 01/11	1/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		103 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-12	9	"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	45-13	9	"	"	"	"	
Surrogate: Toluene-d8		96 %	70-12	9	"	"	"	"	
TR-1 (9.5-10) (MQA0437-22) Soil	Sampled: 01/09/07 09:30	Received: 01/1	11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	60-120	9	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	45-13	9	"	"	"	"	
Surrogate: Toluene-d8		95 %	70-120	9	"	"	"	"	
TR-1 (14.5-15) (MQA0437-23) Soi	l Sampled: 01/09/07 09:4	0 Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		89 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	60-12	9	"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	45-130	9	"	"	"	"	
Surrogate: Toluene-d8		98 %	70-12	9	"	"	"	"	
TR-1 (19.5-20) (MQA0437-24) Soi	l Sampled: 01/09/07 09:4	5 Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		107 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	60-12	9	"	"	"	"	
Surrogate: Dibromofluoromethane		102 %	45-130	9	"	"	"	"	
Surrogate: Toluene-d8		96 %	70-12	9	"	"	"	"	



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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
TR-2 (4.5-5) (MQA0437-25) Soil	Sampled: 01/09/07 13:05	Received: 01/11	1/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		108 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	60-12	0	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	45-13	0	"	"	"	"	
Surrogate: Toluene-d8		94 %	70-12	0	"	"	"	"	
TR-2 (9.5-10) (MQA0437-26) Soil	Sampled: 01/09/07 13:10	Received: 01/1	11/07 18:20						
Gasoline Range Organics (C4-C12	2) 1400	500	ug/kg	5	7A15001	01/15/07	01/15/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		106 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	60-12	0	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	45-13	0	"	"	"	"	
Surrogate: Toluene-d8		94 %	70-12	0	"	"	"	"	
TR-2 (14.5-15) (MQA0437-27) Soi	l Sampled: 01/09/07 13:1	5 Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12	2) 82	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		101 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %	60-12	0	"	"	"	"	Z^{2}
Surrogate: Dibromofluoromethane		95 %	45-13	0	"	"	"	"	
Surrogate: Toluene-d8		104 %	70-12	0	"	"	"	"	
TR-2 (19.5-20) (MQA0437-28) Soi	l Sampled: 01/09/07 13:2	Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12	2) 3900	500	ug/kg	5	7A15001	01/15/07	01/15/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		92 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	60-12	0	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-13	0	"	"	"	"	
Surrogate: Toluene-d8		100 %	70-12	0	"	"	"	"	



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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
TR-3 (4.5-5) (MQA0437-29) Soil Sa	mpled: 01/09/07 11:30	Received: 01/11	/07 18:20						
Gasoline Range Organics (C4-C12)	1300	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		98 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		92 %	70-120)	"	"	"	"	
TR-3 (9.5-10) (MQA0437-30) Soil S	ampled: 01/09/07 11:35	Received: 01/1	1/07 18:20						
Gasoline Range Organics (C4-C12)	210	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		89 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		98 %	70-120)	"	"	"	"	
TR-3 (15-15.5) (MQA0437-31) Soil	Sampled: 01/09/07 11:4	Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12)	250	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	A-0
Surrogate: 1,2-Dichloroethane-d4		93 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		79 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		88 %	70-120)	"	"	"	"	
TR-3 (19.5-20) (MQA0437-32) Soil	Sampled: 01/09/07 11:4	S Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		92 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		95 %	70-120)	"	"	"	"	



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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
TR-4 (4.5-5) (MQA0437-33) Soil	Sampled: 01/09/07 10:25	Received: 01/11	1/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		99 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		83 %	70-120)	"	"	"	"	
TR-4 (9.5-10) (MQA0437-34) Soil	Sampled: 01/09/07 10:35	Received: 01/1	11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		94 %	70-120)	"	"	"	"	
TR-4 (14.5-15) (MQA0437-35) Soi	il Sampled: 01/09/07 10:4	Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		95 %	70-120)	"	"	"	"	
TR-4 (19.5-20) (MQA0437-36) Soi	il Sampled: 01/09/07 10:4	S Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		102 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		96 %	70-120)	"	"	"	"	



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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
TR-4 (8.5-9) (MQA0437-37) Soil	Sampled: 01/09/07 10:37	Received: 01/11	1/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		96 %	70-120)	"	"	"	"	
TR-5 (4.5-5) (MQA0437-38) Soil	Sampled: 01/09/07 14:35	Received: 01/11	1/07 18:20						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		68 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		88 %	70-120)	"	"	"	"	
TR-5 (9.5-10) (MQA0437-39) Soil	Sampled: 01/09/07 14:40	Received: 01/1	11/07 18:20						
Gasoline Range Organics (C4-C12	6.1	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		98 %	55-13:	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-120)	"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		102 %	70-120)	"	"	"	"	
TR-5 (14.5-15) (MQA0437-40) Soil	Sampled: 01/09/07 14:4	S Received: 01	/11/07 18:20						
Gasoline Range Organics (C4-C12	250	5.0	mg/kg	2	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		96 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		122 %	60-120)	"	"	"	"	$Z\lambda$
Surrogate: Dibromofluoromethane		94 %	45-130)	"	"	"	"	
Surrogate: Toluene-d8		104 %	70-120)	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-5 (19.5-20) (MQA0437-41) Soil Sampl	ed: 01/09/07 14:50	Received: 01/	11/07 18:20						
Gasoline Range Organics (C4-C12)	650	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		92 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	60-12	20	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	45-13	30	"	"	"	"	
Surrogate: Toluene-d8		99 %	70-12	20	"	"	"	"	
SB-1 (MQA0437-42) Water Sampled: 01/1	10/07 16:10 Receive	d: 01/11/07 1	8:20						
Gasoline Range Organics (C4-C12)	140000	25000	ug/l	500	7A20006	01/20/07	01/21/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		86 %	60-1-	45	"	"	"	"	
SB-2 (MQA0437-43) Water Sampled: 01/1	10/07 16:45 Receive	d: 01/11/07 1	8:20						
Gasoline Range Organics (C4-C12)	1600	100	ug/l	2	7A23020	01/23/07	01/24/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		103 %	60-14	45	"	"	"	"	
SB-3 (MQA0437-44) Water Sampled: 01/1	10/07 17:30 Receive	d: 01/11/07 1	8:20						
Gasoline Range Organics (C4-C12)	7800	2500	ug/l	50	7A20006	01/20/07	01/21/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		79 %	60-1-	45	"	"	"	"	
SB-4 (MQA0437-45) Water Sampled: 01/2	10/07 17:15 Receive	d: 01/11/07 1	8:20						
Gasoline Range Organics (C4-C12)	4800	100	ug/l	2	7A23020	01/23/07	01/24/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		93 %	60-1-	45	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (6-6.5) (MQA0437-01) Soil S	Sampled: 01/10/07 09:55 R	eceived: 01/11	/07 18:20						
Diesel Range Organics (C10-C28)	2.9	1.0	mg/kg	1	7A24006	01/24/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		95 %	40-	120	"	"	"	"	
SB-1 (9.5-10) (MQA0437-02) Soil	Sampled: 01/10/07 10:00	Received: 01/1	1/07 18:20						
Diesel Range Organics (C10-C28)	1700	100	mg/kg	100	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	40-	120	"	"	"	"	Z3
SB-1 (14.5-15) (MQA0437-03) Soil	Sampled: 01/10/07 10:05	Received: 01/	11/07 18:2	0					
Diesel Range Organics (C10-C28)	1500	100	mg/kg	100	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	40-	120	"	"	"	"	Z3
SB-1 (19.5-20) (MQA0437-04) Soil	Sampled: 01/10/07 10:10	Received: 01/	11/07 18:2	0					
Diesel Range Organics (C10-C28)	5.9	1.0	mg/kg	1	7A24006	01/24/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		104 %	40-	120	"	"	"	"	
SB-2 (6-6.5) (MQA0437-05) Soil S	Sampled: 01/10/07 13:40 R	eceived: 01/11	/07 18:20						
Diesel Range Organics (C10-C28)	2.1	1.0	mg/kg	1	7A24006	01/24/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		104 %	40-	120	"	"	"	"	
SB-2 (9.5-10) (MQA0437-06) Soil	Sampled: 01/10/07 13:45	Received: 01/1	1/07 18:20						
Diesel Range Organics (C10-C28)	98	5.0	mg/kg	5	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		135 %	40-	120	"	"	"	"	ZX
SB-2 (14.5-15) (MQA0437-07) Soil	Sampled: 01/10/07 13:50	Received: 01/	11/07 18:2	0					
Diesel Range Organics (C10-C28)	770	40	mg/kg	40	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		326 %	40-	120	"	"	"	"	ZX



Analista	Result	Reporting Limit	Units	Dilution	Batch	D	Analyzed	Method	N-4
Analyte					Ваксп	Prepared	Anaiyzed	ivietnod	Notes
SB-2 (17-17.5) (MQA0437-08) Soil	Sampled: 01/10/07 13:52	Received: 01/	11/07 18:20	1					
Diesel Range Organics (C10-C28)	340	10	mg/kg	10	7A24006	01/24/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		243 %	40-1	20	"	"	"	"	ZX
SB-2 (19.5-20) (MQA0437-09) Soil	Sampled: 01/10/07 13:55	Received: 01/	11/07 18:20						
Diesel Range Organics (C10-C28)	45	1.0	mg/kg	1	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		108 %	40-1	20	"	"	"	"	
SB-3 (6-6.5) (MQA0437-10) Soil	Sampled: 01/10/07 14:25 R	eceived: 01/11	/07 18:20						
Diesel Range Organics (C10-C28)	340	10	mg/kg	10	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		279 %	40-1	20	"	"	"	"	ZX
SB-3 (9.5-10) (MQA0437-11) Soil	Sampled: 01/10/07 14:30	Received: 01/1	1/07 18:20						
Diesel Range Organics (C10-C28)	280	10	mg/kg	10	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		237 %	40-1	20	"	"	"	"	ZX
SB-3 (14.5-15) (MQA0437-12) Soil	Sampled: 01/10/07 14:35	Received: 01/	11/07 18:20						
Diesel Range Organics (C10-C28)	18	1.0	mg/kg	1	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		116 %	40-1	20	"	"	"	"	
SB-3 (17-17.5) (MQA0437-13) Soil	Sampled: 01/10/07 14:37	Received: 01/	11/07 18:20						
Diesel Range Organics (C10-C28)	660	20	mg/kg	20	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		298 %	40-1	20	"	"	"	"	ZX
SB-3 (19.5-20) (MQA0437-14) Soil	Sampled: 01/10/07 14:40	Received: 01/	11/07 18:20						
Diesel Range Organics (C10-C28)	4.1	1.0	mg/kg	1	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		98 %	40-1	20	"	"	"	"	



		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (6-6.5) (MQA0437-15) Soil S	Sampled: 01/10/07 12:05	Received: 01/11	/07 18:20						
Diesel Range Organics (C10-C28)	240	20	mg/kg	20	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		498 %	40-1	20	"	"	"	"	ZX
SB-4 (9.5-10) (MQA0437-16) Soil	Sampled: 01/10/07 12:10	Received: 01/1	1/07 18:20						
Diesel Range Organics (C10-C28)	910	20	mg/kg	20	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		478 %	40-1	20	"	"	"	"	ZX
SB-4 (14.5-15) (MQA0437-17) Soil	Sampled: 01/10/07 12:1:	5 Received: 01/	11/07 18:20)					
Diesel Range Organics (C10-C28)	630	20	mg/kg	20	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		357 %	40-1	20	"	"	"	"	ZX
SB-4 (17.5-18) (MQA0437-18) Soil	Sampled: 01/10/07 12:1	7 Received: 01/	/11/07 18:20)					
Diesel Range Organics (C10-C28)	3800	200	mg/kg	200	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	40-1	20	"	"	"	"	Z3
SB-4 (19.5-20) (MQA0437-19) Soil	Sampled: 01/10/07 12:20	Received: 01/	/11/07 18:20)					
Diesel Range Organics (C10-C28)	44	1.0	mg/kg	1	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		122 %	40-1	20	"	"	"	"	ZX
TR-1 (4.5-5) (MQA0437-20) Soil	Sampled: 01/09/07 09:25	Received: 01/11	1/07 18:20						
Diesel Range Organics (C10-C28)	27	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		138 %	40-1	20	"	"	"	"	ZX
TR-1 (8-8.5) (MQA0437-21) Soil	Sampled: 01/09/07 09:27	Received: 01/11	1/07 18:20						
Diesel Range Organics (C10-C28)	14	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		144 %	40-1	20	"	"	"	"	ZX



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-1 (9.5-10) (MQA0437-22) Soil	Sampled: 01/09/07 09:30		11/07 18:20)		· · · · ·			
Diesel Range Organics (C10-C28)	2.8	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		93 %	40	120	"	"	"	"	
TR-1 (14.5-15) (MQA0437-23) Soil	Sampled: 01/09/07 09:40	Received: 01	/11/07 18:2	0					
Diesel Range Organics (C10-C28)	2.4	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		100 %	40	120	"	"	"	"	
TR-1 (19.5-20) (MQA0437-24) Soil	Sampled: 01/09/07 09:45	Received: 01	/11/07 18:2	0					
Diesel Range Organics (C10-C28)	2.2	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		101 %	40	120	"	"	"	"	
TR-2 (4.5-5) (MQA0437-25) Soil	Sampled: 01/09/07 13:05 F	Received: 01/11	1/07 18:20						
Diesel Range Organics (C10-C28)	10	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		113 %	40	120	"	"	"	"	
TR-2 (9.5-10) (MQA0437-26) Soil	Sampled: 01/09/07 13:10	Received: 01/1	11/07 18:20)					
Diesel Range Organics (C10-C28)	2100	100	mg/kg	100	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	40	120	"	"	"	"	Z3
TR-2 (14.5-15) (MQA0437-27) Soil	Sampled: 01/09/07 13:15	Received: 01	/11/07 18:2	0					
Diesel Range Organics (C10-C28)	4200	200	mg/kg	200	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	40	120	"	"	"	"	Z3
TR-2 (19.5-20) (MQA0437-28) Soil	Sampled: 01/09/07 13:20	Received: 01	/11/07 18:2	0					
Diesel Range Organics (C10-C28)	490	20	mg/kg	20	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		586 %	40	120	"	"	"	"	ZX



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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (4.5-5) (MQA0437-29) Soil S	Sampled: 01/09/07 11:30 R	deceived: 01/11	1/07 18:20						
Diesel Range Organics (C10-C28)	490	40	mg/kg	40	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		2353 %	40-1	20	"	"	"	"	Z3
TR-3 (9.5-10) (MQA0437-30) Soil	Sampled: 01/09/07 11:35	Received: 01/1	11/07 18:20						
Diesel Range Organics (C10-C28)	72	5.0	mg/kg	5	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		500 %	40-1	20	"	"	"	"	ZX
TR-3 (15-15.5) (MQA0437-31) Soil	Sampled: 01/09/07 11:40	Received: 01	/11/07 18:2	0					
Diesel Range Organics (C10-C28)	250	20	mg/kg	20	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		1395 %	40-1	20	"	"	"	"	ZX
TR-3 (19.5-20) (MQA0437-32) Soil	Sampled: 01/09/07 11:45	Received: 01	/11/07 18:2	0					
Diesel Range Organics (C10-C28)	11	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		122 %	40-1	20	"	"	"	"	ZX
TR-4 (4.5-5) (MQA0437-33) Soil S	Sampled: 01/09/07 10:25 R	Received: 01/11	1/07 18:20						
Diesel Range Organics (C10-C28)	7.1	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		96 %	40-1	20	"	"	"	"	
TR-4 (9.5-10) (MQA0437-34) Soil	Sampled: 01/09/07 10:35	Received: 01/1	11/07 18:20						
Diesel Range Organics (C10-C28)	4.9	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		79 %	40-1	120	"	"	"	"	
TR-4 (14.5-15) (MQA0437-35) Soil	Sampled: 01/09/07 10:40	Received: 01	/11/07 18:2	0					
Diesel Range Organics (C10-C28)	2.4	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		93 %	40-1	120	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (19.5-20) (MQA0437-36) Soil	Sampled: 01/09/07 10:45		/11/07 18:2	20		· · · · ·			
Diesel Range Organics (C10-C28)	1.3	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		92 %	40-	120	"	"	"	"	
TR-4 (8.5-9) (MQA0437-37) Soil Sa	ampled: 01/09/07 10:37 Re	eceived: 01/11	/07 18:20						
Diesel Range Organics (C10-C28)	1.3	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		87 %	40-	120	"	"	"	"	
TR-5 (4.5-5) (MQA0437-38) Soil Sa	ampled: 01/09/07 14:35 Re	eceived: 01/11	/07 18:20						
Diesel Range Organics (C10-C28)	3500	100	mg/kg	20	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		7964 %	40-	120	"	"	"	"	ZX
TR-5 (9.5-10) (MQA0437-39) Soil S	Sampled: 01/09/07 14:40 R	Received: 01/1	1/07 18:20)					
Diesel Range Organics (C10-C28)	870	50	mg/kg	50	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		623 %	40-	120	"	"	"	"	Z3
TR-5 (14.5-15) (MQA0437-40) Soil	Sampled: 01/09/07 14:45	Received: 01	/11/07 18:2	20					
Diesel Range Organics (C10-C28)	180	10	mg/kg	10	7A23027	01/23/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		67 %	40-	120	"	"	"	"	
TR-5 (19.5-20) (MQA0437-41) Soil	Sampled: 01/09/07 14:50	Received: 01	/11/07 18:2	20					
Diesel Range Organics (C10-C28)	6.8	1.0	mg/kg	1	7A23027	01/23/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		99 %	40-	120	"	"	"	"	·
SB-1 (MQA0437-42) Water Sample	ed: 01/10/07 16:10 Receive	ed: 01/11/07 1	8:20						
Diesel Range Organics (C10-C28)	73000	9600	ug/l	200	7A16006	01/16/07	01/17/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	30-	115	"	"	"	"	Z3



		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (MQA0437-43) Water Sampled: 01/1	0/07 16:45 Receive	ed: 01/11/07 1	8:20						
Diesel Range Organics (C10-C28)	33000	4800	ug/l	100	7A16006	01/16/07	01/17/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	30-	115	"	"	"	"	Z3
SB-3 (MQA0437-44) Water Sampled: 01/1	0/07 17:30 Receive	ed: 01/11/07 1	8:20						
Diesel Range Organics (C10-C28)	49000	2400	ug/l	50	7A16006	01/16/07	01/17/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		753 %	30-	115	"	"	"	"	Z3
SB-4 (MQA0437-45) Water Sampled: 01/1	0/07 17:15 Receive	ed: 01/11/07 1	8:20						
Diesel Range Organics (C10-C28)	150000	9700	ug/l	200	7A16006	01/16/07	01/18/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	30-	115	"	"	"	"	Z3



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (6-6.5) (MQA0437-01) Soil S	Sampled: 01/10/07 09:55	Received: 01/11	/07 18:20						
Lead	8.9	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-1 (9.5-10) (MQA0437-02) Soil	Sampled: 01/10/07 10:00	Received: 01/1	1/07 18:20						
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-1 (14.5-15) (MQA0437-03) Soil	Sampled: 01/10/07 10:05	Received: 01/	11/07 18:20)					
Lead	9.2	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-1 (19.5-20) (MQA0437-04) Soil	Sampled: 01/10/07 10:10	Received: 01/	11/07 18:20)					
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (6-6.5) (MQA0437-05) Soil S	Sampled: 01/10/07 13:40	Received: 01/11	/07 18:20						
Lead	6.0	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (9.5-10) (MQA0437-06) Soil	Sampled: 01/10/07 13:45	Received: 01/1	1/07 18:20						
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (14.5-15) (MQA0437-07) Soil	Sampled: 01/10/07 13:50	Received: 01/	11/07 18:20)					
Lead	5.0	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (17-17.5) (MQA0437-08) Soil	Sampled: 01/10/07 13:52	Received: 01/	11/07 18:20)					
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (19.5-20) (MQA0437-09) Soil	Sampled: 01/10/07 13:55	Received: 01/	11/07 18:20)					
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (6-6.5) (MQA0437-10) Soil Sampled	: 01/10/07 14:25 Recei	ved: 01/11	/07 18:20						
Lead	5.5	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-3 (9.5-10) (MQA0437-11) Soil Sample	d: 01/10/07 14:30 Reco	eived: 01/1	1/07 18:20						
Lead	17	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-3 (14.5-15) (MQA0437-12) Soil Sampl	led: 01/10/07 14:35 Rec	ceived: 01/	11/07 18:20)					
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-3 (17-17.5) (MQA0437-13) Soil Sampl	led: 01/10/07 14:37 Rec	ceived: 01/	11/07 18:20)					
Lead	5.0	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-3 (19.5-20) (MQA0437-14) Soil Sampl	led: 01/10/07 14:40 Rec	ceived: 01/	11/07 18:20)					
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-4 (6-6.5) (MQA0437-15) Soil Sampled	: 01/10/07 12:05 Recei	ved: 01/11	/07 18:20						
Lead	5.3	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-4 (9.5-10) (MQA0437-16) Soil Sample	d: 01/10/07 12:10 Reco	eived: 01/1	1/07 18:20						
Lead	6.2	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-4 (14.5-15) (MQA0437-17) Soil Sampl	led: 01/10/07 12:15 Rec	ceived: 01/	11/07 18:20)					
Lead	6.3	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-4 (17.5-18) (MQA0437-18) Soil Sampl	led: 01/10/07 12:17 Rec	ceived: 01/	11/07 18:20)					
Lead	6.9	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	



		Reporting			•				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (19.5-20) (MQA0437-19) Soil	Sampled: 01/10/07 12:20	Received: 01/	11/07 18:20	0					
Lead	6.0	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
TR-1 (4.5-5) (MQA0437-20) Soil S	Sampled: 01/09/07 09:25 Re	eceived: 01/11	/07 18:20						
Lead	22	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-1 (8-8.5) (MQA0437-21) Soil S	Sampled: 01/09/07 09:27 Re	eceived: 01/11	/07 18:20						
Lead	6.2	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-1 (9.5-10) (MQA0437-22) Soil	Sampled: 01/09/07 09:30 F	Received: 01/1	1/07 18:20						
Lead	11	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-1 (14.5-15) (MQA0437-23) Soil	Sampled: 01/09/07 09:40	Received: 01/	/11/07 18:2	0					
Lead	8.4	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-1 (19.5-20) (MQA0437-24) Soil	Sampled: 01/09/07 09:45	Received: 01/	/11/07 18:2	0					
Lead	12	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-2 (4.5-5) (MQA0437-25) Soil S	Sampled: 01/09/07 13:05 Re	eceived: 01/11	/07 18:20						
Lead	130	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-2 (9.5-10) (MQA0437-26) Soil	Sampled: 01/09/07 13:10 F	Received: 01/1	1/07 18:20						
Lead	6.3	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-2 (14.5-15) (MQA0437-27) Soil	Sampled: 01/09/07 13:15	Received: 01/	/11/07 18:2	0					
Lead	6.6	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	



		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-2 (19.5-20) (MQA0437-28) Soil Sa	ampled: 01/09/07 13:20	Received: 01/	11/07 18:20)					
Lead	13	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-3 (4.5-5) (MQA0437-29) Soil Sam	npled: 01/09/07 11:30 Re	eceived: 01/11	/07 18:20						
Lead	7.4	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-3 (9.5-10) (MQA0437-30) Soil Sai	mpled: 01/09/07 11:35 F	Received: 01/1	1/07 18:20						
Lead	6.8	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-3 (15-15.5) (MQA0437-31) Soil Sa	ampled: 01/09/07 11:40	Received: 01/	11/07 18:20)					
Lead	25	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-3 (19.5-20) (MQA0437-32) Soil Sa	ampled: 01/09/07 11:45	Received: 01/	11/07 18:20)					
Lead	7.0	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-4 (4.5-5) (MQA0437-33) Soil Sam	npled: 01/09/07 10:25 Re	eceived: 01/11	/07 18:20						
Lead	12	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-4 (9.5-10) (MQA0437-34) Soil Sai	mpled: 01/09/07 10:35 F	Received: 01/1	1/07 18:20						
Lead	7.8	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-4 (14.5-15) (MQA0437-35) Soil Sa	ampled: 01/09/07 10:40	Received: 01/	11/07 18:20)					
Lead	11	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-4 (19.5-20) (MQA0437-36) Soil Sa	ampled: 01/09/07 10:45	Received: 01/	11/07 18:20)					
Lead	10	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	



		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (8.5-9) (MQA0437-37) Soil Sampled:	01/09/07 10:37 Rec	eived: 01/11	/07 18:20						
Lead	ND	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-5 (4.5-5) (MQA0437-38) Soil Sampled:	01/09/07 14:35 Rec	eived: 01/11	/07 18:20						
Lead	410	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-5 (9.5-10) (MQA0437-39) Soil Sampled:	01/09/07 14:40 Re	ceived: 01/1	1/07 18:20						
Lead	ND	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-5 (14.5-15) (MQA0437-40) Soil Sampled	l: 01/09/07 14:45 R	eceived: 01	/11/07 18:2	0					
Lead	12	5.0	mg/kg	1	7A19031	01/19/07	01/23/07	EPA 6010B	
TR-5 (19.5-20) (MQA0437-41) Soil Sampled	l: 01/09/07 14:50 R	eceived: 01	/11/07 18:2	0					
Lead	12	5.0	mg/kg	1	7A19031	01/19/07	01/23/07	EPA 6010B	
SB-1 (MQA0437-42) Water Sampled: 01/10	/07 16:10 Received	: 01/11/07 1	8:20						
Lead	ND	0.10	mg/l	1	7A17033	01/17/07	01/18/07	EPA 6010B	C
SB-2 (MQA0437-43) Water Sampled: 01/10	/07 16:45 Received	: 01/11/07 1	8:20						
Lead	ND	0.10	mg/l	1	7A17033	01/17/07	01/18/07	EPA 6010B	C
SB-3 (MQA0437-44) Water Sampled: 01/10	/07 17:30 Received	: 01/11/07 1	8:20						
Lead	ND	0.10	mg/l	1	7A17033	01/17/07	01/18/07	EPA 6010B	C
SB-4 (MQA0437-45) Water Sampled: 01/10	/07 17:15 Received	: 01/11/07 1	8:20						
Lead	ND	0.10	mg/l	1	7A17033	01/17/07	01/18/07	EPA 6010B	C



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (6-6.5) (MQA0437-01) Soil	Sampled: 01/10/07 09:55	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	;	93 %	45-1	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-1	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-1	20	"	"	"	"	
SB-1 (9.5-10) (MQA0437-02) Soil	Sampled: 01/10/07 10:00	Received: 01/1	1/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	n .	
Ethylbenzene	ND	5.0	"	"	"	"	"	n .	I
Xylenes (total)	ND	5.0	"	"	"	"	"	"	I
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether Di-isopropyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND	5.0 5.0 5.0	" "	"	" "	" "	" "	" " " " " " " " " " " " " " " " " " " "	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND ND	5.0 5.0 5.0 20	" "	" "	" "	" "	" " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND	5.0 5.0 5.0 20 5.0	" " " " "	" " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND ND ND ND ND ND	5.0 5.0 5.0 20 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	11 11 11 11	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND ND ND ND ND ND	5.0 5.0 5.0 20 5.0 5.0	" " " " " " " "	30	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11	" " " " " " " " " " " " " " " " " " " "	11 11 11 11	



Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
: 01/10/07 10:05	Received: 01/	11/07 18:20						
ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
ND	5.0	"	"	"	"	"	"	
ND	5.0	"	"	"	"	"	"	
ND	5.0	"	"	"	"	"	"	
ND	5.0	"	"	"	"	"	"	
ND	5.0	"	"	"	"	"	"	
ND	5.0	"	"	"	"	"	"	
ND	5.0	"	"	"	"	"	"	
ND	20	"	"	"	"	"	"	
ND	5.0	"	"	"	"	"	"	
ND	5.0	"	"	"	"	"	"	
ND	100	"	"	"	"	"	"	
	96 %	45-13	0	"	"	"	"	
	103 %	55-13	5	"	"	"	"	
	874 %	60-12	0	"	"	"	"	ZX
: 01/10/07 10:10	Received: 01/	11/07 18:20						
ND	5.0				01/17/07			
ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
ND ND	5.0	ug/kg "	1	7A16003	01/16/07	01/16/07	EPA 8260B	
						01/16/07	EPA 8260B	
ND	5.0	"	"	"	"	"	EPA 8260B	
ND ND	5.0 5.0	"	"	"	"	"	EPA 8260B	
ND ND ND	5.0 5.0 5.0	"	" "	"	"	"	EPA 8260B	
ND ND ND ND	5.0 5.0 5.0 5.0	" "	" " "	" "	" "	"	EPA 8260B	
ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" " "	" " "	" " " " " " " " " " " " " " " " " " " "	"	EPA 8260B	
ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	"	EPA 8260B	
ND ND ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " "	" " " " " " " " " " " " " " " " " " " "	"	EPA 8260B	
ND ND ND ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 20	11 11 11 11 11	"" "" "" "" "" "" "" "" "" "" "" "" ""	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " " " " " " " " " " "	EPA 8260B	
ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "		
ND N	5.0 5.0 5.0 5.0 5.0 5.0 5.0 20 5.0	11 11 11 11 11 11 11 11 11 11 11 11 11		11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11		11 11 11 11 11 11 11 11 11 11	
ND N	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " " " " " " " "	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " " " " " " " "	
	ND N	Result Limit	Result Limit Units 101/10/07 10:05 Received: 01/11/07 18:20 ND 5.0 ug/kg ND 5.0 " ND 6.0 " ND 6.0 " ND 7.0 "	Result Limit Units Dilution 101/10/07 10:05 Received: 01/11/07 18:20 ND 5.0 ug/kg 1 ND 5.0 " " ND 6.0 " " ND 6.0 " " ND 7.0 " " ND 8.0 " ND 8.0 " ND 8.0 " ND 8.0 " ND 8.0 " ND 8.0 " ND 8.0 " ND 8.0 " ND 8.0 " ND 8.0 "	Result Limit Units Dilution Batch 1.01/10/07 10:05 Received: 01/11/07 18:20 ND 5.0 ug/kg 1 7A16003 ND 5.0 " " " ND 75.0 " " " " " " " ND 75.0 " " " " " " " " " " ND 75.0 " " " " " " " " " " " " " " " " " " "	Result Limit Units Dilution Batch Prepared : 01/10/07 10:05 Received: 01/11/07 18:20 ND 5.0 ug/kg 1 7A16003 01/16/07 ND 5.0 " " " " " ND 5.0 " " " " " " ND 5.0 " " " " " " ND 5.0 " " " " " " ND 7.0 " " " " " " 103 % 55-135 " " 874 % 60-120 " " " " : 01/10/07 10:10 Received: 01/11/07 18:20	Result Limit Units Dilution Batch Prepared Analyzed : 01/10/07 10:05 Received: 01/11/07 18:20 ND 5.0 ug/kg 1 7A16003 01/16/07 01/16/07 ND 5.0 " " " " " " " ND 5.0 " " " " " " " ND 5.0 " " " " " " " ND 5.0 " " " " " " " " ND 5.0 " " " " " " " " ND 5.0 " " " " " " " " ND 5.0 " " " " " " " " ND 5.0 " " " " " " " " " ND 5.0 " " " " " " " " " ND 5.0 " " " " " " " " " " ND 5.0 " " " " " " " " " " " ND 5.0 " " " " " " " " " " " " " " " " " " "	Result Limit Units Dilution Batch Prepared Analyzed Method



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (6-6.5) (MQA0437-05) Soil	Sampled: 01/10/07 13:40	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	45-1	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-1	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-1	20	"	"	"	"	
SB-2 (9.5-10) (MQA0437-06) Soil	Sampled: 01/10/07 13:45	Received: 01/1	1/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	n .	
Surrogate: Dibromofluoromethane	!	92 %	45-1	30	"	"	"	n .	
		00.07	1			"			
Surrogate: 1,2-Dichloroethane-d4		92 %	55-1	35	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (14.5-15) (MQA0437-07) Soil	Sampled: 01/10/07 13:50	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	45-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		854 %	60-12	0	"	"	"	"	ZX
SB-2 (17-17.5) (MQA0437-08) Soil	Sampled: 01/10/07 13:52	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	,,	
Ethylbenzene									
	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND ND	5.0 5.0	"	"	"	"	"		
•								" " " " " " " " " " " " " " " " " " " "	
Xylenes (total)	ND	5.0	"	"	"	"	"	 	
Xylenes (total) Methyl tert-butyl ether	ND ND	5.0 5.0	"	"	"	"	"		
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether	ND ND ND	5.0 5.0 5.0	"	"	" "	" "	"		
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	ND ND ND ND	5.0 5.0 5.0 5.0	" " "	" "	" "	" " "	" " "		
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0	11 11 11	" " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11	11 11 11	11 11 11 11 11	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 20	" " " " "		" " " " " " " " " " " " " " " " " " " "	" " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 20 5.0	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " "	"		
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND	5.0 5.0 5.0 5.0 5.0 20 5.0 5.0	" " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	n n n	11 11 11 11 11	" " " " " " " " " " " " " " " " " " "		
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND	5.0 5.0 5.0 5.0 5.0 20 5.0 5.0	" " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11	n n n n n n n n n n n n n n n n n n n	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (19.5-20) (MQA0437-09) Soil	Sampled: 01/10/07 13:55	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	45-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92 %	55-13	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	60-12	0	"	"	"	"	
SB-3 (6-6.5) (MQA0437-10) Soil	Sampled: 01/10/07 14:25 F	eceived: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
							"		
	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
Di-isopropyl ether									
Di-isopropyl ether Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND	5.0 5.0 20	" "	"	"	" "	" "	" " " " " " " " " " " " " " " " " " " "	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND	5.0 5.0 20 5.0	" " "	" "	" " "	" " "	" " "	11 11	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND ND ND ND ND	5.0 5.0 20 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " " " " " " " " " " " " " "	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND ND ND ND ND	5.0 5.0 20 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (9.5-10) (MQA0437-11) Soil	Sampled: 01/10/07 14:30	Received: 01/1	1/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		310 %	60-12	0	"	"	"	"	ZX
SB-3 (14.5-15) (MQA0437-12) Soil	Sampled: 01/10/07 14:35	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		92 %	45-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	60-12	0	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (17-17.5) (MQA0437-13) Soil	Sampled: 01/10/07 14:37	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	13	5.0	"	"	"	"	"	"	
Xylenes (total)	50	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	II .	
Surrogate: Dibromofluoromethane		96 %	45-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	55-13	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		246 %	60-12	0	"	"	"	"	ZX
SB-3 (19.5-20) (MQA0437-14) Soil	Sampled: 01/10/07 14:40	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16035	01/16/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether							"		
ivieniyi tert-butyi etner	ND	5.0	"	"	"	"		"	
Di-isopropyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
•									
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND	5.0 5.0 5.0	" "	"	" "	" "	" "	" "	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND ND	5.0 5.0 5.0 20	" " "	" "	" " "	" " "	" " "	11 11 11	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND ND	5.0 5.0 5.0 20 5.0	n n n	" " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND ND ND ND ND ND	5.0 5.0 5.0 20 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND ND ND ND ND ND	5.0 5.0 5.0 20 5.0 5.0	" " " " " " " " " " " " " " " " " " " "		11 11 11 11	11 11 11 11	" " " " " " " " " " " " " " " " " " " "	"" "" "" "" "" "" "" "" "" "" "" "" ""	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (6-6.5) (MQA0437-15) Soil	Sampled: 01/10/07 12:05	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A16035	01/16/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	?	99 %	45-13	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	60-12	20	"	"	"	"	
SB-4 (9.5-10) (MQA0437-16) Soil	Sampled: 01/10/07 12:10	Received: 01/1	1/07 18:20						
Benzene									
Delizelle	ND	5.0	ug/kg	1	7A16035	01/16/07	01/17/07	EPA 8260B	
Toluene	ND ND	5.0 5.0	ug/kg "	1	7A16035	01/16/07	01/17/07	EPA 8260B	
							01/17/07		
Toluene	ND	5.0	"	"	"	"	"	"	
Toluene Ethylbenzene	ND ND	5.0 5.0	"	"	"	"	"	n n	
Toluene Ethylbenzene Xylenes (total)	ND ND ND	5.0 5.0 5.0	"	"	"	"	" "	" "	
Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether	ND ND ND ND	5.0 5.0 5.0 5.0	" "	" "	" "	" "	"	11 11 11	
Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether	ND ND ND ND	5.0 5.0 5.0 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" " "	" " "	" " "	" " "	" " " " "	
Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " "	
Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0	" " " " " " " " " " " " " " " " " " " "	" " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " "	" " " " " " "	
Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 20	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " "	" " " " " " " " " " "	
Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	11 11 11 11 11	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " " " "	" " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " "	
Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND N	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " " " "	" " " " " " " " " " " " "	" " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11	
Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND N	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	11 11 11 11 11 11 11 11 11 11 11 11 11	"""""""""""""""""""""""""""""""""""""""	" " " " " " " " " " " " " " "	" " " " " " " " " " " " " " "	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " " " " " " " "	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (14.5-15) (MQA0437-17) Soil	Sampled: 01/10/07 12:15	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A17005	01/17/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	45-130)	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-135	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		169 %	60-120)	"	"	"	"	ZX
SB-4 (17.5-18) (MQA0437-18) Soil	Sampled: 01/10/07 12:17	Received: 01/	11/07 18:20						
Benzene	ND	0.050	mg/kg	1	7A18020	01/18/07	01/18/07	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
Xylenes (total)	ND	0.050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.025	"	"	"	"	"	n .	
Di-isopropyl ether	ND	0.025	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.025	"	"	"	"	"	n .	
tert-Amyl methyl ether	ND	0.025	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.025	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.025	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	45-130)	"	"	"	"	
				_	,,	,,	"	"	
Surrogate: 1,2-Dichloroethane-d4		96 %	55-135	,	"				
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8		96 % 103 %	55-135 70-120		"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (19.5-20) (MQA0437-19) Soil	Sampled: 01/10/07 12:20	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A17005	01/17/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		90 %	45-13	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	60-12	20	"	"	"	"	
TR-1 (4.5-5) (MQA0437-20) Soil S	Sampled: 01/09/07 09:25 B	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	n .	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	45-13	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82 %	60-12	20	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-1 (8-8.5) (MQA0437-21) Soil	Sampled: 01/09/07 09:27	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	45-13	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-12	20	"	"	"	"	
TR-1 (9.5-10) (MQA0437-22) Soil	Sampled: 01/09/07 09:30	Received: 01/1	1/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	45-13	80	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	60-12	20	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-1 (14.5-15) (MQA0437-23) Soil	Sampled: 01/09/07 09:40	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A17005	01/17/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	45-13	80	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94 %	60-12	20	"	"	"	"	
TR-1 (19.5-20) (MQA0437-24) Soil	Sampled: 01/09/07 09:45	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Xylenes (total) Methyl tert-butyl ether	ND ND	5.0 5.0	"	"	"	"	"	" "	
• • •									
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether Di-isopropyl ether	ND ND	5.0 5.0	"	"	"	"	"	n n	
Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	ND ND ND	5.0 5.0 5.0	" "	"	" "	" "	" "	" " "	
Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND ND	5.0 5.0 5.0 5.0	" " "	" "	" " "	" "	" " "	11 11 11	
Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND ND ND	5.0 5.0 5.0 5.0 20	" " " " "	" " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " "	" " " " " " " " " " " " " " " " " " " "	
Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 20 5.0	" " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	
Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 20 5.0	" " " " " " " " " " " " " " " " " " " "	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	"	
Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 20 5.0 5.0	11 11 11 11	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	n n n	" " " " " " " " " " " " " " " " " " " "	"" "" "" "" "" "" "" "" "" "" "" "" ""	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-2 (4.5-5) (MQA0437-25) Soil	Sampled: 01/09/07 13:05	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		100 %	45-1	30	"	"	"	"	
$Surrogate: 1, 2\hbox{-}Dichloroethane-d4$		108 %	55-1	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	60-1	20	"	"	"	"	
TR-2 (9.5-10) (MQA0437-26) Soil	l Sampled: 01/09/07 13:10	Received: 01/1	1/07 18:20						
TR-2 (9.5-10) (MQA0437-26) Soil Benzene	ND	25 Received: 01/1	1/07 18:20 ug/kg	5	7A15001	01/15/07	01/15/07	EPA 8260B	
					7A15001	01/15/07	01/15/07	EPA 8260B	
Benzene	ND	25	ug/kg	5			01/15/07		
Benzene Toluene	ND ND	25 25	ug/kg	5	"	"	"	"	
Benzene Toluene Ethylbenzene	ND ND ND	25 25 25	ug/kg "	5	"	"	"	n n	
Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	25 25 25 25 25	ug/kg " "	5	"	"	" "	" "	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether	ND ND ND ND ND	25 25 25 25 25 25	ug/kg " " "	5	" "	" "	" "	11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether	ND ND ND ND ND ND	25 25 25 25 25 25 25	ug/kg " " " "	5	" "	" " "	" " " "	11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	ND ND ND ND ND ND	25 25 25 25 25 25 25 25 25	ug/kg " " " "	5	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " "	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND ND ND ND ND	25 25 25 25 25 25 25 25 25 25	ug/kg " " " "	5	" " " " " " " " " " " " " " " " " " " "	" " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND	25 25 25 25 25 25 25 25 25 25	ug/kg " " " " "	5	" " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND N	25 25 25 25 25 25 25 25 25 25 25 25 25	ug/kg " " " " " "	5	" " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND N	25 25 25 25 25 25 25 25 25 25 25 25 25 2	ug/kg " " " " " "	5	" " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	"" "" "" "" "" "" "" "" "" "" "" "" ""	11 11 11 11 11 11 11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND N	25 25 25 25 25 25 25 25 25 100 25 25 25	ug/kg " " " " " " "	5 " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	"""""""""""""""""""""""""""""""""""""""	11 11 11 11 11 11 11 11 11	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-2 (14.5-15) (MQA0437-27) Soil	Sampled: 01/09/07 13:15	Received: 01/	/11/07 18:20)					
Benzene	ND	25	ug/kg	5	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	45-1.	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-1.	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98 %	60-1.	20	"	"	"	"	
TR-2 (19.5-20) (MQA0437-28) Soil	Sampled: 01/09/07 13:20	Received: 01/	/11/07 18:20)					
Benzene	ND	25	ug/kg	5	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-1.	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		92 %	55-1.	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	60-1.	20	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (4.5-5) (MQA0437-29) Soil	Sampled: 01/09/07 11:30	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94 %	45-13	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	60-12	20	"	"	"	"	
TR-3 (9.5-10) (MQA0437-30) Soil	Sampled: 01/09/07 11:35	Received: 01/1	1/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	45-13	80	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96 %	60-12	20	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (15-15.5) (MQA0437-31) Soil	Sampled: 01/09/07 11:40	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	45-13	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93 %	55-13	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		79 %	60-12	20	"	"	"	"	
TR-3 (19.5-20) (MQA0437-32) Soil	Sampled: 01/09/07 11:45	Received: 01/	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethanor				• •	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-13	30	"	,,	"	"	
		93 % 92 %	45-13 55-13		"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (4.5-5) (MQA0437-33) Soil	Sampled: 01/09/07 10:25	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	II .	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	II .	
tert-Butyl alcohol	ND	20	"	"	"	"	"	II .	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	II .	
Ethanol	ND	100	"	"	"	"	"	II .	
Surrogate: Dibromofluoromethane		96 %	45-13	0	"	"	"	"	
$Surrogate: 1, 2\hbox{-}Dichloroethane-d4$		99 %	55-13	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-12	0	"	"	"	"	
TR-4 (9.5-10) (MQA0437-34) Soil	l Sampled: 01/09/07 10:35	Received: 01/1	1/07 18:20						
TR-4 (9.5-10) (MQA0437-34) Soil Benzene	ND	5 Received: 01/1	1/07 18:20 ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
				1 "	7A15017	01/15/07	01/16/07	EPA 8260B	
Benzene	ND	5.0	ug/kg				01/16/07		
Benzene Toluene	ND ND	5.0 5.0	ug/kg	"	"	"	"	"	
Benzene Toluene Ethylbenzene	ND ND ND	5.0 5.0 5.0	ug/kg "	"	"	"	"	"	
Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	5.0 5.0 5.0 5.0	ug/kg " "	"	"	"	" "	" "	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether	ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0	ug/kg " " "	" " "	" "	" "	"	11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0	ug/kg " " " "	" " "	" " "	" " "	" " "	11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0	ug/kg " " " "	" " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	ug/kg " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " "	11 11 11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	ug/kg	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " "	11 11 11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND N	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 20	ug/kg	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND N	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	ug/kg		" " " " " " " " " " "	" " " " " " " " " " " " "	" " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11	
Benzene Toluene Ethylbenzene Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND N	5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	ug/kg " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " "	" " " " " " " " " " " " " " "	"" "" "" "" "" "" "" "" "" "" "" "" ""	11 11 11 11 11 11 11 11 11 11	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (14.5-15) (MQA0437-35) Soil	Sampled: 01/09/07 10:40	Received: 01/	/11/07 18:20)					
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	45-1.	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-1.	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-12	20	"	"	"	"	
TR-4 (19.5-20) (MQA0437-36) Soil	Sampled: 01/09/07 10:45	Received: 01/	/11/07 18:20)					
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		95 %	45-1.	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	55-1.	35	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	60-12	20	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (8.5-9) (MQA0437-37) Soil	Sampled: 01/09/07 10:37	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	45-130	9	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	55-13.	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87 %	60-12	9	"	"	"	"	
TR-5 (4.5-5) (MQA0437-38) Soil	Sampled: 01/09/07 14:35	Received: 01/11	/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A17005	01/17/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	n .	
Ethylbenzene	ND	5.0				"	"		
. ,	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
•								" "	
Xylenes (total)	ND	5.0	"	"	"	"	"	" " " " " " " " " " " " " " " " " " " "	
Xylenes (total) Methyl tert-butyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether	ND ND ND	5.0 5.0 5.0	"	"	" "	" "	" "	n n	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	ND ND ND ND	5.0 5.0 5.0 5.0	" " "	" " "	" "	" " "	" " " "	" "	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0	" " " "	" " " "	" "	" " " " "	" " " " "	11 11 11	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 20	" " " " "	" " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND ND ND	5.0 5.0 5.0 5.0 5.0 20 5.0	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND	5.0 5.0 5.0 5.0 5.0 20 5.0	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND	5.0 5.0 5.0 5.0 5.0 20 5.0 5.0		" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-5 (9.5-10) (MQA0437-39) Soil	Sampled: 01/09/07 14:40	Received: 01/1	11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	45-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %	55-13	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		266 %	60-12	0	"	"	"	"	ZX
TR-5 (14.5-15) (MQA0437-40) Soil	Sampled: 01/09/07 14:45	Received: 01/	/11/07 18:20						
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97 %	45-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		105 %	55-13	5	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		484 %	60-12	0	"	"	"	"	ZX



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-5 (19.5-20) (MQA0437-41) Soil	Sampled: 01/09/07 14:50	Received: 01/	11/07 18:2	0					
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		93 %	45-	130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94 %	55-	135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	60-	120	"	"	"	"	
SB-1 (MQA0437-42) Water Samp	oled: 01/10/07 16:10 Receiv	ed: 01/11/07 1	8:20						RL3
Benzene	ND	250	ug/l	500	7A20006	01/20/07	01/21/07	EPA 8260B	
Toluene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	,,	"	"	,,		
Luiyiociizciic	ND	250	"	"	"	"		"	
3	ND ND	250 250	"	"	"	"	"	"	
Xylenes (total) Methyl tert-butyl ether							"	" "	
Xylenes (total) Methyl tert-butyl ether	ND	250	"	"	"	"	" "	" " " "	
Xylenes (total)	ND ND	250 250	"	"	"	"	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether	ND ND ND	250 250 250	" "	"	"	" "	" " " " " " " " " " " " " " " " " " " "	" " " " " "	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	ND ND ND ND	250 250 250 250	" "	" "	" "	" " "	" " "	" " " " " " " "	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND ND ND	250 250 250 250 250 250	" " " "	" " " "	" " " " " " " " " " " " " " " " " " " "	" " " " "	11 11 11	" " " "	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND ND ND ND	250 250 250 250 250 250 10000	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " "	11 11 11	n n n	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND ND ND ND	250 250 250 250 250 250 10000 250	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " "	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND	250 250 250 250 250 250 10000 250 250	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	n n n	11 11 11 11 11	" " " " " " " " " "	n n n n n n n n n n n n n n n n n n n	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND	250 250 250 250 250 250 10000 250 250 50000		" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11	11 11 11 11 11	"" "" "" "" "" "" "" "" "" "" "" "" ""	11 11 11 11 11	
Xylenes (total) Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol Surrogate: Dibromofluoromethane	ND	250 250 250 250 250 250 10000 250 250 50000	75	" " " " " " " 130	" " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11 11 11 11	11 11 11 11 11	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (MQA0437-43) Water Sampled: 01/									RL
					7.4.22.02.0	01/22/07	01/24/07	EB4 02(0B	KL
Benzene Toluene	ND ND	1.0 1.0	ug/l	2	7A23020	01/23/07	01/24/07	EPA 8260B	
Ethylbenzene	ND ND	1.0	"	,,	,,	"	,,	"	
Xylenes (total)	ND ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	,,	"	"	"	
Di-isopropyl ether	7.4	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
1,2-Dichloroethane	1.1	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	n .	
Surrogate: Dibromofluoromethane		100 %	75-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-14	5	"	"	"	"	
Surrogate: Toluene-d8		97 %	70-13	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		125 %	60-12	0	"	"	"	"	Z
SB-3 (MQA0437-44) Water Sampled: 01/	/10/07 17:30 Receive	ed: 01/11/07 1	8:20						RL
Benzene	ND	5.0	ug/l	10	7A23020	01/23/07	01/24/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	n .	
Xylenes (total)	13	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	6.3	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	n .	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98 %	75-13	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90 %	60-14	5	"	"	"	"	
Surrogate: Toluene-d8		103 %	70-13	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91 %	60-12		,,		,,	"	



Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (MQA0437-45) Water	Sampled: 01/10/07 17:15 Re	ceived: 01/11/07 1	8:20						RL2
Benzene	ND	1.0	ug/l	2	7A23020	01/23/07	01/24/07	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	2.6	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromet	hane	96 %	75	-130	"	"	"	"	
Surrogate: 1,2-Dichloroethane	e-d4	93 %	60	145	"	"	"	"	
Surrogate: Toluene-d8		100 %	70	-130	"	"	"	"	
Surrogate: 4-Bromofluorobenz	zene	109 %	60	-120	"	"	"	"	

RPD



Treadwell & Rollo - OaklandProject1600 63rd Street, EmeryvilleMQA0437501 14th Street 3rd FloorProject Number:3494.01Reported:Oakland CA, 94612Project Manager:Matt Hall03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

Spike

Source

Reporting

		Reporting		Spike	Source		70KEC		KFD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A15001 - EPA 5030B P/T / LUFT (GCMS									
Blank (7A15001-BLK1)				Prepared &	Analyzed:	01/15/07				
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	5.24		"	5.00		105	55-135			
Surrogate: 4-Bromofluorobenzene	4.44		"	5.00		89	60-120			
Surrogate: Dibromofluoromethane	4.74		"	5.00		95	45-130			
Surrogate: Toluene-d8	4.80		"	5.00		96	70-120			
Laboratory Control Sample (7A15001-BS2)				Prepared &	Analyzed:	01/15/07				
Gasoline Range Organics (C4-C12)	759	100	ug/kg	1000		76	75-140			
Surrogate: 1,2-Dichloroethane-d4	5.00		"	5.00		100	55-135			
Surrogate: 4-Bromofluorobenzene	5.08		"	5.00		102	60-120			
Surrogate: Dibromofluoromethane	4.76		"	5.00		95	45-130			
Surrogate: Toluene-d8	5.04		"	5.00		101	70-120			
Laboratory Control Sample Dup (7A15001-BS	5D2)			Prepared &	Analyzed:	01/15/07				
Gasoline Range Organics (C4-C12)	805	100	ug/kg	1000		80	75-140	6	35	
Surrogate: 1,2-Dichloroethane-d4	4.98		"	5.00		100	55-135			
Surrogate: 4-Bromofluorobenzene	5.22		"	5.00		104	60-120			
Surrogate: Dibromofluoromethane	4.58		"	5.00		92	45-130			
Surrogate: Toluene-d8	5.08		"	5.00		102	70-120			
Batch 7A15017 - EPA 5030B P/T / LUFT	GCMS									
Blank (7A15017-BLK1)				Prepared &	z Analyzed:	01/15/07	_	_		
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	4.74		"	5.00		95	55-135			
Surrogate: 4-Bromofluorobenzene	4.62		"	5.00		92	60-120			
Surrogate: Dibromofluoromethane	4.58		"	5.00		92	45-130			
Surrogate: Toluene-d8	4.78		"	5.00		96	70-120			

%REC



Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A15017 - EPA 5030B P/T / LUFT G	CMS									
Laboratory Control Sample (7A15017-BS2)				Prepared &	Analyzed:	01/15/07				
Gasoline Range Organics (C4-C12)	821	100	ug/kg	1000		82	75-140			
Surrogate: 1,2-Dichloroethane-d4	4.88		"	5.00		98	55-135			
Surrogate: 4-Bromofluorobenzene	5.04		"	5.00		101	60-120			
Surrogate: Dibromofluoromethane	4.68		"	5.00		94	45-130			
Surrogate: Toluene-d8	4.96		"	5.00		99	70-120			
Laboratory Control Sample Dup (7A15017-BSD	2)			Prepared &	Analyzed:	01/15/07				
Gasoline Range Organics (C4-C12)	868	100	ug/kg	1000		87	75-140	6	35	
Surrogate: 1,2-Dichloroethane-d4	4.94		"	5.00		99	55-135			
Surrogate: 4-Bromofluorobenzene	5.18		"	5.00		104	60-120			
Surrogate: Dibromofluoromethane	4.72		"	5.00		94	45-130			
Surrogate: Toluene-d8	5.04		"	5.00		101	70-120			
Batch 7A16003 - EPA 5030B P/T / LUFT G	CMS									
Blank (7A16003-BLK1)				Prepared &	Analyzed:	01/16/07				
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	4.90		"	5.00		98	55-135			
Surrogate: 4-Bromofluorobenzene	4.72		"	5.00		94	60-120			
Surrogate: Dibromofluoromethane	4.68		"	5.00		94	45-130			
Surrogate: Toluene-d8	4.84		"	5.00		97	70-120			
Laboratory Control Sample (7A16003-BS2)				Prepared &	Analyzed:	01/16/07				
Gasoline Range Organics (C4-C12)	827	100	ug/kg	1000		83	75-140			
Surrogate: 1,2-Dichloroethane-d4	4.74		"	5.00		95	55-135			
Surrogate: 4-Bromofluorobenzene	5.02		"	5.00		100	60-120			
Surrogate: Dibromofluoromethane	4.74		"	5.00		95	45-130			
Surrogate: Toluene-d8	5.00		"	5.00		100	70-120			



Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A16003 - EPA 5030B P/T / LUFT	GCMS									
Laboratory Control Sample Dup (7A16003-B	SD2)			Prepared &	Analyzed:	01/16/07				
Gasoline Range Organics (C4-C12)	884	100	ug/kg	1000		88	75-140	7	35	
Surrogate: 1,2-Dichloroethane-d4	4.82		"	5.00		96	55-135			
Surrogate: 4-Bromofluorobenzene	5.00		"	5.00		100	60-120			
Surrogate: Dibromofluoromethane	4.72		"	5.00		94	45-130			
Surrogate: Toluene-d8	4.96		"	5.00		99	70-120			
Batch 7A16035 - EPA 5030B P/T / LUFT	GCMS									
Blank (7A16035-BLK1)				Prepared &	Analyzed:	01/16/07				
Gasoline Range Organics (C4-C12)	ND	100	ug/kg			<u> </u>	<u> </u>			
Surrogate: 1,2-Dichloroethane-d4	4.66		"	5.00		93	55-135			
Surrogate: 4-Bromofluorobenzene	4.72		"	5.00		94	60-120			
Surrogate: Dibromofluoromethane	4.82		"	5.00		96	45-130			
Surrogate: Toluene-d8	4.84		"	5.00		97	70-120			
Laboratory Control Sample (7A16035-BS2)				Prepared &	Analyzed:	01/16/07				
Gasoline Range Organics (C4-C12)	982	100	ug/kg	1000		98	75-140			
Surrogate: 1,2-Dichloroethane-d4	4.80		"	5.00		96	55-135			
Surrogate: 4-Bromofluorobenzene	5.52		"	5.00		110	60-120			
Surrogate: Dibromofluoromethane	4.72		"	5.00		94	45-130			
Surrogate: Toluene-d8	5.10		"	5.00		102	70-120			
Laboratory Control Sample Dup (7A16035-B	SD2)			Prepared &	Analyzed:	01/16/07				
Gasoline Range Organics (C4-C12)	884	100	ug/kg	1000		88	75-140	11	35	
Surrogate: 1,2-Dichloroethane-d4	5.00		"	5.00		100	55-135			
Surrogate: 4-Bromofluorobenzene	5.08		"	5.00		102	60-120			
Surrogate: Dibromofluoromethane	4.72		"	5.00		94	45-130			
Surrogate: Toluene-d8	5.10		"	5.00		102	70-120			

RPD



Treadwell & Rollo - OaklandProject1600 63rd Street, EmeryvilleMQA0437501 14th Street 3rd FloorProject Number:3494.01Reported:Oakland CA, 94612Project Manager:Matt Hall03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

Spike

Source

Reporting

		Reporting		Spike	Source		70KEC		KFD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A17005 - EPA 5030B P/T / LUFT 0	GCMS									
Blank (7A17005-BLK1)				Prepared &	Analyzed:	01/17/07				
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	4.90		"	5.00		98	55-135			
Surrogate: 4-Bromofluorobenzene	4.64		"	5.00		93	60-120			
Surrogate: Dibromofluoromethane	4.72		"	5.00		94	45-130			
Surrogate: Toluene-d8	4.82		"	5.00		96	70-120			
Laboratory Control Sample (7A17005-BS2)				Prepared &	Analyzed:	01/17/07				
Gasoline Range Organics (C4-C12)	918	100	ug/kg	1000		92	75-140			
Surrogate: 1,2-Dichloroethane-d4	4.96		"	5.00		99	55-135			
Surrogate: 4-Bromofluorobenzene	5.06		"	5.00		101	60-120			
Surrogate: Dibromofluoromethane	4.94		"	5.00		99	45-130			
Surrogate: Toluene-d8	5.08		"	5.00		102	70-120			
Laboratory Control Sample Dup (7A17005-BSI	D2)			Prepared &	Analyzed:	01/17/07				
Gasoline Range Organics (C4-C12)	924	100	ug/kg	1000		92	75-140	0.7	35	
Surrogate: 1,2-Dichloroethane-d4	4.76		"	5.00		95	55-135			
Surrogate: 4-Bromofluorobenzene	5.32		"	5.00		106	60-120			
Surrogate: Dibromofluoromethane	4.72		"	5.00		94	45-130			
Surrogate: Toluene-d8	5.04		"	5.00		101	70-120			
Batch 7A18003 - EPA 5030B P/T / LUFT 0	GCMS									
Blank (7A18003-BLK1)			_	Prepared &	z Analyzed:	01/18/07		_		
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	4.98		"	5.00		100	55-135			
Surrogate: 4-Bromofluorobenzene	4.76		"	5.00		95	60-120			
Surrogate: Dibromofluoromethane	4.76		"	5.00		95	45-130			
Surrogate: Toluene-d8	4.92		"	5.00		98	70-120			

%REC



Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A18003 - EPA 5030B P/T / LU	FT GCMS									
Laboratory Control Sample (7A18003-BS	2)			Prepared &	Analyzed:	01/18/07				
Gasoline Range Organics (C4-C12)	816	100	ug/kg	1000		82	75-140			·
Surrogate: 1,2-Dichloroethane-d4	4.84		"	5.00		97	55-135			
Surrogate: 4-Bromofluorobenzene	5.04		"	5.00		101	60-120			
Surrogate: Dibromofluoromethane	4.78		"	5.00		96	45-130			
Surrogate: Toluene-d8	5.00		"	5.00		100	70-120			
Laboratory Control Sample Dup (7A1800	3-BSD2)			Prepared &	Analyzed:	01/18/07				
Gasoline Range Organics (C4-C12)	823	100	ug/kg	1000		82	75-140	0.9	35	
Surrogate: 1,2-Dichloroethane-d4	5.10		"	5.00		102	55-135			
Surrogate: 4-Bromofluorobenzene	5.04		"	5.00		101	60-120			
Surrogate: Dibromofluoromethane	4.74		"	5.00		95	45-130			
Surrogate: Toluene-d8	5.00		"	5.00		100	70-120			
Batch 7A18020 - EPA 5030B/5035A M	IeOH / LUFT GCM	1S								
Blank (7A18020-BLK1)				Prepared &	Analyzed:	01/18/07				
Gasoline Range Organics (C4-C12)	ND	2.5	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.00232		"	0.00250		93	55-135			
Surrogate: 4-Bromofluorobenzene	0.00239		"	0.00250		96	60-120			
Surrogate: Dibromofluoromethane	0.00231		"	0.00250		92	45-130			
Surrogate: Toluene-d8	0.00246		"	0.00250		98	70-120			
Laboratory Control Sample (7A18020-BS	2)			Prepared: 0	1/18/07 Aı	nalyzed: 01	/19/07			
Gasoline Range Organics (C4-C12)	42.5	2.5	mg/kg	40.0		106	75-140			
Surrogate: 1,2-Dichloroethane-d4	0.00241		"	0.00250		96	55-135			
Surrogate: 4-Bromofluorobenzene	0.00266		"	0.00250		106	60-120			
Surrogate: Dibromofluoromethane	0.00238		"	0.00250		95	45-130			
Surrogate: Toluene-d8	0.00252		"	0.00250		101	70-120			



Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

			1,10	- 8						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A18020 - EPA 5030B/5035A MeO	H / LUFT GCN	MS								
Laboratory Control Sample Dup (7A18020-BS	SD2)			Prepared: 0	1/18/07 A	nalyzed: 01	/19/07			
Gasoline Range Organics (C4-C12)	39.8	2.5	mg/kg	40.0		100	75-140	7	35	
Surrogate: 1,2-Dichloroethane-d4	0.00242		"	0.00250		97	55-135			
Surrogate: 4-Bromofluorobenzene	0.00266		"	0.00250		106	60-120			
Surrogate: Dibromofluoromethane	0.00236		"	0.00250		94	45-130			
Surrogate: Toluene-d8	0.00257		"	0.00250		103	70-120			
Batch 7A20006 - EPA 5030B P/T / LUFT	GCMS									
Blank (7A20006-BLK1)				Prepared &	Analyzed	01/20/07				
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.06		"	2.50		82	60-145			
Laboratory Control Sample (7A20006-BS2)				Prepared &	Analyzed:	01/20/07				
Gasoline Range Organics (C4-C12)	370	50	ug/l	500		74	75-140			I
Surrogate: 1,2-Dichloroethane-d4	2.17		"	2.50		87	60-145			
Laboratory Control Sample Dup (7A20006-BS	SD2)			Prepared &	Analyzed:	01/20/07				
Gasoline Range Organics (C4-C12)	380	50	ug/l	500		76	75-140	3	20	
Surrogate: 1,2-Dichloroethane-d4	2.20		"	2.50		88	60-145			
Batch 7A23020 - EPA 5030B P/T / LUFT	GCMS									
Blank (7A23020-BLK1)				Prepared: 0	1/23/07 A	nalyzed: 01	/24/07			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	2.20		"	2.50		88	60-145			

RPD



Treadwell & Rollo - OaklandProject1600 63rd Street, EmeryvilleMQA0437501 14th Street 3rd FloorProject Number:3494.01Reported:Oakland CA, 94612Project Manager:Matt Hall03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

Spike

Source

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A23020 - EPA 5030B P/T / LU	FT GCMS									
Laboratory Control Sample (7A23020-BS2	2)			Prepared &	& Analyzed:	01/23/07				
Gasoline Range Organics (C4-C12)	410	50	ug/l	500		82	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.30		"	2.50		92	60-145			
Laboratory Control Sample Dup (7A23020	0-BSD2)			Prepared &	& Analyzed:	01/23/07				
Gasoline Range Organics (C4-C12)	446	50	ug/l	500		89	75-140	8	20	
Surrogate: 1.2-Dichloroethane-d4	2.38		"	2.50		9.5	60-145			

%REC



Extractable Hydrocarbons by EPA 8015B - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A16006 - EPA 3510C / EPA 8015B-	-SVOA									
Blank (7A16006-BLK1)			_	Prepared &	Analyzed:	01/16/07		_	_	_
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	38.6		"	50.0		77	30-115			
Laboratory Control Sample (7A16006-BS1)				Prepared &	Analyzed:	01/16/07				
Diesel Range Organics (C10-C28)	306	50	ug/l	500		61	40-140			_
Surrogate: n-Octacosane	34.2		"	50.0		68	30-115		_	
Laboratory Control Sample Dup (7A16006-BSI	D1)			Prepared &	Analyzed:	01/16/07	_	_	_	_
Diesel Range Organics (C10-C28)	298	50	ug/l	500		60	40-140	3	35	
Surrogate: n-Octacosane	34.2	_	"	50.0		68	30-115			
Batch 7A22024 - EPA 3550B / EPA 8015B-	SVOA									
Blank (7A22024-BLK1)				Prepared: 0	01/22/07 Aı	nalyzed: 01	/23/07			
Diesel Range Organics (C10-C28)	ND	1.0	mg/kg							
Surrogate: n-Octacosane	1.52		"	1.67		91	40-120			
Laboratory Control Sample (7A22024-BS1)				Prepared: 0	01/22/07 A1	nalyzed: 01	/23/07			
Diesel Range Organics (C10-C28)	16.2	1.0	mg/kg	16.7		97	60-115			
Surrogate: n-Octacosane	1.95		"	1.67		117	40-120			
Matrix Spike (7A22024-MS1)	Source: MQ	A0437-23		Prepared: 0	01/22/07 A1	nalyzed: 01	/23/07			
Diesel Range Organics (C10-C28)	15.1	1.0	mg/kg	16.7	2.4	76	60-115			
Surrogate: n-Octacosane	1.78		"	1.67	_	107	40-120		_	
Matrix Spike Dup (7A22024-MSD1)	Source: MQ	A0437-23		Prepared: 0	01/22/07 Aı	nalyzed: 01	/23/07	_	_	_
Diesel Range Organics (C10-C28)	13.8	1.0	mg/kg	16.7	2.4	68	60-115	9	40	

1.73

Surrogate: n-Octacosane

40-120



Extractable Hydrocarbons by EPA 8015B - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A23027 - EPA 3550B Sonic / EPA	8015B-SVOA									
Blank (7A23027-BLK1)				Prepared: (01/23/07 A	nalyzed: 0	1/24/07			
Diesel Range Organics (C10-C28)	ND	1.0	mg/kg							
Surrogate: n-Octacosane	1.49		"	1.67		89	40-120			
Laboratory Control Sample (7A23027-BS1)				Prepared: (01/23/07 A	nalyzed: 0	1/24/07			
Diesel Range Organics (C10-C28)	16.6	1.0	mg/kg	16.7		99	60-115			
Surrogate: n-Octacosane	1.54		"	1.67		92	40-120			
Matrix Spike (7A23027-MS1)	Source: MQ	A0437-41		Prepared: (01/23/07 A	nalyzed: 0	1/24/07			
Diesel Range Organics (C10-C28)	25.4	1.0	mg/kg	16.7	6.8	111	60-115			
Surrogate: n-Octacosane	1.76		"	1.67		105	40-120			
Matrix Spike Dup (7A23027-MSD1)	Source: MQ	A0437-41		Prepared: (01/23/07 A	nalyzed: 0	1/24/07			
Diesel Range Organics (C10-C28)	39.9	1.0	mg/kg	16.7	6.8	198	60-115	44	40	R2, M7
Surrogate: n-Octacosane	1.88		"	1.67		113	40-120			
Batch 7A24006 - EPA 3550B / EPA 8015B	-SVOA									
Blank (7A24006-BLK1)				Prepared: (01/24/07 A	nalyzed: 0	1/25/07			
Diesel Range Organics (C10-C28)	ND	1.0	mg/kg							
Surrogate: n-Octacosane	1.63		"	1.67		98	40-120			
Laboratory Control Sample (7A24006-BS1)				Prepared: (01/24/07 A	nalyzed: 0	1/25/07			
Diesel Range Organics (C10-C28)	16.6	1.0	mg/kg	16.7		99	60-115			
Surrogate: n-Octacosane	1.57		"	1.67		94	40-120			
Matrix Spike (7A24006-MS1)	Source: MQ	A0691-03		Prepared: (01/24/07 A	nalyzed: 0	1/25/07			
Diesel Range Organics (C10-C28)	17.2	1.0	mg/kg	16.7	0.96	97	60-115			
Surrogate: n-Octacosane	1.77		"	1.67		106	40-120			





Extractable Hydrocarbons by EPA 8015B - Quality Control

TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7A24006 - EPA 3550B / EPA 8015B-SVOA

Matrix Spike Dup (7A24006-MSD1)	Source: MQA0	691-03		Prepared: 0	01/24/07 A	nalyzed: 0	1/25/07			
Diesel Range Organics (C10-C28)	16.1	1.0	mg/kg	16.7	0.96	91	60-115	7	40	
Surrogate: n-Octacosane	1.73		"	1.67		104	40-120			



Total Metals by EPA 6000/7000 Series Methods - Quality Control TestAmerica - Morgan Hill, CA

		Reporting	•	Spike	Source		%REC	•	RPD	•
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A17033 - EPA 3005A / EPA 6010B										
Blank (7A17033-BLK1)				Prepared: (01/17/07 Aı	nalyzed: 01	/18/07			
Lead	ND	0.10	mg/l							C
Laboratory Control Sample (7A17033-BS1)				Prepared: (01/17/07 Aı	nalyzed: 01	/18/07			
Lead	1.04	0.10	mg/l	1.00		104	80-120			C
Matrix Spike (7A17033-MS1)	Source: MQ	A0546-01		Prepared: (01/17/07 Aı	nalyzed: 01	/18/07			
Lead	1.18	0.10	mg/l	1.00	ND	118	80-120			C
Matrix Spike Dup (7A17033-MSD1)	Source: MQ	A0546-01		Prepared: (01/17/07 Aı	nalyzed: 01	/18/07			
Lead	1.22	0.10	mg/l	1.00	ND	122	80-120	3	20	C, M7
Batch 7A18032 - EPA 3050B / EPA 6010B										
Blank (7A18032-BLK1)				Prepared: (01/18/07 Aı	nalyzed: 01	/20/07			
Lead	ND	5.0	mg/kg							
Laboratory Control Sample (7A18032-BS1)				Prepared: (01/18/07 Aı	nalyzed: 01	/19/07			
Lead	43.1	5.0	mg/kg	50.0		86	75-120			
Matrix Spike (7A18032-MS1)	Source: MQ	A0476-01		Prepared: (01/18/07 Aı	nalyzed: 01	/19/07			
Lead	60.2	5.0	mg/kg	50.0	19	82	75-120			
Matrix Spike Dup (7A18032-MSD1)	Source: MQ	A 0476-01		Prepared: (01/18/07 Aı	nalyzed: 01	/19/07			
Lead	65.0	5.0	mg/kg	50.0	19	92	75-120	8	25	
Batch 7A18040 - EPA 3050B / EPA 6010B										
Blank (7A18040-BLK1)				Prepared: (01/18/07 Aı	nalyzed: 01	/20/07			
Lead	ND	5.0	mg/kg							



Total Metals by EPA 6000/7000 Series Methods - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A18040 - EPA 3050B / EPA 6010B										
Laboratory Control Sample (7A18040-BS1)				Prepared: 0	01/18/07 A	nalyzed: 01	/20/07			
Lead	50.9	5.0	mg/kg	50.0		102	75-120			
Matrix Spike (7A18040-MS1)	Source: MQ	A0437-20		Prepared: 0	01/18/07 A	nalyzed: 01	/20/07			
Lead	66.7	5.0	mg/kg	50.0	22	89	75-120			
Matrix Spike Dup (7A18040-MSD1)	Source: MQ	A0437-20		Prepared: 0	01/18/07 A	nalyzed: 01	/20/07			
Lead	61.8	5.0	mg/kg	50.0	22	80	75-120	8	25	
Batch 7A19031 - EPA 3050B / EPA 6010B										
Blank (7A19031-BLK1)				Prepared: 0	1/19/07 A	nalyzed: 01	/23/07			
Lead	ND	5.0	mg/kg							
Laboratory Control Sample (7A19031-BS1)				Prepared: 0	01/19/07 A	nalyzed: 01	/23/07			
Lead	48.6	5.0	mg/kg	50.0		97	75-120			
Matrix Spike (7A19031-MS1)	Source: MQ	A0444-01		Prepared: 0	01/19/07 A	nalyzed: 01	/23/07			
Lead	129	5.0	mg/kg	50.0	86	86	75-120			
Matrix Spike Dup (7A19031-MSD1)	Source: MQ	A0444-01		Prepared: 0	01/19/07 A	nalyzed: 01	/23/07			
Lead	150	5.0	mg/kg	50.0	86	128	75-120	15	25	M



		Reporting		Spike	Source		%REC		RPD		l
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Blank (7A15001-BLK1)				Prepared & Anal	yzed: 01/15/07	
Benzene	ND	5.0	ug/kg			
Toluene	ND	5.0	"			
Ethylbenzene	ND	5.0	"			
Xylenes (total)	ND	5.0	"			
Methyl tert-butyl ether	ND	5.0	"			
Di-isopropyl ether	ND	5.0	"			
Ethyl tert-butyl ether	ND	5.0	"			
tert-Amyl methyl ether	ND	5.0	"			
tert-Butyl alcohol	ND	20	"			
1,2-Dichloroethane	ND	5.0	"			
1,2-Dibromoethane (EDB)	ND	5.0	"			
Ethanol	ND	100	"			
Surrogate: Dibromofluoromethane	4.74		"	5.00	95	45-130
Surrogate: 1,2-Dichloroethane-d4	5.24		"	5.00	105	55-135
urrogate: 4-Bromofluorobenzene	4.44		"	5.00	89	60-120
Laboratory Control Sample (7A15001-BS1)				Prepared & Anal	yzed: 01/15/07	
Benzene	19.9	5.0	ug/kg	20.0	100	70-130
Coluene	19.7	5.0	"	20.0	98	75-130
Ethylbenzene	18.6	5.0	"	20.0	93	75-130
Xylenes (total)	56.3	5.0	"	60.0	94	75-135
Methyl tert-butyl ether	18.5	5.0	"	20.0	92	75-130
Di-isopropyl ether	20.5	5.0	"	20.0	102	70-130
Ethyl tert-butyl ether	18.7	5.0	"	20.0	94	70-125
tert-Amyl methyl ether	18.2	5.0	"	20.0	91	65-140
tert-Butyl alcohol	378	20	"	400	94	75-130
1,2-Dichloroethane	19.0	5.0	"	20.0	95	70-120
1,2-Dibromoethane (EDB)	18.8	5.0	"	20.0	94	80-135
Ethanol	507	100	"	400	127	50-150
urrogate: Dibromofluoromethane	4.84		"	5.00	97	45-130
Surrogate: 1,2-Dichloroethane-d4	4.94		"	5.00	99	55-135
urrogate: 4-Bromofluorobenzene	4.66		"	5.00	93	60-120



Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7A15001 - EPA 5030B P/T / EPA 8260B

Matrix Spike (7A15001-MS1)	Source: MQA04	137-20		Prepared &	МС			
Benzene	21.0	5.0	ug/kg	20.0	0.38	103	70-130	
Toluene	20.6	5.0	"	20.0	0.74	99	75-130	
Ethylbenzene	18.9	5.0	"	20.0	ND	94	75-130	
Xylenes (total)	58.3	5.0	"	60.0	ND	97	75-135	
Methyl tert-butyl ether	20.7	5.0	"	20.0	ND	104	75-130	
Di-isopropyl ether	23.0	5.0	"	20.0	ND	115	70-130	
Ethyl tert-butyl ether	21.2	5.0	"	20.0	ND	106	70-125	
tert-Amyl methyl ether	21.1	5.0	"	20.0	ND	106	65-140	
tert-Butyl alcohol	377	20	"	400	ND	94	75-130	
1,2-Dichloroethane	21.0	5.0	"	20.0	ND	105	70-120	
1,2-Dibromoethane (EDB)	20.9	5.0	"	20.0	ND	104	80-135	
Ethanol	491	100	"	400	ND	123	50-150	
Surrogate: Dibromofluoromethane	4.98		"	5.00		100	45-130	
Surrogate: 1,2-Dichloroethane-d4	5.26		"	5.00		105	55-135	
Surrogate: 4-Bromofluorobenzene	4.78		"	5.00		96	60-120	

Batch 7A15017 - EPA 5030B P/T / EPA 8260B

Blank (7A15017-BLK1)				Prepared & Analyze	ed: 01/15/07	
Benzene	ND	5.0	ug/kg			
Toluene	ND	5.0	"			
Ethylbenzene	ND	5.0	"			
Xylenes (total)	ND	5.0	"			
Methyl tert-butyl ether	ND	5.0	"			
Di-isopropyl ether	ND	5.0	"			
Ethyl tert-butyl ether	ND	5.0	"			
tert-Amyl methyl ether	ND	5.0	"			
tert-Butyl alcohol	ND	20	"			
1,2-Dichloroethane	ND	5.0	"			
1,2-Dibromoethane (EDB)	ND	5.0	"			
Ethanol	ND	100	"			
Surrogate: Dibromofluoromethane	4.58		"	5.00	92	45-130
Surrogate: 1,2-Dichloroethane-d4	4.74		"	5.00	95	55-135
Surrogate: 4-Bromofluorobenzene	4.62		"	5.00	92	60-120



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Laboratory Control Sample (7A15017-BS1)				Prepared &	Analyzed:	01/15/07	
Benzene	19.9	5.0	ug/kg	20.0		100	70-130
Toluene	19.2	5.0	"	20.0		96	75-130
Ethylbenzene	18.1	5.0	"	20.0		90	75-130
Xylenes (total)	54.2	5.0	"	60.0		90	75-135
Methyl tert-butyl ether	18.0	5.0	"	20.0		90	75-130
Di-isopropyl ether	20.9	5.0	"	20.0		104	70-130
Ethyl tert-butyl ether	18.5	5.0	"	20.0		92	70-125
tert-Amyl methyl ether	17.8	5.0	"	20.0		89	65-140
tert-Butyl alcohol	337	20	"	400		84	75-130
1,2-Dichloroethane	17.4	5.0	"	20.0		87	70-120
1,2-Dibromoethane (EDB)	17.6	5.0	"	20.0		88	80-135
Ethanol	446	100	"	400		112	50-150
Surrogate: Dibromofluoromethane	4.78		"	5.00		96	45-130
Surrogate: 1,2-Dichloroethane-d4	4.72		"	5.00		94	55-135
Surrogate: 4-Bromofluorobenzene	4.64		"	5.00		93	60-120
Matrix Spike (7A15017-MS1)	Source: MQA	0437-36		Prepared: 0	1/15/07 A	nalyzed: 0	1/16/07
Benzene	24.2	5.0	ug/kg	20.0	ND	121	70-130
Toluene	23.8	5.0	"	20.0	ND	119	75-130
Ethylbenzene	21.7	5.0	"	20.0	ND	108	75-130
Xylenes (total)	65.5	5.0	"	60.0	ND	109	75-135
Methyl tert-butyl ether	22.6	5.0	"	20.0	ND	113	75-130
Di-isopropyl ether	25.4	5.0	"	20.0	ND	127	70-130
Ethyl tert-butyl ether	23.3	5.0	"	20.0	ND	116	70-125
tert-Amyl methyl ether	24.3	5.0	"	20.0	ND	122	65-140
tert-Butyl alcohol	441	20	"	400	ND	110	75-130
1,2-Dichloroethane	24.0	5.0	"	20.0	ND	120	70-120
1,2-Dibromoethane (EDB)	22.8	5.0	"	20.0	ND	114	80-135
Ethanol	550	100	"	400	ND	138	50-150
Surrogate: Dibromofluoromethane	5.06		"	5.00		101	45-130
Surrogate: 1,2-Dichloroethane-d4	5.18		"	5.00		104	55-135
Surrogate: 4-Bromofluorobenzene	4.76		"	5.00		95	60-120



Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7A15017 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (7A15017-MSD1)	urce: MQA0437-36 Prepared: 01/15/07 Analyzed: 01/16/07									
Benzene	23.3	5.0	ug/kg	20.0	ND	116	70-130	4	25	
Toluene	23.1	5.0	"	20.0	ND	116	75-130	3	20	
Ethylbenzene	20.9	5.0	"	20.0	ND	104	75-130	4	30	
Xylenes (total)	63.3	5.0	"	60.0	ND	106	75-135	3	25	
Methyl tert-butyl ether	21.5	5.0	"	20.0	ND	108	75-130	5	25	
Di-isopropyl ether	24.7	5.0	"	20.0	ND	124	70-130	3	40	
Ethyl tert-butyl ether	22.4	5.0	"	20.0	ND	112	70-125	4	30	
tert-Amyl methyl ether	23.2	5.0	"	20.0	ND	116	65-140	5	25	
tert-Butyl alcohol	407	20	"	400	ND	102	75-130	8	25	
1,2-Dichloroethane	22.8	5.0	"	20.0	ND	114	70-120	5	30	
1,2-Dibromoethane (EDB)	21.3	5.0	"	20.0	ND	106	80-135	7	20	
Ethanol	521	100	"	400	ND	130	50-150	5	30	
Surrogate: Dibromofluoromethane	5.00		"	5.00		100	45-130			
Surrogate: 1,2-Dichloroethane-d4	4.94		"	5.00		99	55-135			
Surrogate: 4-Bromofluorobenzene	4.86		"	5.00		97	60-120			

Batch 7A16003 - EPA 5030B P/T / EPA 8260B

Blank (7A16003-BLK1)				Prepared & Anal	lyze	d: 01/16/07
Benzene	ND	5.0	ug/kg			
Toluene	ND	5.0	"			
Ethylbenzene	ND	5.0	"			
Xylenes (total)	ND	5.0	"			
Methyl tert-butyl ether	ND	5.0	"			
Di-isopropyl ether	ND	5.0	"			
Ethyl tert-butyl ether	ND	5.0	"			
tert-Amyl methyl ether	ND	5.0	"			
tert-Butyl alcohol	ND	20	"			
1,2-Dichloroethane	ND	5.0	"			
1,2-Dibromoethane (EDB)	ND	5.0	"			
Ethanol	ND	100	"			
Surrogate: Dibromofluoromethane	4.68		"	5.00	94	
Surrogate: 1,2-Dichloroethane-d4	4.90		"	5.00	98	
Surrogate: 4-Bromofluorobenzene	4.72		"	5.00	94	



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A16003 - EPA 5030B P/T / EPA 8260B										

Laboratory Control Sample (7A16003-BS1)				Prepared &	Analyzed:	01/16/07	
Benzene	21.8	5.0	ug/kg	20.0		109	70-130
Toluene	21.3	5.0	"	20.0		106	75-130
Ethylbenzene	19.5	5.0	"	20.0		98	75-130
Xylenes (total)	59.4	5.0	"	60.0		99	75-135
Methyl tert-butyl ether	20.3	5.0	"	20.0		102	75-130
Di-isopropyl ether	22.7	5.0	"	20.0		114	70-130
Ethyl tert-butyl ether	20.7	5.0	"	20.0		104	70-125
tert-Amyl methyl ether	20.6	5.0	"	20.0		103	65-140
tert-Butyl alcohol	389	20	"	400		97	75-130
1,2-Dichloroethane	19.5	5.0	"	20.0		98	70-120
1,2-Dibromoethane (EDB)	20.6	5.0	"	20.0		103	80-135
Ethanol	406	100	"	400		102	50-150
Surrogate: Dibromofluoromethane	4.78		"	5.00		96	45-130
Surrogate: 1,2-Dichloroethane-d4	4.76		"	5.00		95	55-135
Surrogate: 4-Bromofluorobenzene	4.64		"	5.00		93	60-120
Matrix Spike (7A16003-MS1)	Source: MQA	0437-04		Prepared &	Analyzed:	01/16/07	
Benzene	22.6	5.0	ug/kg	20.0	ND	113	70-130
Toluene	21.7	5.0	"	20.0	ND	108	75-130
Ethylbenzene	20.7	5.0	"	20.0	ND	104	75-130
Xylenes (total)	63.2	5.0	"	60.0	ND	105	75-135
Methyl tert-butyl ether	20.6	5.0	"	20.0	ND	103	75-130
Di-isopropyl ether	24.3	5.0	"	20.0	ND	122	70-130
Ethyl tert-butyl ether	21.6	5.0	"	20.0	ND	108	70-125
tert-Amyl methyl ether	21.0	5.0	"	20.0	ND	105	65-140
tert-Butyl alcohol	394	20	"	400	ND	98	75-130
1,2-Dichloroethane	19.0	5.0	"	20.0	ND	95	70-120
1,2-Dibromoethane (EDB)	18.9	5.0	"	20.0	ND	94	80-135
Ethanol	428	100	"	400	ND	107	50-150
Surrogate: Dibromofluoromethane	4.76		"	5.00		95	45-130
Surrogate: 1,2-Dichloroethane-d4	4.46		"	5.00		89	55-135
			"	5.00		92	60-120



Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7A16003 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (7A16003-MSD1)	Source: MQA0	Prepared & Analyzed: 01/16/07								
Benzene	20.8	5.0	ug/kg	20.0	ND	104	70-130	8	25	
Toluene	19.5	5.0	"	20.0	ND	98	75-130	11	20	
Ethylbenzene	19.4	5.0	"	20.0	ND	97	75-130	6	30	
Xylenes (total)	59.4	5.0	"	60.0	ND	99	75-135	6	25	
Methyl tert-butyl ether	18.8	5.0	"	20.0	ND	94	75-130	9	25	
Di-isopropyl ether	22.2	5.0	"	20.0	ND	111	70-130	9	40	
Ethyl tert-butyl ether	19.6	5.0	"	20.0	ND	98	70-125	10	30	
tert-Amyl methyl ether	19.3	5.0	"	20.0	ND	96	65-140	8	25	
tert-Butyl alcohol	362	20	"	400	ND	90	75-130	8	25	
1,2-Dichloroethane	17.3	5.0	"	20.0	ND	86	70-120	9	30	
1,2-Dibromoethane (EDB)	16.6	5.0	"	20.0	ND	83	80-135	13	20	
Ethanol	352	100	"	400	ND	88	50-150	19	30	
Surrogate: Dibromofluoromethane	4.74		"	5.00		95	45-130			
Surrogate: 1,2-Dichloroethane-d4	4.64		"	5.00		93	55-135			
Surrogate: 4-Bromofluorobenzene	4.30		"	5.00		86	60-120			

Batch 7A16035 - EPA 5030B P/T / EPA 8260B

Blank (7A16035-BLK1)				Prepared & Analyzed: 01/16/07
Benzene	ND	5.0	ug/kg	
Toluene	ND	5.0	"	
Ethylbenzene	ND	5.0	"	
Xylenes (total)	ND	5.0	"	
Methyl tert-butyl ether	ND	5.0	"	
Di-isopropyl ether	ND	5.0	"	
Ethyl tert-butyl ether	ND	5.0	"	
tert-Amyl methyl ether	ND	5.0	"	
tert-Butyl alcohol	ND	20	"	
1,2-Dichloroethane	ND	5.0	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	
Ethanol	ND	100	"	
Surrogate: Dibromofluoromethane	4.82		"	5.00 96 45-130
Surrogate: 1,2-Dichloroethane-d4	4.66		"	5.00 93 55-135
Surrogate: 4-Bromofluorobenzene	4.72		"	5.00 94 60-120



		Reporting			Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Laboratory Control Sample (7A16035-BS1)				Prepared &	Analyzed:	01/16/07	
Benzene	22.0	5.0	ug/kg	20.0		110	70-130
Toluene	21.4	5.0	"	20.0		107	75-130
Ethylbenzene	20.0	5.0	"	20.0		100	75-130
Xylenes (total)	60.4	5.0	"	60.0		101	75-135
Methyl tert-butyl ether	19.2	5.0	"	20.0		96	75-130
Di-isopropyl ether	22.0	5.0	"	20.0		110	70-130
Ethyl tert-butyl ether	20.2	5.0	"	20.0		101	70-125
tert-Amyl methyl ether	20.0	5.0	"	20.0		100	65-140
tert-Butyl alcohol	389	20	"	400		97	75-130
1,2-Dichloroethane	18.9	5.0	"	20.0		94	70-120
1,2-Dibromoethane (EDB)	19.5	5.0	"	20.0		98	80-135
Ethanol	419	100	"	400		105	50-150
Surrogate: Dibromofluoromethane	4.64		"	5.00		93	45-130
Surrogate: 1,2-Dichloroethane-d4	4.38		"	5.00		88	55-135
Surrogate: 4-Bromofluorobenzene	4.74		"	5.00		95	60-120
Matrix Spike (7A16035-MS1)	Source: MQA	0442-01		Prepared: 0	1/16/07 Aı	nalyzed: 0	1/17/07
Benzene	24.3	5.0	ug/kg	20.0	ND	122	70-130
Toluene	24.1	5.0	"	20.0	0.28	119	75-130
Ethylbenzene	22.3	5.0	"	20.0	ND	112	75-130
Xylenes (total)	67.3	5.0	"	60.0	ND	112	75-135
Methyl tert-butyl ether	22.5	5.0	"	20.0	ND	112	75-130
Di-isopropyl ether	25.1	5.0	"	20.0	ND	126	70-130
Ethyl tert-butyl ether	22.9	5.0	"	20.0	ND	114	70-125
tert-Amyl methyl ether	22.3	5.0	"	20.0	ND	112	65-140
tert-Butyl alcohol	415	20	"	400	ND	104	75-130
1,2-Dichloroethane	22.1	5.0	"	20.0	ND	110	70-120
1,2-Dibromoethane (EDB)	21.8	5.0	"	20.0	ND	109	80-135
Ethanol	515	100	"	400	ND	129	50-150
Surrogate: Dibromofluoromethane	4.88		"	5.00		98	45-130
Surrogate: 1,2-Dichloroethane-d4	4.90		"	5.00		98	55-135
Surrogate: 4-Bromofluorobenzene	4.58		"	5.00		92	60-120



Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7A16035 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (7A16035-MSD1)	Source: MQA04		Prepared: 0	1/16/07 Aı	nalyzed: 01	1/17/07				
Benzene	20.8	5.0	ug/kg	20.0	ND	104	70-130	16	25	
Toluene	20.4	5.0	"	20.0	0.28	101	75-130	17	20	
Ethylbenzene	19.1	5.0	"	20.0	ND	96	75-130	15	30	
Xylenes (total)	58.4	5.0	"	60.0	ND	97	75-135	14	25	
Methyl tert-butyl ether	19.3	5.0	"	20.0	ND	96	75-130	15	25	
Di-isopropyl ether	21.5	5.0	"	20.0	ND	108	70-130	15	40	
Ethyl tert-butyl ether	19.7	5.0	"	20.0	ND	98	70-125	15	30	
tert-Amyl methyl ether	19.5	5.0	"	20.0	ND	98	65-140	13	25	
tert-Butyl alcohol	374	20	"	400	ND	94	75-130	10	25	
1,2-Dichloroethane	19.4	5.0	"	20.0	ND	97	70-120	13	30	
1,2-Dibromoethane (EDB)	18.9	5.0	"	20.0	ND	94	80-135	14	20	
Ethanol	469	100	"	400	ND	117	50-150	9	30	
Surrogate: Dibromofluoromethane	4.78		"	5.00		96	45-130			
Surrogate: 1,2-Dichloroethane-d4	4.98		"	5.00		100	55-135			
Surrogate: 4-Bromofluorobenzene	4.50		"	5.00		90	60-120			

Batch 7A17005 - EPA 5030B P/T / EPA 8260B

Blank (7A17005-BLK1)				Prepared & Analyzed	d: 01/17/07	
Benzene	ND	5.0	ug/kg			
Toluene	ND	5.0	"			
Ethylbenzene	ND	5.0	"			
Xylenes (total)	ND	5.0	"			
Methyl tert-butyl ether	ND	5.0	"			
Di-isopropyl ether	ND	5.0	"			
Ethyl tert-butyl ether	ND	5.0	"			
tert-Amyl methyl ether	ND	5.0	"			
tert-Butyl alcohol	ND	20	"			
1,2-Dichloroethane	ND	5.0	"			
1,2-Dibromoethane (EDB)	ND	5.0	"			
Ethanol	ND	100	"			
Surrogate: Dibromofluoromethane	4.72		"	5.00	94	45-130
Surrogate: 1,2-Dichloroethane-d4	4.90		"	5.00	98	55-135
Surrogate: 4-Bromofluorobenzene	4.64		"	5.00	93	60-120



Analyte Result Limit Units Level Result %REC Limits RPD Limit Notes			Reporting		Spike	Source		%REC		RPD	
	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Laboratory Control Sample (7A17005-BS1)				Prepared &	Analyzed:	01/17/07	
Benzene	23.6	5.0	ug/kg	20.0		118	70-130
Toluene	23.1	5.0	"	20.0		116	75-130
Ethylbenzene	20.8	5.0	"	20.0		104	75-130
Xylenes (total)	63.7	5.0	"	60.0		106	75-135
Methyl tert-butyl ether	22.3	5.0	"	20.0		112	75-130
Di-isopropyl ether	25.0	5.0	"	20.0		125	70-130
Ethyl tert-butyl ether	23.0	5.0	"	20.0		115	70-125
tert-Amyl methyl ether	23.9	5.0	"	20.0		120	65-140
tert-Butyl alcohol	418	20	"	400		104	75-130
1,2-Dichloroethane	21.1	5.0	"	20.0		106	70-120
1,2-Dibromoethane (EDB)	21.6	5.0	"	20.0		108	80-135
Ethanol	526	100	"	400		132	50-150
Surrogate: Dibromofluoromethane	4.96		"	5.00		99	45-130
Surrogate: 1,2-Dichloroethane-d4	4.68		"	5.00		94	55-135
Surrogate: 4-Bromofluorobenzene	4.62		"	5.00		92	60-120
Matrix Spike (7A17005-MS1)	Source: MQA	0437-19		Prepared &	Analyzed:	01/17/07	
Benzene	21.7	5.0	ug/kg	20.0	ND	108	70-130
Toluene	21.2	5.0	"	20.0	ND	106	75-130
Ethylbenzene	19.8	5.0	"	20.0	ND	99	75-130
Xylenes (total)	60.2	5.0	"	60.0	ND	100	75-135
Methyl tert-butyl ether	20.4	5.0	"	20.0	ND	102	75-130
Di-isopropyl ether	23.5	5.0	"	20.0	ND	118	70-130
Ethyl tert-butyl ether	21.3	5.0	"	20.0	ND	106	70-125
tert-Amyl methyl ether	21.2	5.0	"	20.0	ND	106	65-140
tert-Butyl alcohol	381	20	"	400	ND	95	75-130
1,2-Dichloroethane	18.9	5.0	"	20.0	ND	94	70-120
,2-Dibromoethane (EDB)	20.1	5.0	"	20.0	ND	100	80-135
Ethanol	393	100	"	400	ND	98	50-150
urrogate: Dibromofluoromethane	4.76		"	5.00		95	45-130
Surrogate: 1,2-Dichloroethane-d4	4.58		"	5.00		92	55-135
urrogate: 4-Bromofluorobenzene			"	5.00		93	60-120



Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7A17005 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (7A17005-MSD1)	Source: MQA04	Source: MQA0437-19 Prepared & Analyzed: 01/17/0								
Benzene	22.3	5.0	ug/kg	20.0	ND	112	70-130	3	25	
Toluene	21.3	5.0	"	20.0	ND	106	75-130	0.5	20	
Ethylbenzene	20.1	5.0	"	20.0	ND	100	75-130	2	30	
Xylenes (total)	60.5	5.0	"	60.0	ND	101	75-135	0.5	25	
Methyl tert-butyl ether	20.1	5.0	"	20.0	ND	100	75-130	1	25	
Di-isopropyl ether	23.3	5.0	"	20.0	ND	116	70-130	0.9	40	
Ethyl tert-butyl ether	21.1	5.0	"	20.0	ND	106	70-125	0.9	30	
tert-Amyl methyl ether	20.9	5.0	"	20.0	ND	104	65-140	1	25	
tert-Butyl alcohol	387	20	"	400	ND	97	75-130	2	25	
1,2-Dichloroethane	18.6	5.0	"	20.0	ND	93	70-120	2	30	
1,2-Dibromoethane (EDB)	19.2	5.0	"	20.0	ND	96	80-135	5	20	
Ethanol	377	100	"	400	ND	94	50-150	4	30	
Surrogate: Dibromofluoromethane	4.80		"	5.00		96	45-130			
Surrogate: 1,2-Dichloroethane-d4	4.58		"	5.00		92	55-135			
Surrogate: 4-Bromofluorobenzene	4.90		"	5.00		98	60-120			

Batch 7A18020 - EPA 5030B/5035A MeOH / EPA 8260B

Blank (7A18020-BLK1)				Prepared & Analyz	zed: 01/18/07		
Benzene	ND	0.050	mg/kg				
Toluene	ND	0.050	"				
Ethylbenzene	ND	0.050	"				
Xylenes (total)	ND	0.050	"				
Methyl tert-butyl ether	ND	0.025	"				
Di-isopropyl ether	ND	0.025	"				
Ethyl tert-butyl ether	ND	0.025	"				
tert-Amyl methyl ether	ND	0.025	"				
tert-Butyl alcohol	ND	5.0	"				
1,2-Dichloroethane	ND	0.025	"				
1,2-Dibromoethane (EDB)	ND	0.025	"				
Ethanol	ND	10	"				
Surrogate: Dibromofluoromethane	0.00231		"	0.00250	92	45-130	
Surrogate: 1,2-Dichloroethane-d4	0.00232		"	0.00250	93	55-135	
Surrogate: Toluene-d8	0.00246		"	0.00250	98	70-120	
Surrogate: 4-Bromofluorobenzene	0.00239		"	0.00250	96	60-120	

TestAmerica - Morgan Hill, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Laboratory Control Sample (7A18020-BS1)				Prepared & Anal	yzed: 01/18/07			
Benzene	1.10	0.050	mg/kg	1.00	110	70-130		
Toluene	1.10	0.050	"	1.00	110	75-130		
Ethylbenzene	1.00	0.050	"	1.00	100	75-130		
Xylenes (total)	3.08	0.050	"	3.00	103	75-135		
Methyl tert-butyl ether	1.00	0.025	"	1.00	100	75-130		
Di-isopropyl ether	1.12	0.025	"	1.00	112	70-130		
Ethyl tert-butyl ether	1.03	0.025	"	1.00	103	70-125		
tert-Amyl methyl ether	1.09	0.025	"	1.00	109	65-140		
tert-Butyl alcohol	19.5	5.0	"	20.0	98	75-130		
1,2-Dichloroethane	0.968	0.025	"	1.00	97	70-120		
1,2-Dibromoethane (EDB)	1.03	0.025	"	1.00	103	80-135		
Ethanol	20.6	10	"	20.0	103	50-150		
Surrogate: Dibromofluoromethane	0.00241		"	0.00250	96	45-130		
Surrogate: 1,2-Dichloroethane-d4	0.00232		"	0.00250	93	55-135		
Surrogate: Toluene-d8	0.00252		"	0.00250	101	70-120		
Surrogate: 4-Bromofluorobenzene	0.00235		"	0.00250	94	60-120		
Laboratory Control Sample Dup (7A18020-BSI	D1)			Prepared & Anal	yzed: 01/18/07			
Benzene	1.04	0.050	mg/kg	1.00	104	70-130	6	25
Toluene	1.04	0.050	"	1.00	104	75-130	6	20
Ethylbenzene	0.959	0.050	"	1.00	96	75-130	4	30
Xylenes (total)	2.95	0.050	"	3.00	98	75-135	4	25
Methyl tert-butyl ether	0.923	0.025	"	1.00	92	75-130	8	25
Di-isopropyl ether	1.06	0.025	"	1.00	106	70-130	6	40
Ethyl tert-butyl ether	0.964	0.025	"	1.00	96	70-125	7	30
tert-Amyl methyl ether	1.02	0.025	"	1.00	102	65-140	7	25
tert-Butyl alcohol	18.3	5.0	"	20.0	92	75-130	6	25
1,2-Dichloroethane	0.918	0.025	"	1.00	92	70-120	5	30
1,2-Dibromoethane (EDB)	0.943	0.025	"	1.00	94	80-135	9	20
Ethanol	20.4	10	"	20.0	102	50-150	1	30
Surrogate: Dibromofluoromethane	0.00242		"	0.00250	97	45-130		
Surrogate: 1,2-Dichloroethane-d4	0.00230		"	0.00250	92	55-135		
Surrogate: Toluene-d8	0.00257		"	0.00250	103	70-120		
Surrogate: 4-Bromofluorobenzene	0.00237		"	0.00250	95	60-120		



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (7A20006-BLK1)				Prepared & Anal	yzed: 01/20/07	
Benzene	ND	0.50	ug/l			
Toluene	ND	0.50	"			
Ethylbenzene	ND	0.50	"			
Xylenes (total)	ND	0.50	"			
Methyl tert-butyl ether	ND	0.50	"			
Di-isopropyl ether	ND	0.50	"			
Ethyl tert-butyl ether	ND	0.50	"			
tert-Amyl methyl ether	ND	0.50	"			
tert-Butyl alcohol	ND	20	"			
1,2-Dichloroethane	ND	0.50	"			
1,2-Dibromoethane (EDB)	ND	0.50	"			
Ethanol	ND	100	"			
Surrogate: Dibromofluoromethane	2.35		"	2.50	94	75-130
Surrogate: 1,2-Dichloroethane-d4	2.06		"	2.50	82	60-145
Surrogate: Toluene-d8	2.56		"	2.50	102	70-130
Surrogate: 4-Bromofluorobenzene	2.27		"	2.50	91	60-120
Laboratory Control Sample (7A20006-BS1)				Prepared & Anal	yzed: 01/20/07	
Benzene	10.7	0.50	ug/l	10.0	107	70-125
Toluene	10.1	0.50	"	10.0	101	70-120
Ethylbenzene	10.8	0.50	"	10.0	108	70-130
Xylenes (total)	32.7	0.50	"	30.0	109	80-125
Methyl tert-butyl ether	9.45	0.50	"	10.0	94	50-140
Di-isopropyl ether	10.7	0.50	"	10.0	107	70-130
Ethyl tert-butyl ether	10.5	0.50	"	10.0	105	65-130
ert-Amyl methyl ether	10.2	0.50	"	10.0	102	65-135
ert-Butyl alcohol	181	20	"	200	90	60-135
1,2-Dichloroethane	8.65	0.50	"	10.0	86	75-125
1,2-Dibromoethane (EDB)	8.73	0.50	"	10.0	87	80-125
Ethanol	238	100	"	200	119	15-150
Surrogate: Dibromofluoromethane	2.40		"	2.50	96	75-130
Surrogate: 1,2-Dichloroethane-d4	2.17		"	2.50	87	60-145
Surrogate: Toluene-d8	2.57		"	2.50	103	70-130
Surrogate: 4-Bromofluorobenzene	2.49		"	2.50	100	60-120



		Reporting		Spike	Source		%REC		RPD		ı
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Matrix Spike (7A20006-MS1)	Source: MQA	0461-04		Prepared: 0	1/20/07 A	nalyzed: 0	1/21/07			
Benzene	13.7	0.50	ug/l	10.0	ND	137	70-125			M
Toluene	13.0	0.50	"	10.0	ND	130	70-120			M'
Ethylbenzene	13.8	0.50	"	10.0	ND	138	70-130			M
Xylenes (total)	41.8	0.50	"	30.0	ND	139	80-125			M
Methyl tert-butyl ether	12.7	0.50	"	10.0	ND	127	50-140			
Di-isopropyl ether	13.8	0.50	"	10.0	ND	138	70-130			M7
Ethyl tert-butyl ether	13.6	0.50	"	10.0	ND	136	65-130			M7
tert-Amyl methyl ether	13.3	0.50	"	10.0	ND	133	65-135			
tert-Butyl alcohol	240	20	"	200	5.7	117	60-135			
1,2-Dichloroethane	12.4	0.50	"	10.0	ND	124	75-125			
1,2-Dibromoethane (EDB)	12.4	0.50	"	10.0	ND	124	80-125			
Ethanol	296	100	"	200	ND	148	15-150			
Surrogate: Dibromofluoromethane	2.46		"	2.50		98	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.32		"	2.50		93	60-145			
Surrogate: Toluene-d8	2.53		"	2.50		101	70-130			
Surrogate: 4-Bromofluorobenzene	2.45		"	2.50		98	60-120			
Matrix Spike Dup (7A20006-MSD1)	Source: MQA	.0461-04		Prepared: 0	01/20/07 A	nalyzed: 0	1/21/07			
Benzene	11.6	0.50	ug/l	10.0	ND	116	70-125	17	15	R2
Toluene	11.2	0.50	"	10.0	ND	112	70-120	15	15	
Ethylbenzene	11.7	0.50	"	10.0	ND	117	70-130	16	15	R2
Xylenes (total)	35.9	0.50	"	30.0	ND	120	80-125	15	15	
Methyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	50-140	16	25	
Di-isopropyl ether	11.7	0.50	"	10.0	ND	117	70-130	16	35	
Ethyl tert-butyl ether	11.4	0.50	"	10.0	ND	114	65-130	18	35	
tert-Amyl methyl ether	11.4	0.50	"	10.0	ND	114	65-135	15	25	
tert-Butyl alcohol	208	20	"	200	5.7	101	60-135	14	35	
1,2-Dichloroethane	10.6	0.50	"	10.0	ND	106	75-125	16	10	R2
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0	ND	105	80-125	17	15	R2
Ethanol	230	100	"	200	ND	115	15-150	25	35	
Surrogate: Dibromofluoromethane	2.55		"	2.50		102	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.37		"	2.50		95	60-145			
Surrogate: Toluene-d8	2.57		"	2.50		103	70-130			
Surrogate: 4-Bromofluorobenzene	2.52		"	2.50		101	60-120			



		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	l

ND	Blank (7A23020-BLK1)				Prepared: 01/23/	07 Analyzed: 01	/24/07
thighlenzene ND 0.50 " lethyl tert-butyl ether ND 0.50 " lisisopropyl ethe	Benzene	ND	0.50	ug/l			
Venes (total)	Toluene	ND	0.50	"			
Pethyl tert-butyl ether ND	Ethylbenzene	ND	0.50	"			
ND 0.50 "	Xylenes (total)	ND	0.50	"			
ND	Methyl tert-butyl ether	ND	0.50	"			
rt-Amyl methyl ether rt-Butyl alcohol 2-Dichloroethane 2-Dibromoethane (EDB) ND 0,50 " 2-Dibromoethane (EDB) ND 0,50 " 1	Di-isopropyl ether	ND	0.50	"			
ND ND ND ND ND ND ND ND	Ethyl tert-butyl ether	ND	0.50	"			
ND 0.50 "	tert-Amyl methyl ether	ND	0.50	"			
2-Dibromoethane (EDB) ND 100 "	tert-Butyl alcohol	ND	20	"			
thanol ND 100 " throgate: Dibromofluoromethane 2.26 " 2.50 90 75-130 throgate: Dibromofluoromethane 2.20 " 2.50 88 60-145 throgate: Toluene-d8 2.44 " 2.50 88 70-130 throgate: 1,2-Dichloroethane-d4 2.05 " 2.50 88 70-130 throgate: 4-Bromofluorobenzene 2.05 " 2.50 82 70-130 throgate: 4-Bromofluorobenzene 2.05 " 2.50 82 60-120 throgate: 4-Bromofluorobenzene 2.05 " 2.50 82 60-120 throgate: 4-Bromofluorobenzene 2.05 " 10.0 102 70-125 0huene 2.05 " 10.0 102 70-125 0huene 2.05 " 10.0 105 70-130 thrylbenzene 2.05 " 10.0 105 70-130 thrylbenzene 2.05 " 10.0 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 70-130 105 105 70-130 105 105 70-130 105 105 70-130 105 105 70-130 105 105 70-130 105 105 70-130 105 105 105 105 105 105 105 105 105 10	1,2-Dichloroethane	ND	0.50	"			
turrogate: Dibromofluoromethane 2.26 " 2.50 90 75-130 turrogate: 1,2-Dichloroethane-d4 2.20 " 2.50 88 60-145 turrogate: 1,2-Dichloroethane-d4 2.20 " 2.50 88 60-145 turrogate: Toluene-d8 2.44 " 2.50 98 70-130 turrogate: 4-Bromofluorobenzene 2.05 " 2.50 82 60-120 turrogate: 4-Bromofluorobenzene 2.05 " 2.50 82 60-120 turrogate: 4-Bromofluorobenzene 2.05 " 2.50 10.0 102 70-125 oluene 2.05 " 10.0 102 70-125 oluene 2.05 " 10.0 102 70-125 oluene 2.05 " 10.0 105 70-130 turrogate: 10.5 0.50 " 10.0 105 70-130 turrogate: 10.5 0.50 " 10.0 106 80-125 telthyl tert-butyl ether 2.96 0.50 " 10.0 100 50-140 ti-isopropyl ether 11.0 0.50 " 10.0 110 70-130 thyl tert-butyl ether 10.4 0.50 " 10.0 110 70-130 thyl tert-butyl ether 10.5 0.50 " 10.0 104 65-135 tr-Butyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 2.42 " 200 99 60-135 2-Dichloroethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 turrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 turrogate: L2-Dichloroethane-44 2.29 " 2.50 97 75-130 turrogate: Toluene-d8 2.43 " 2.50 97 70-130 turrogate: Toluene-d8	1,2-Dibromoethane (EDB)	ND	0.50	"			
2.20	Ethanol	ND	100	"			
### 2.50 98 70-130 ### 2.50 #### 2.50 #### 2.50 #### 2.50 #### 2.50 #### 2.50 #### 2.50 ####################################	Surrogate: Dibromofluoromethane	2.26		"	2.50	90	75-130
Prepared & Analyzed: 01/23/07 Prepared & Analyzed: 01/23/0	Surrogate: 1,2-Dichloroethane-d4	2.20		"	2.50	88	60-145
Prepared & Analyzed: 01/23/07 Prepared & Analyzed: 01/23/0	Surrogate: Toluene-d8	2.44		"	2.50	98	70-130
enzene 10.2 0.50 ug/l 10.0 102 70-125 oluene 9.90 0.50 " 10.0 99 70-120 thylbenzene 10.5 0.50 " 10.0 105 70-130 ylenes (total) 31.8 0.50 " 30.0 106 80-125 lethyl tert-butyl ether 9.96 0.50 " 10.0 100 50-140 i-isopropyl ether 11.0 0.50 " 10.0 110 70-130 thyl tert-butyl ether 10.4 0.50 " 10.0 110 70-130 thyl tert-butyl ether 10.5 0.50 " 10.0 104 65-130 rt-Amyl methyl ether 10.5 0.50 " 10.0 105 65-135 rt-Butyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 currogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 currogate: 1,2-Dichloroethane-d4 2.29 " 2.50 97 70-130 currogate: 1,2-Dichloroethane-d8 2.43 " 2.50 97 70-130 currogate: Toluene-d8 2.43 " 2.50 0 97 70-130 currogate: Toluene-d8 2.43 " 2.50 0 97 70-130 currogate: Toluene-d8 2.43 " 2.50 0 97 70-130 currogate: Toluene-d8 2.43 " 2.50	Surrogate: 4-Bromofluorobenzene	2.05		"	2.50	82	60-120
10.0 99 70-120	Laboratory Control Sample (7A23020-BS1)				Prepared & Anal	yzed: 01/23/07	
thylbenzene 10.5 0.50 " 10.0 105 70-130 ylenes (total) 31.8 0.50 " 30.0 106 80-125 lethyl tert-butyl ether 9.96 0.50 " 10.0 100 50-140 i-isopropyl ether 11.0 0.50 " 10.0 110 70-130 thyl tert-butyl ether 10.4 0.50 " 10.0 110 70-130 thyl tert-butyl ether 10.5 0.50 " 10.0 104 65-130 rrt-Amyl methyl ether 10.5 0.50 " 10.0 105 65-135 rrt-Butyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 charcogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 charcogate: 1,2-Dichloroethane-d4 2.29 " 2.50 97 70-130 charcogate: Toluene-d8 2.43 " 2.50 97 70-130	Benzene	10.2	0.50	ug/l	10.0	102	70-125
ylenes (total) 31.8 0.50 " 30.0 106 80-125 lethyl tert-butyl ether 9.96 0.50 " 10.0 100 50-140 li-isopropyl ether 11.0 0.50 " 10.0 110 70-130 lthyl tert-butyl ether 10.4 0.50 " 10.0 104 65-130 lthyl tert-butyl ether 10.5 0.50 " 10.0 105 65-135 lthyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 lthanol 184 100 " 200 92 15-150 lthyl alcohol 2.42 " 2.50 97 75-130 lthyl alcohol 2.42 " 2.50 97 70-130 lthyl alcohol 2.43 " 2.50 97 70-130 lthyl alcohol 2.44 " 2.44 " 2.44 " 2.44 " 2.44 " 2.44 "	Toluene	9.90	0.50	"	10.0	99	70-120
lethyl tert-butyl ether 9.96 0.50 " 10.0 100 50-140 i-isopropyl ether 11.0 0.50 " 10.0 110 70-130 thyl tert-butyl ether 10.4 0.50 " 10.0 104 65-130 rt-Amyl methyl ether 10.5 0.50 " 10.0 105 65-135 rt-Butyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 aurrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 aurrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 97 70-130 aurrogate: Toluene-d8 2.43 " 2.50 97 70-130	Ethylbenzene	10.5	0.50	"	10.0	105	70-130
ti-isopropyl ether 11.0 0.50 " 10.0 110 70-130 thyl tert-butyl ether 10.4 0.50 " 10.0 104 65-130 rt-Amyl methyl ether 10.5 0.50 " 10.0 105 65-135 rt-Butyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 rtrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 rtrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 97 70-130 rtrogate: Toluene-d8 2.43 " 2.50 97 70-130	Xylenes (total)	31.8	0.50	"	30.0	106	80-125
thyl tert-butyl ether 10.4 0.50 " 10.0 104 65-130 rt-Amyl methyl ether 10.5 0.50 " 10.0 105 65-135 rt-Butyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 rurrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 rurrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 97 70-130 rurrogate: Toluene-d8 2.43 " 2.50 97 70-130	Methyl tert-butyl ether	9.96	0.50	"	10.0	100	50-140
rt-Amyl methyl ether 10.5 0.50 " 10.0 105 65-135 rt-Butyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 rurrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 rurrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 97 70-130 rurrogate: Toluene-d8 2.43 " 2.50 97 70-130	Di-isopropyl ether	11.0	0.50	"	10.0	110	70-130
rt-Butyl alcohol 198 20 " 200 99 60-135 2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 101 100 " 200 92 15-150 101 100 " 200 92 15-150 101 101 101 101 101 101 101 101 101	Ethyl tert-butyl ether	10.4	0.50	"	10.0	104	65-130
2-Dichloroethane 9.76 0.50 " 10.0 98 75-125 2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 urrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 urrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-145 urrogate: Toluene-d8 2.43 " 2.50 97 70-130	tert-Amyl methyl ether	10.5	0.50	"	10.0	105	65-135
2-Dibromoethane (EDB) 10.1 0.50 " 10.0 101 80-125 thanol 184 100 " 200 92 15-150 turrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 turrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-145 turrogate: Toluene-d8 2.43 " 2.50 97 70-130	tert-Butyl alcohol	198	20	"	200	99	60-135
thanol 184 100 " 200 92 15-150 urrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 urrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-145 urrogate: Toluene-d8 2.43 " 2.50 97 70-130	1,2-Dichloroethane	9.76	0.50	"	10.0	98	75-125
database 164 160 200 92 15-150 varrogate: Dibromofluoromethane 2.42 " 2.50 97 75-130 varrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-145 varrogate: Toluene-d8 2.43 " 2.50 97 70-130	1,2-Dibromoethane (EDB)	10.1	0.50	"	10.0	101	80-125
urrogate: Infomotificationethane 2.42 2.50 97 75-130 urrogate: 1,2-Dichloroethane-d4 2.29 " 2.50 92 60-145 urrogate: Toluene-d8 2.43 " 2.50 97 70-130	Ethanol	184	100	"	200	92	15-150
urrogate: Toluene-d8 2.43 " 2.50 97 70-130	Surrogate: Dibromofluoromethane	2.42		"	2.50	97	75-130
	Surrogate: 1,2-Dichloroethane-d4	2.29		"	2.50	92	60-145
urrogate: 4-Bromofluorobenzene 2.37 " 2.50 95 60-120	Surrogate: Toluene-d8	2.43		"	2.50	97	70-130
	Surrogate: 4-Bromofluorobenzene	2.37		"	2.50	95	60-120



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7A23020 -	FPA	5030R	P/T	/ FPA	8260R

Matrix Spike (7A23020-MS1)	Source: MQA	0590-03		Prepared: 0	01/23/07 A	nalyzed: 0	1/24/07			
Benzene	9.39	0.50	ug/l	10.0	ND	94	70-125			
Toluene	9.29	0.50	"	10.0	ND	93	70-120			
Ethylbenzene	9.59	0.50	"	10.0	ND	96	70-130			
Xylenes (total)	29.2	0.50	"	30.0	ND	97	80-125			
Methyl tert-butyl ether	9.08	0.50	"	10.0	ND	91	50-140			
Di-isopropyl ether	10.1	0.50	"	10.0	ND	101	70-130			
Ethyl tert-butyl ether	9.59	0.50	"	10.0	ND	96	65-130			
tert-Amyl methyl ether	9.25	0.50	"	10.0	ND	92	65-135			
tert-Butyl alcohol	182	20	"	200	ND	91	60-135			
1,2-Dichloroethane	9.22	0.50	"	10.0	ND	92	75-125			
1,2-Dibromoethane (EDB)	9.42	0.50	"	10.0	ND	94	80-125			
Ethanol	245	100	"	200	ND	122	15-150			
Surrogate: Dibromofluoromethane	2.45		"	2.50		98	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.27		"	2.50		91	60-145			
Surrogate: Toluene-d8	2.41		"	2.50		96	70-130			
Surrogate: 4-Bromofluorobenzene	2.37		"	2.50		95	60-120			
Matrix Spike Dup (7A23020-MSD1)	Source: MQA	.0590-03		Prepared: 0	01/23/07 A	nalyzed: 0	1/24/07			
Benzene	10.9	0.50	ug/l	10.0	ND	109	70-125	15	15	
Toluene	10.6	0.50	"	10.0	ND	106	70-120	13	15	
Ethylbenzene	11.0	0.50	"	10.0	ND	110	70-130	14	15	
Xylenes (total)	33.1	0.50	"	30.0	ND	110	80-125	13	15	
Methyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	50-140	19	25	
Di-isopropyl ether	11.9	0.50	"	10.0	ND	119	70-130	16	35	
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	65-130	15	35	
tert-Amyl methyl ether	11.3	0.50	"	10.0	ND	113	65-135	20	25	
tert-Butyl alcohol	201	20	"	200	ND	100	60-135	10	35	
1,2-Dichloroethane	10.8	0.50	"	10.0	ND	108	75-125	16	10	R2
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0	ND	112	80-125	17	15	R2
Ethanol	218	100	"	200	ND	109	15-150	12	35	
Surrogate: Dibromofluoromethane	2.45		"	2.50		98	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.37		"	2.50		95	60-145			
Surrogate: Toluene-d8	2.47		"	2.50		99	70-130			
Surrogate: 4-Bromofluorobenzene	2.49		"	2.50		100	60-120			





Notes and Definitions

ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
RL3	Reporting limit raised due to high concentrations of non-target analytes.
RL2	Reporting limit raised due to high concentrations of hydrocarbons.
R2	The RPD exceeded the acceptance limit.
Q1	Does not match typical pattern
MCP	No results were reported for the MS and/or MSD due to a clogged autosampler port. Batch was accepted based on Blank Spike (LCS) recoveries.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
I	Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
A-01	Pattern does not match typical gasoline.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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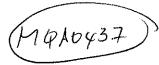
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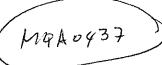
CHAIN OF CUSTODY RECORD

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CHAIN OF CUSTODY RECORD (M9A 5437)

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Treadwell & Rollo CHAIN OF CUSTODY RECORD



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Job Number:	3494.0														An	alys	sis I	Req	ues	tec					Turnaroun	i l
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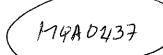
Treadwell & Rollo CHAIN OF CUSTODY RECORD

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CHAIN OF CUSTODY RECORD



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CHAIN OF CUSTODY RECORD

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TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: TREADUCE PRINT) REC. BY (PRINT) WORKORDER: MOREON		DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	1016 1- 14					ntory Purposes? WATER YES (NO) ATER YES /(NO)
CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE#	CLIENT ID	CONTAINER DESCRIPTION		рH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
Custody Seal(s) Present / Absent		SB-1 (6-65)	PHONG TUBE					
Intact / Broken*		(9.5-10)						
2. Chain-of-Custody Present Absent*		(145-15)						
Traffic Reports or		V (19.5-20)					m + 1,	
Packing List: Present Absent		SB-2 C6-65)	MASTE THE					
4. Airbill: Airbill / Sticker		(95-10)						
Present (Absent)		(A.S., -)					•	*
5. Airbill #:		(17-17.5)	~					
6. Sample Labels: Present / Absent		1 (19.5-20)	<u> </u>					All PLASTIC
7. Sample IDs: Listed / Not Listed		SB-3	SAME					TURER
on Chain-of-Custody		SB-4	j					`
8. Sample Condition: (Intact)/ Broken*/		TR-I	تر ل					
Leaking*		TR-2 (45-5)	PUSTIC TUBE					
9. Does information on chain-of-custody,		1 (gc-10)						
traffic reports and sample labels		145-13	*					
agree? Yes / No*		19.5-20						
10. Sample received within		TXZ	SAME					
hold time? Yes / No*		724	1					
11. Adequate sample volume		TR-5						
received? Yes / No*		"SB-1	3 UDAS	Hel				
12. Proper preservatives used? Yes / No*			2 AUBFRE	ļ				
13. Trip Blank / Temp Blank Received?			500 Polui	Hn03				
(circle which, if yes) Yes /No		SB-2	Come	Samo				
14. Read Temp: 5.0°C		SB - 3	1				ŀ	
Corrected Temp:		SB-4	11					
Is corrected temp 4 +/-2°C7 Yes / No**								
(Acceptance range for samples requiring thermal pres.)								
Exception (if any): METALS / DFF ON ICE							*************************************	
or Problem COC								

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

SRL Revision 8
Replaces Rev 7 (07/19/05)



20 March, 2007

Matt Hall Treadwell & Rollo - Oakland 501 14th Street 3rd Floor Oakland, CA 94612

RE: 1600 63rd Street, Emeryville

Work Order: MQA0566

Enclosed are the results of analyses for samples received by the laboratory on 01/16/07 19:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jin A

Tim Costello
Client Services Department Manager

CA ELAP Certificate # 1210

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.





ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TR-3	MQA0566-01	Water	01/15/07 11:00	01/16/07 19:55
TR-1	MQA0566-02	Water	01/15/07 11:45	01/16/07 19:55
TR-4	MQA0566-03	Water	01/15/07 13:45	01/16/07 19:55
TR-2	MQA0566-04	Water	01/15/07 15:45	01/16/07 19:55
MW-2	MQA0566-05	Water	01/15/07 16:45	01/16/07 19:55
TR-5	MQA0566-06	Water	01/15/07 17:15	01/16/07 19:55



Total Purgeable Hydrocarbons by GC/MS (CA LUFT) TestAmerica - Morgan Hill, CA

Analyte	Result			Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (MQA0566-01) Water Sampled: 01/1	15/07 11:00 Receive	ed: 01/16/07 1	19:55						
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7A24020	01/24/07	01/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		99 %	60-	145	"	"	"	"	
TR-1 (MQA0566-02) Water Sampled: 01/1	15/07 11:45 Receive	ed: 01/16/07 1	19:55						
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7A24020	01/24/07	01/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		104 %	60-	145	"	"	"	"	
TR-4 (MQA0566-03) Water Sampled: 01/1	15/07 13:45 Receive	ed: 01/16/07 1	19:55						
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7A24020	01/24/07	01/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-	145	"	"	"	"	
TR-2 (MQA0566-04) Water Sampled: 01/1	15/07 15:45 Receive	ed: 01/16/07 1	19:55						
Gasoline Range Organics (C4-C12)	3400	2500	ug/l	50	7A26004	01/26/07	01/26/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		95 %	60-	145	"	"	"	"	
MW-2 (MQA0566-05) Water Sampled: 01	/15/07 16:45 Receiv	ved: 01/16/07	19:55						
Gasoline Range Organics (C4-C12)	600	50	ug/l	1	7A24020	01/24/07	01/25/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		100 %	60-	145	"	"	"	"	
TR-5 (MQA0566-06) Water Sampled: 01/1	15/07 17:15 Receive	ed: 01/16/07 1	19:55						
Gasoline Range Organics (C4-C12)	12000	500	ug/l	10	7A23005	01/23/07	01/23/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		92 %	60-	145	"	"	"	"	



Extractable Hydrocarbons by EPA 8015B TestAmerica - Morgan Hill, CA

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (MQA0566-01) Water Sampled: 01/	15/07 11:00 Receive	ed: 01/16/07 1	9:55						
Diesel Range Organics (C10-C28)	98	47	ug/l	1	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		86 %	30-	115	"	"	"	"	
TR-1 (MQA0566-02) Water Sampled: 01/	15/07 11:45 Receive	ed: 01/16/07 1	9:55						
Diesel Range Organics (C10-C28)	140	47	ug/l	1	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		96 %	30-	115	"	"	"	"	
TR-4 (MQA0566-03) Water Sampled: 01/	15/07 13:45 Receive	ed: 01/16/07 1	9:55						
Diesel Range Organics (C10-C28)	430	48	ug/l	1	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		94 %	30-	115	"	"	"	"	
TR-2 (MQA0566-04) Water Sampled: 01/	15/07 15:45 Receive	ed: 01/16/07 1	9:55						
Diesel Range Organics (C10-C28)	480000	38000	ug/l	400	7A18019	01/18/07	01/22/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		%	30-	115	"	"	"	"	Z3
MW-2 (MQA0566-05) Water Sampled: 0	1/15/07 16:45 Receiv	ved: 01/16/07	19:55						
Diesel Range Organics (C10-C28)	10000	480	ug/l	10	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		197 %	30-	115	"	"	"	"	ZX
TR-5 (MQA0566-06) Water Sampled: 01/	15/07 17:15 Receive	ed: 01/16/07 1	9:55						
Diesel Range Organics (C10-C28)	31000	2400	ug/l	50	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		397 %	30-	115	"	"	"	"	Z3



Total Metals by EPA 200 Series Methods TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes				
TR-3 (MQA0566-01) Water	Sampled: 01/15/07 11:00 Re	ceived: 01/16/07	19:55										
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/19/07	EPA 200.7					
TR-1 (MQA0566-02) Water	Sampled: 01/15/07 11:45 Re	ceived: 01/16/07	19:55										
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7					
TR-4 (MQA0566-03) Water	TR-4 (MQA0566-03) Water Sampled: 01/15/07 13:45 Received: 01/16/07 19:55												
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7					
TR-2 (MQA0566-04) Water	Sampled: 01/15/07 15:45 Re	ceived: 01/16/07	19:55										
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7					
MW-2 (MQA0566-05) Water	Sampled: 01/15/07 16:45 R	eceived: 01/16/07	19:55										
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7					
TR-5 (MQA0566-06) Water	Sampled: 01/15/07 17:15 Re	ceived: 01/16/07	19:55										
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7					



Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (MQA0566-01) Water Sampled: 01/15	5/07 11:00 Receive	ed: 01/16/07 1	9:55						
Benzene	ND	0.50	ug/l	1	7A24020	01/24/07	01/25/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	75-13)	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		99 %	60-14.	5	"	"	"	"	
Surrogate: Toluene-d8		98 %	70-13	9	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90 %	60-12)	"	"	"	"	
TR-1 (MQA0566-02) Water Sampled: 01/1:	5/07 11:45 Receive	ed: 01/16/07 1	9:55						
Benzene	ND	0.50	ug/l	1	7A24020	01/24/07	01/25/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	7.4	0.50	"	"	"	"	"	"	
		0.30							
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether	ND ND		"	"	"	"	"	"	
		0.50		"			" " "		
Ethyl tert-butyl ether	ND	0.50 0.50	"	" "	"	"	"	"	
Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND	0.50 0.50 0.50	"	" " "	"	"	"	"	
Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND	0.50 0.50 0.50 20	" "	"	"	"	" "	" " " " " " " " " " " " " " " " " " " "	
Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND	0.50 0.50 0.50 20 0.50	" " "	"	" "	" "	" " "	11 11 11	
Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND ND ND ND	0.50 0.50 0.50 20 0.50 0.50	" " " "	" "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	
Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND ND ND ND	0.50 0.50 0.50 20 0.50 0.50 100	" " " " " " " " " " " " " " " " " " " "	" "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	
Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol Surrogate: Dibromofluoromethane	ND ND ND ND	0.50 0.50 0.50 20 0.50 0.50 100	75-13	" " "	11 11 11 11 11 11 11 11 11 11 11 11 11	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11	



Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (MQA0566-03) Water Sampled: 01/1	5/07 13:45 Receive	ed: 01/16/07 1	9:55						
Benzene	ND	0.50	ug/l	1	7A24020	01/24/07	01/25/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	2.2	0.50	"	"	"	"	"	"	
Di-isopropyl ether	1.0	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	II .	
Surrogate: Dibromofluoromethane		99 %	75-1	130	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	60-1	145	"	"	"	"	
Surrogate: Toluene-d8		95 %	70-1	130	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92 %	60-1	20	"	"	"	"	
TR-2 (MQA0566-04) Water Sampled: 01/1	5/07 15:45 Receive	ed: 01/16/07 1	9:55						
Benzene	ND	5.0	ug/l	10	7A23005	01/23/07	01/23/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether Di-isopropyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
							" "	" " "	
Di-isopropyl ether	ND	5.0	"		"	"	" " " " " " " " " " " " " " " " " " "		
Di-isopropyl ether Ethyl tert-butyl ether	ND ND	5.0 5.0	"	"	"	"	"	"	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether	ND ND ND	5.0 5.0 5.0	"	"	"	" "	"	"	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol	ND ND ND ND	5.0 5.0 5.0 200	" "	" "	" " "	" "	" "	" " " " " " " " " " " " " " " " " " " "	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane	ND ND ND ND	5.0 5.0 5.0 200 5.0	""	" "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	" " "	11 11 11	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND ND ND ND ND	5.0 5.0 5.0 200 5.0 5.0	"" "" "" "" "" "" "" "" "" "" "" "" ""	11 11 11 11	"" "" "" "" "" "" "" "" "" "" "" "" ""	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND ND ND ND ND	5.0 5.0 5.0 200 5.0 5.0 1000	" " " " " "	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	11 11 11 11	" " " " " " " " " " " " " " " " " " " "	n n n	
Di-isopropyl ether Ethyl tert-butyl ether tert-Amyl methyl ether tert-Butyl alcohol 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethanol Surrogate: Dibromofluoromethane	ND ND ND ND ND	5.0 5.0 5.0 200 5.0 5.0 1000	75-1	" " " " " " " " " " " " " " " " " " " "	11 11 11 11 11 11 11 11 11 11 11 11 11	n n n n n n n n n n n n n n n n n n n	n n n n	n n n	



Volatile Organic Compounds by EPA Method 8260B TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MQA0566-05) Water Sampled:	01/15/07 16:45 Recei	ved: 01/16/07	19:55			•			
Benzene	ND	0.50	ug/l	1	7A26004	01/26/07	01/26/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	n .	
Ethylbenzene	ND	0.50	"	"	"	"	"	n .	
Xylenes (total)	0.53	0.50	"	"	"	"	"	n .	
Methyl tert-butyl ether	0.95	0.50	"	"	"	"	"	"	
Di-isopropyl ether	0.97	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		96 %	75-1.	30	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		101 %	60-1-	45	"	"	"	"	
Surrogate: Toluene-d8		97 %	70-1.	30	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	60-12	20	"	"	"	"	
TR-5 (MQA0566-06) Water Sampled: 01	1/15/07 17:15 Receiv	ed: 01/16/07 1	9:55						RL
Benzene	ND	5.0	ug/l	10	7A23005	01/23/07	01/23/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	n .	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	n .	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	n .	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	n .	
tert-Butyl alcohol	ND	200	"	"	"	"	"	n .	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	n .	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91 %	75-1.	30	"	"	"	n .	
Surrogate: 1,2-Dichloroethane-d4		92 %	60-1-	45	"	"	"	"	
Surrogate: Toluene-d8		99 %	70-1.	30	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	60-12	20	"	"	"	"	



Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 7A23005 - EPA 5030B P/T / LUFT G	CMS											
Blank (7A23005-BLK1)				Prepared &	Analyzed:	01/23/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l									
Surrogate: 1,2-Dichloroethane-d4	2.64		"	2.50		106	60-145					
Laboratory Control Sample (7A23005-BS2)				Prepared &	Analyzed:	01/23/07						
Gasoline Range Organics (C4-C12)	526	50	ug/l	500		105	75-140					
Surrogate: 1,2-Dichloroethane-d4	2.66		"	2.50		106	60-145					
Laboratory Control Sample Dup (7A23005-BSD	2)			Prepared & Analyzed: 01/23/07								
Gasoline Range Organics (C4-C12)	469	50	ug/l	500		94	75-140	11	20			
Surrogate: 1,2-Dichloroethane-d4	2.67		"	2.50		107	60-145					
Batch 7A24020 - EPA 5030B P/T / LUFT G	CMS											
Blank (7A24020-BLK1)				Prepared &	Analyzed:	01/24/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l									
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96	60-145					
Laboratory Control Sample (7A24020-BS2)				Prepared &	Analyzed:	01/24/07						
Gasoline Range Organics (C4-C12)	630	50	ug/l	500		126	75-140					
Surrogate: 1,2-Dichloroethane-d4	2.54		"	2.50		102	60-145					
Laboratory Control Sample Dup (7A24020-BSD	2)			Prepared &	Analyzed:	01/24/07						
Gasoline Range Organics (C4-C12)	615	50	ug/l	500		123	75-140	2	20			
Surrogate: 1,2-Dichloroethane-d4	2.47		"	2.50		99	60-145					
Batch 7A26004 - EPA 5030B P/T / LUFT G	CMS											
Blank (7A26004-BLK1)				Prepared &	Analyzed:	01/26/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l									
Surrogate: 1,2-Dichloroethane-d4	2.40		"	2.50		96	60-145					



Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A26004 - EPA 5030B P/T / LU	JFT GCMS									
Laboratory Control Sample (7A26004-BS	52)			Prepared &	& Analyzed:	01/26/07				
Gasoline Range Organics (C4-C12)	651	50	ug/l	500		130	75-140			
Surrogate: 1,2-Dichloroethane-d4	2.65		"	2.50		106	60-145			
Laboratory Control Sample Dup (7A2600	04-BSD2)			Prepared &	k Analyzed:	01/26/07				
Gasoline Range Organics (C4-C12)	526	50	ug/l	500		105	75-140	21	20	
Surrogate: 1,2-Dichloroethane-d4	2.51		"	2.50		100	60-145			

RPD



Treadwell & Rollo - OaklandProject:1600 63rd Street, EmeryvilleMQA0566501 14th Street 3rd FloorProject Number:3494.01Reported:Oakland CA, 94612Project Manager:Matt Hall03/20/07 17:48

Extractable Hydrocarbons by EPA 8015B - Quality Control TestAmerica - Morgan Hill, CA

Spike

50.0

Source

Reporting

45.1

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7A18019 - EPA 3510C / EPA 80	15B-SVOA									
Blank (7A18019-BLK1)				Prepared &	Analyzed:	01/18/07				
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	42.8		"	50.0		86	30-115			
Laboratory Control Sample (7A18019-BS)	1)			Prepared &	Analyzed:	01/18/07				
Diesel Range Organics (C10-C28)	379	50	ug/l	500		76	40-140			
Surrogate: n-Octacosane	41.3		"	50.0		83	30-115			
Laboratory Control Sample Dup (7A18019	O-BSD1)			Prepared &	Analyzed:	01/18/07				
Diesel Range Organics (C10-C28)	396	50	ug/l	500		79	40-140	4	35	

Surrogate: n-Octacosane

%REC

30-115





Total Metals by EPA 200 Series Methods - Quality Control TestAmerica - Morgan Hill, CA

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 7A17038 - EPA 3005A / EPA 200.7											
Blank (7A17038-BLK1)	Prepared: 01/18/07 Analyzed: 01/19/07										
Lead	ND	0.10	mg/l								
Laboratory Control Sample (7A17038-BS1)				Prepared: (01/18/07 A	nalyzed: 01	/19/07				
Lead	0.976	0.10	mg/l	1.00		98	85-115				
Matrix Spike (7A17038-MS1)	Source: MQ	A0566-01		Prepared: (01/18/07 A	nalyzed: 01	/19/07				
Lead	0.974	0.10	mg/l	1.00	ND	97	70-130				
Matrix Spike Dup (7A17038-MSD1)	Source: MQ	A0566-01		Prepared: (1/18/07 A	nalyzed: 01	/19/07				
Lead	0.947	0.10	mg/l	1.00	ND	95	70-130	3	20		



		Reporting		Spike	Source		%REC		RPD		ĺ
Ana	yte Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7									
Ethylbenzene ND 0.50 " Xylenes (total) ND 0.50 " Methyl tert-butyl ether ND 0.50 " Ethyl tert-butyl ether ND 0.50 " Ethyl tert-butyl ether ND 0.50 " Ethyl tert-butyl ether ND 0.50 " tert-Amyl methyl ether ND 0.50 " tert-Butyl alcohol ND 20 " 1,2-Dichloroethane ND 0.50 " 1,2-Dibromoethane (EDB) ND 0.50 " Sturrogate: Dibromofluoromethane 2.53 " 2.50 101 7 Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07									
ND 0.50 "									
Methyl tert-butyl ether ND 0.50 " Di-isopropyl ether ND 0.50 " Ethyl tert-butyl ether ND 0.50 " tert-Amyl methyl ether ND 0.50 " tert-Butyl alcohol ND 20 " 1,2-Dichloroethane ND 0.50 " 1,2-Dibromoethane (EDB) ND 0.50 " Ethanol ND 100 " Surrogate: Dibromofluoromethane 2.53 " 2.50 101 7 Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Prepared & Analyzed: 01/23/07									
Di-isopropyl ether									
Ethyl tert-butyl ether									
tert-Amyl methyl ether tert-Butyl alcohol ND 20 " 1,2-Dichloroethane ND 0.50 " 1,2-Dibromoethane (EDB) ND 0.50 " 1,2-Dibromoethane (EDB) ND 0.50 " Ethanol ND 100 " Surrogate: Dibromofluoromethane 2.53 " 2.50 101 7 Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Prepared & Analyzed: 01/23/07									
tert-Butyl alcohol ND 20 " 1,2-Dichloroethane ND 0.50 " 1,2-Dibromoethane (EDB) ND 0.50 " Ethanol ND 100 " Surrogate: Dibromofluoromethane 2.53 " 2.50 101 7 Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07									
1,2-Dichloroethane ND 0.50 " 1,2-Dibromoethane (EDB) ND 0.50 " Ethanol ND 100 " Surrogate: Dibromofluoromethane 2.53 " 2.50 101 7 Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7									
1,2-Dibromoethane (EDB) ND 0.50 " Ethanol ND 100 " Surrogate: Dibromofluoromethane 2.53 " 2.50 101 7 Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7									
Ethanol ND 100 " Surrogate: Dibromofluoromethane 2.53 " 2.50 101 7 Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7									
Surrogate: Dibromofluoromethane 2.53 " 2.50 101 7 Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7									
Surrogate: 1,2-Dichloroethane-d4 2.64 " 2.50 106 6 Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7									
Surrogate: Toluene-d8 2.47 " 2.50 99 7 Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7	75-130								
Surrogate: 4-Bromofluorobenzene 2.29 " 2.50 92 6 Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7	60-145								
Laboratory Control Sample (7A23005-BS1) Prepared & Analyzed: 01/23/07 Benzene 9.82 0.50 ug/l 10.0 98 7	70-130								
Benzene 9.82 0.50 ug/l 10.0 98 7	60-120								
	Prepared & Analyzed: 01/23/07								
Toluene 10.0 0.50 " 10.0 7	70-125								
	70-120								
Ethylbenzene 10.6 0.50 " 10.0 106 7	70-130								
Xylenes (total) 31.7 0.50 " 30.0 106 8	80-125								
Methyl tert-butyl ether 10.0 0.50 " 10.0 50	50-140								
Di-isopropyl ether 9.61 0.50 " 10.0 96 7	70-130								
Ethyl tert-butyl ether 9.93 0.50 " 10.0 99 6	65-130								
tert-Amyl methyl ether 10.1 0.50 " 10.0 101 6	65-135								
tert-Butyl alcohol 191 20 " 200 96 6	60-135								
1,2-Dichloroethane 11.0 0.50 " 10.0 110 7	75-125								
1,2-Dibromoethane (EDB) 10.7 0.50 " 10.0 107 8	80-125								
Ethanol 218 100 " 200 109 1	15-150								
Surrogate: Dibromofluoromethane 2.59 " 2.50 104 7									
Surrogate: 1,2-Dichloroethane-d4 2.66 " 2.50 106 6	75-130								
Surrogate: Toluene-d8 2.54 " 2.50 102 7	75-130 60-145								
Surrogate: 4-Bromofluorobenzene 2.67 " 2.50 107 6									



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	7A23005	- EPA 50301	B P/T / EPA 82	260B

Matrix Spike (7A23005-MS1)	x Spike (7A23005-MS1) Source: MQA				MQA0431-10 Prepared & Analyzed: 01/23/07							
Benzene	11.2	0.50	ug/l	10.0	ND	112	70-125					
Toluene	10.9	0.50	"	10.0	ND	109	70-120					
Ethylbenzene	11.4	0.50	"	10.0	ND	114	70-130					
Xylenes (total)	34.9	0.50	"	30.0	ND	116	80-125					
Methyl tert-butyl ether	11.3	0.50	"	10.0	ND	113	50-140					
Di-isopropyl ether	12.4	0.50	"	10.0	ND	124	70-130					
Ethyl tert-butyl ether	11.8	0.50	"	10.0	ND	118	65-130					
tert-Amyl methyl ether	11.6	0.50	"	10.0	ND	116	65-135					
tert-Butyl alcohol	215	20	"	200	ND	108	60-135					
1,2-Dichloroethane	10.7	0.50	"	10.0	ND	107	75-125					
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0	ND	113	80-125					
Ethanol	213	100	"	200	ND	106	15-150					
Surrogate: Dibromofluoromethane	2.36		"	2.50		94	75-130					
Surrogate: 1,2-Dichloroethane-d4	2.31		"	2.50		92	60-145					
Surrogate: Toluene-d8	2.47		"	2.50		99	70-130					
Surrogate: 4-Bromofluorobenzene	2.43		"	2.50		97	60-120					
Matrix Spike Dup (7A23005-MSD1)	Source: MQA	0431-10		Prepared &	Analyzed:	01/23/07						
Benzene	11.0	0.50	ug/l	10.0	ND	110	70-125	2	15			
Toluene	10.5	0.50	"	10.0	ND	105	70-120	4	15			
Ethylbenzene	10.9	0.50	"	10.0	ND	109	70-130	4	15			
Xylenes (total)	33.9	0.50	"	30.0	ND	113	80-125	3	15			
Methyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	50-140	0.9	25			
Di-isopropyl ether	12.2	0.50	"	10.0	ND	122	70-130	2	35			
Ethyl tert-butyl ether	11.8	0.50	"	10.0	ND	118	65-130	0	35			
tert-Amyl methyl ether	11.5	0.50	"	10.0	ND	115	65-135	0.9	25			
tert-Butyl alcohol	213	20	"	200	ND	106	60-135	0.9	35			
1,2-Dichloroethane	10.7	0.50	"	10.0	ND	107	75-125	0	10			
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0	ND	109	80-125	4	15			
Ethanol	230	100	"	200	ND	115	15-150	8	35			
Surrogate: Dibromofluoromethane	2.39		"	2.50		96	75-130					
Surrogate: 1,2-Dichloroethane-d4	2.31		"	2.50		92	60-145					
Surrogate: Toluene-d8	2.47		"	2.50		99	70-130					
Surrogate: 4-Bromofluorobenzene	2.40		"	2.50		96	60-120					



		Reporting		Spike	Source		%REC		RPD		l
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Blank (7A24020-BLK1)				Prepared & Anal	lyzed: 01/24/07	
Benzene	ND	0.50	ug/l			
Toluene	ND	0.50	"			
Ethylbenzene	ND	0.50	"			
Xylenes (total)	ND	0.50	"			
Methyl tert-butyl ether	ND	0.50	"			
Di-isopropyl ether	ND	0.50	"			
Ethyl tert-butyl ether	ND	0.50	"			
tert-Amyl methyl ether	ND	0.50	"			
tert-Butyl alcohol	ND	20	"			
1,2-Dichloroethane	ND	0.50	"			
1,2-Dibromoethane (EDB)	ND	0.50	"			
Ethanol	ND	100	"			
Surrogate: Dibromofluoromethane	2.35		"	2.50	94	75-130
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50	96	60-145
Surrogate: Toluene-d8	2.36		"	2.50	94	70-130
Surrogate: 4-Bromofluorobenzene	2.21		"	2.50	88	60-120
Laboratory Control Sample (7A24020-BS1)				Prepared & Anal	lyzed: 01/24/07	
Benzene	11.1	0.50	ug/l	10.0	111	70-125
Гoluene	11.1	0.50	"	10.0	111	70-120
Ethylbenzene	11.4	0.50	"	10.0	114	70-130
Xylenes (total)	34.5	0.50	"	30.0	115	80-125
Methyl tert-butyl ether	11.1	0.50	"	10.0	111	50-140
Di-isopropyl ether	11.5	0.50	"	10.0	115	70-130
Ethyl tert-butyl ether	11.6	0.50	"	10.0	116	65-130
ert-Amyl methyl ether	11.5	0.50	"	10.0	115	65-135
tert-Butyl alcohol	207	20	"	200	104	60-135
1,2-Dichloroethane	11.6	0.50	"	10.0	116	75-125
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0	112	80-125
Ethanol	210	100	"	200	105	15-150
urrogate: Dibromofluoromethane	2.64		"	2.50	106	75-130
urrogate: 1,2-Dichloroethane-d4	2.43		"	2.50	97	60-145
urrogate: Toluene-d8	2.50		"	2.50	100	70-130
urrogate: 4-Bromofluorobenzene	2.46		"	2.50	98	60-120



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 7A	24020 - EPA	A 5030B P/T	/ EPA 8260B

Matrix Spike (7A24020-MS1)	Source: MQA0591-02 Prepared & Analyzed: 01/24/07									
Benzene	11.4	0.50	ug/l	10.0	ND	114	70-125			
Toluene	11.5	0.50	"	10.0	ND	115	70-120			
Ethylbenzene	12.3	0.50	"	10.0	ND	123	70-130			
Xylenes (total)	36.8	0.50	"	30.0	ND	123	80-125			
Methyl tert-butyl ether	11.7	0.50	"	10.0	ND	117	50-140			
Di-isopropyl ether	12.1	0.50	"	10.0	ND	121	70-130			
Ethyl tert-butyl ether	11.9	0.50	"	10.0	ND	119	65-130			
tert-Amyl methyl ether	12.0	0.50	"	10.0	ND	120	65-135			
tert-Butyl alcohol	226	20	"	200	ND	113	60-135			
1,2-Dichloroethane	12.0	0.50	"	10.0	ND	120	75-125			
1,2-Dibromoethane (EDB)	12.1	0.50	"	10.0	ND	121	80-125			
Ethanol	231	100	"	200	ND	116	15-150			
Surrogate: Dibromofluoromethane	2.54		"	2.50		102	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.46		"	2.50		98	60-145			
Surrogate: Toluene-d8	2.57		"	2.50		103	70-130			
Surrogate: 4-Bromofluorobenzene	2.48		"	2.50		99	60-120			
Matrix Spike Dup (7A24020-MSD1)	Source: MQA	0591-02		Prepared &	Analyzed:	01/24/07				
Benzene	11.5	0.50	ug/l	10.0	ND	115	70-125	0.9	15	
Toluene	11.2	0.50	"	10.0	ND	112	70-120	3	15	
Ethylbenzene	12.1	0.50	"	10.0	ND	121	70-130	2	15	
Xylenes (total)	36.8	0.50	"	30.0	ND	123	80-125	0	15	
Methyl tert-butyl ether	11.1	0.50	"	10.0	ND	111	50-140	5	25	
Di-isopropyl ether	11.9	0.50	"	10.0	ND	119	70-130	2	35	
Ethyl tert-butyl ether	11.4	0.50	"	10.0	ND	114	65-130	4	35	
tert-Amyl methyl ether	11.5	0.50	"	10.0	ND	115	65-135	4	25	
tert-Butyl alcohol	230	20	"	200	ND	115	60-135	2	35	
1,2-Dichloroethane	11.9	0.50	"	10.0	ND	119	75-125	0.8	10	
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0	ND	113	80-125	7	15	
				200	NID	126	15-150	8	35	
Ethanol	251	100	"	200	ND	120	10 100	Ü	33	
Ethanol Surrogate: Dibromofluoromethane		100	"	2.50	ND	103	75-130			
	251	100			ND					
Surrogate: Dibromofluoromethane	251 2.57	100	"	2.50	ND	103	75-130			
Surrogate: Dibromofluoromethane Surrogate: 1,2-Dichloroethane-d4	251 2.57 2.42	100	"	2.50 2.50	ND	103 97	75-130 60-145			



		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (7A26004-BLK1)				Prepared & Anal	yzed: 01/26/07				
Benzene	ND	0.50	ug/l						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
Xylenes (total)	ND	0.50	"						
Methyl tert-butyl ether	ND	0.50	"						
Di-isopropyl ether	ND	0.50	"						
Ethyl tert-butyl ether	ND	0.50	"						
ert-Amyl methyl ether	ND	0.50	"						
ert-Butyl alcohol	ND	20	"						
,2-Dichloroethane	ND	0.50	"						
1,2-Dibromoethane (EDB)	ND	0.50	"						
Ethanol	ND	100	"						
urrogate: Dibromofluoromethane	2.33		"	2.50	93	75-130			
urrogate: 1,2-Dichloroethane-d4	2.40		"	2.50	96	60-145			
urrogate: Toluene-d8	2.43		"	2.50	97	70-130			
urrogate: 4-Bromofluorobenzene	2.52		"	2.50	101	60-120			
aboratory Control Sample (7A26004-BS1)	Prepared & Analyzed: 01/26/07								
Benzene	11.5	0.50	ug/l	10.0	115	70-125			
oluene	11.1	0.50	"	10.0	111	70-120			
thylbenzene	11.6	0.50	"	10.0	116	70-130			
Xylenes (total)	34.6	0.50	"	30.0	115	80-125			
Methyl tert-butyl ether	11.4	0.50	"	10.0	114	50-140			
Di-isopropyl ether	10.6	0.50	"	10.0	106	70-130			
Ethyl tert-butyl ether	11.3	0.50	"	10.0	113	65-130			
ert-Amyl methyl ether	12.3	0.50	"	10.0	123	65-135			
ert-Butyl alcohol	197	20	"	200	98	60-135			
,2-Dichloroethane	11.5	0.50	"	10.0	115	75-125			
,2-Dibromoethane (EDB)	11.4	0.50	"	10.0	114	80-125			
Ethanol	218	100	"	200	109	15-150			
urrogate: Dibromofluoromethane	2.49		"	2.50	100	75-130			
rrogate: 1,2-Dichloroethane-d4	2.61		"	2.50	104	60-145			
Surrogate: Toluene-d8	2.50		"	2.50	100	70-130			
Surrogate: 4-Bromofluorobenzene	2.73		"	2.50	109	60-120			



		Reporting		Spike	Source		%REC		RPD		l
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Benzene Toluene Ethylbenzene Xylenes (total)	12.2 11.4	0.50	ug/l	10.0	ND	100	70.105			
Ethylbenzene	11.4			10.0	ND	122	70-125			
•		0.50	"	10.0	ND	114	70-120			
Xylenes (total)	11.8	0.50	"	10.0	ND	118	70-130			
, ()	35.3	0.50	"	30.0	ND	118	80-125			
Methyl tert-butyl ether	18.4	0.50	"	10.0	7.2	112	50-140			
Di-isopropyl ether	11.0	0.50	"	10.0	ND	110	70-130			
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	65-130			
tert-Amyl methyl ether	12.2	0.50	"	10.0	ND	122	65-135			
tert-Butyl alcohol	200	20	"	200	ND	100	60-135			
1,2-Dichloroethane	10.5	0.50	"	10.0	0.30	102	75-125			
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0	ND	112	80-125			
Ethanol	228	100	"	200	ND	114	15-150			
Surrogate: Dibromofluoromethane	2.33		"	2.50		93	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.20		"	2.50		88	60-145			
Surrogate: Toluene-d8	2.40		"	2.50		96	70-130			
Surrogate: 4-Bromofluorobenzene	2.59		"	2.50		104	60-120			
Matrix Spike Dup (7A26004-MSD1)	Source: MQA	0684-01		Prepared &	Analyzed:	01/26/07				
Benzene	12.6	0.50	ug/l	10.0	ND	126	70-125	3	15	M7
Toluene	11.7	0.50	"	10.0	ND	117	70-120	3	15	
Ethylbenzene	11.9	0.50	"	10.0	ND	119	70-130	0.8	15	
Xylenes (total)	35.9	0.50	"	30.0	ND	120	80-125	2	15	
Methyl tert-butyl ether	19.1	0.50	"	10.0	7.2	119	50-140	4	25	
Di-isopropyl ether	11.4	0.50	"	10.0	ND	114	70-130	4	35	
Ethyl tert-butyl ether	11.7	0.50	"	10.0	ND	117	65-130	4	35	
tert-Amyl methyl ether	12.7	0.50	"	10.0	ND	127	65-135	4	25	
tert-Butyl alcohol	204	20	"	200	ND	102	60-135	2	35	
1,2-Dichloroethane	11.0	0.50	"	10.0	0.30	107	75-125	5	10	
1,2-Dibromoethane (EDB)	11.7	0.50	"	10.0	ND	117	80-125	4	15	
Ethanol	222	100	"	200	ND	111	15-150	3	35	
Surrogate: Dibromofluoromethane	2.40		"	2.50		96	75-130			
Surrogate: 1,2-Dichloroethane-d4	2.24		"	2.50		90	60-145			
Surrogate: Toluene-d8	2.43		"	2.50		97	70-130			
Surrogate: 4-Bromofluorobenzene	2.58		"	2.50		103	60-120			





Notes and Definitions

ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.										
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.										
RL2	Reporting limit raised due to high concentrations of hydrocarbons.										
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.										
Q1	Does not match typical pattern										
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).										
A-01	Pattern does not match typical gasoline.										
DET	Analyte DETECTED										
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified										
NR	Not Reported										
dry	Sample results reported on a dry weight basis										
RPD	Relative Percent Difference										

CHAIN OF CUSTODY RECORD

M916544

Page $\int_{-\infty}^{\infty}$ of $\int_{-\infty}^{\infty}$

Environmental and Geot	ecnnicai Consuli	tant				ery Str et, Thir																5.95	5.9041		
	- •	نمامه	777.0																			16.5	65.7412		
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Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

(MQX 0564)

Page 2 of 2

Environmental and Geol	ecnnicai Consul	tant								suu, Sa kland (415.9	}55.°	.9041		
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TR-5	<u> </u>	5:15	54		X				2			X											utilized.	An addit	ional
TH-5		5:15	1		丛	2	<u>, </u>				X		X	X									Amber u	vas provid	ed
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Sent to Laboratory (Name): Test America Laboratory Comments/Notes:							Ме	Method of Shipment Lab courier Fed Ex Airborne UPS Hand Carried Private Courier (Co. Name)																	
		White Copy	- Original	,	Yell	ow C	ору	- La	bor	atory	1				Pin	k Co	py - Fi	ield			С	OC	C Number: (006563	

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: 16 00 63 78	feet	DATE REC'D AT LAB:	1/16/07	<u> </u>		For Regulatory Purposes?					
REC. BY (PRINT) Shawiy	····	TIME REC'D AT LAB:	1953	<u> </u>			DRINKING				
WORKORDER: <u>MQ1 654</u>	4	DATE LOGGED IN:	177-	67			WASTE WA	TER YES (NO)			
-											
CIRCLE THE APPROPRIATE RESPONSE	LAB	CLIENT ID	CONTAINER		рΗ	SAMPLE	DATE	REMARKS:			
	SAMPLE #	CLIENTID	DESCRIPTION	VATIVE	hu	MATRIX	SAMPLED	CONDITION (ETC.)			
Custody Seal(s) Present / Absent	61	TR-1	I(L) Anla	•		L	1115/67				
Intact / Broken*			160 roly	KNO3							
2. Chain-of-Custody Present / Absent*	L	<u> </u>	VON-3	HCZ							
3. Traffic Reports or	οV	TR-2	2(C) Amba	-							
Packing List: Present / Absent		1	2(L) Poly	KU03							
4. Airbill: Airbill / Sticker	1		V64-3	HCL							
Present / Absent	23	+0-3	ici) Ande					•			
5. Airbill #:	1	•	1(1) POLY	KW03							
6. Sample Labels: Present Absent	4	1	VEA-3								
7. Sample IDs: Listed / Not Listed	24	R-4	same	gue!			`	·			
on Chain-of-Custody	e (+2-5	2(L) Amber	Timesent				4			
8. Sample Condition: Intact / Broken* /	,	1	1(4) poly	4403							
Leaking*	L	<u> </u>	NOV -3	1262							
9. Does information on chain-of-custody,	04	MW-Z	2(i) ANS								
traffic reports and sample labels		1	V5A-3	HUL	J	.JI	4				
agree? (Yes / No*		,					1				
10. Sample received within											
hold time? (Ves) / No*			`								
11. Adequate sample volume			,	11/6/1							
received? (Yes / No*											
12. Proper preservatives used? (res / No*			Just.								
13. Trip Blank / Temp Blank Received?			b'/								
(circle which, if yes) Yes / Not											
14. Read Temp: \\											
Corrected Temp:											
Is corrected temp 4 +/-2°C? Yes / No**											
(Acceptance range for samples requiring thermal pres.)											
Exception (if any): METALS / DFF ON ICE											
or Problem COC		<u>K</u>									

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



APPENDIX F Chromatograms

Software Version: 4.1<2F12>

Sample Name : MQA0437-42

Sample Number: SB-1

: RV Operator

Instrument : GCHP 05

AutoSampler : HP7673A

Rack/Vial : 0/6

Data Acquisition Time: 1/17/07 12:45 PM Interface Serial # : NONE

: 0.00 min. Delay Time : 29.65 End Time min.

Sampling Rate : 1.2500 pts/sec

: S:\GHP_05\011707\117A006.RAW Raw Data File : S:\GHP_05\011707\117A006.RST Result File

: S:\GHP 05\MET SEQ\TPH05A from S:\GHP 05\011707\117A006.RST Inst Method

Time : 1/17/07 01:17 PM

A/D mV Range: 1000

: 0.000000

22

24

26

28

Study : TREADWELL

Channel : A

Proc Method : S:\GHP 05\MET SEQ\TPH05A.mth Calib Method : S:\GHP_05\MET_SEQ\TPH05A.mth
Sequence File : S:\GHP_05\MET_SEQ\H05_0117.SEQ

: 1.0000 Area Reject uL Sample Volume Dilution Factor : 200.00 Sample Amount : 1.0000

ONPB 400-TPH-Diesel Chromatogram for SB-1 Grab Groundwater Sample 300 Response [mV] 200

> 14 Time [min]

16

18

20

Time [min]	Component Name	Area [uV·s]	Amount (ng)	(mg/kg)	(ug/L)	
1107111	,		 			
4.422	n-C9 to n-Cl3 Mineral Spir	3244338	3.2	7.210	216.289	
	n-C9 to n-C13 Stoddard Solv	324433R	3.2	7.210	216.289	
4.422	n-C9 to n-Cl3 Paint Thinner	3244338	3.2	7.210	216.289	
5.591	n-C9 to n-C15 JF-4	6176492	6.2	13,726	411.766	
5.411	n-C9 to n-C17 Jet A	B746653	574.3	1276.129	39293.876	
	n-C9 to n-C17 JF-5	8748653	8.7	19.441	583.244	
	n-C9 to n-Cl8 Kerosene	10176715	10.2	22.615	678.448	
	n-C9 to n-C18 JF-8	10176715	10.2	22.615	67R.448	
	n-C9 to n-C24 TFH-D	16878512	1023.7	2274.930	68247.908	
	LUFT DRO n-C10 to n-C23	15357256	994-1	2209.056	66271.673	
	n-C9 to n-C26 Heating Oil	18045625	18.0	40.101	1203.042	
	B&C DIESEL C12 to C23	13912621	1046.2	2329.232	69876.958	
	n-C10 to n-C28 8015 TOTAL	18393901	1150.7	2557.217	76716.499	
	n-C9 to n-C36	21261938	21.3	47,249	1417.463	
	n-Cl2 to n-C30 Transformer O	18096495	18.1	40.214	1206.433	
	n-C10 to n-C36 DRO	20669518	1289.3	2865.033	85950,979	
	n-C9 to n-C40 Total	21383891	1425.6	3167.964	95039.514	
	n-C13 to n-C32 8015	17424914	1256.0	2791.009	83730.280	/
	n-C12 to n-C38 Fuel Oil #6	19336209	19.3	42.969	1289.081	1
	n-C15 to n-C34 Mineral Oil	14820622	14.8	32.935	988.041	•
	n-C16 to n-C34 Transmiss Oil	13510888	13.5	30.024	900.726	
	n-Cl6 to n-C36 Motor Oil	13775712	1020.2	2267.140	68014.211	
	n-Cl6 to n-C40 Hydraulic Oil	13897665	13.9	30.884	926.511 471.338	
19.744		105405	7.1	15.711 1085.424	32562.715	
21.398	B&C MOTOR GIL C23 to C40	5434214	 488.4	1000.424	34394./13	
	ener and the top top Mar has had had mad mad and the tree tree tree tree that the top the time has been den and tree tree tree to	316065627	 10441.5			

12

10

Software Version: 4.1<2F12>

Sample Name : DSTD011706_500PPM Time : 1/17/07 03:50 PM

Sample Number: 6120149 Study : TA

: RV Operator

: GCHP 05 Channel : A Instrument A/D mV Range: 1000

AutoSampler : HP7673A : 0/10 Rack/Vial

Component

Times

Interface Serial # : NONE Data Acquisition Time: 1/17/07 03:13 PM

Delay Time : 0.00 min. : 29.65 End Time min. : 1.2500 pts/sec Sampling Rate

Raw Data File Result File

Inst Method

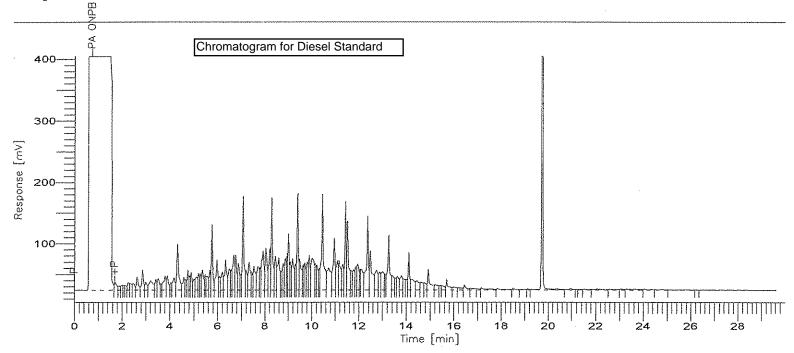
: S:\GHP_05\011707\117A010.RAW : S:\GHP_05\011707\117A010.RST : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\011707\117A010.RST : S:\GHP_05\MET_SEQ\TPH05A.mth : S:\GHP_05\MET_SEQ\TPH05A.mth Proc Method Calib Method : S:\GHP_05\MET_SEQ\H05_0117.SEQ Sequence File

Area

Raw Amount

Sample Volume : 1.0000 Area Reject : 0.000000

Sample Amount : 1.0000 Dilution Factor : 1.00



(min)	Name	(µV·s)	(ng)	[mg/kg]	[uq/L]	
	o n-Cl3 Mineral Spir	6087935	6.1	0.069	2.029	
	o n-Cl3 Stoddard Solv		6.1	0.068	2.029	
	o n-Cl3 Faint Thinner	6087935	6.1	0.068	2.029	
	o n-C15 JF-4	12349920	12.3	0.137	4.117	
	o n-C17 Jet A	18277938	1199.8	13.331	399,919	
	o n-C17 JF-5	18277938	18.3	0.203	6.093	
	o n-Cl8 Karosene	20599343	20.6	0.229	6.866	
	o n-Cla JP-8	20599343	20.6	0.229	6.866	
	o n-C24 TPH-D	24675722	1496.6	16.629	498.879	
	RO n-C10 to n-C23	23922351	1548.5	17.205	516.165	
10.149 n-C9 t	o n-C26 Heating Oil	24799093	24.8	0.276	8.266	
11.124 BGC DI	ESEL C12 to C23	20596686	1551.7	17.241	517.240	
11.223 n-ClO	to n-C28 8015 TOTAL	24184784	1513.0	16.811	504.344	
12.899 n-C9 t	o n-C36	27256624	27.3	0.303	9.086	
13.365 n-Cl2	to n-C30 Transformer O	23060555	23.1	0.256	7.687	
13.481 n-C10	to n-C36 DRO	26615564	1660.2	16.446	553.363	
14.067 n-C9 t	o n-C40 Total	27348299	1823.2	20.258	607.740	. 11
14.540 n-C13	to n-C32 9015	21016817	1514.9	16.832	504.951	م ۱۸ د د
15.438 n-C12	to n-C38 Fuel Oil #6	23341289	23.3	0.259	7.780	PASS
	to n-C34 Mineral Oil	14835724	24.8	0.165	4.945	1
	to n-C34 Transmiss Oil	11142946	11.1	0.124	3.714	
	to n-C36 Motor Oil	11214026	830.5	9.228	276.833	
	to n-C40 Hydraulic Oil	11305700	11.3	0.126	3.769	
19.740 n-C28		2155820	144.6	1.607	48.201	
	TOR OIL C23 to C40		250.3	2.781	83.438	
		428625076	13759.1	***		

Soil

Water

Quantitation Report (Not Reviewed)

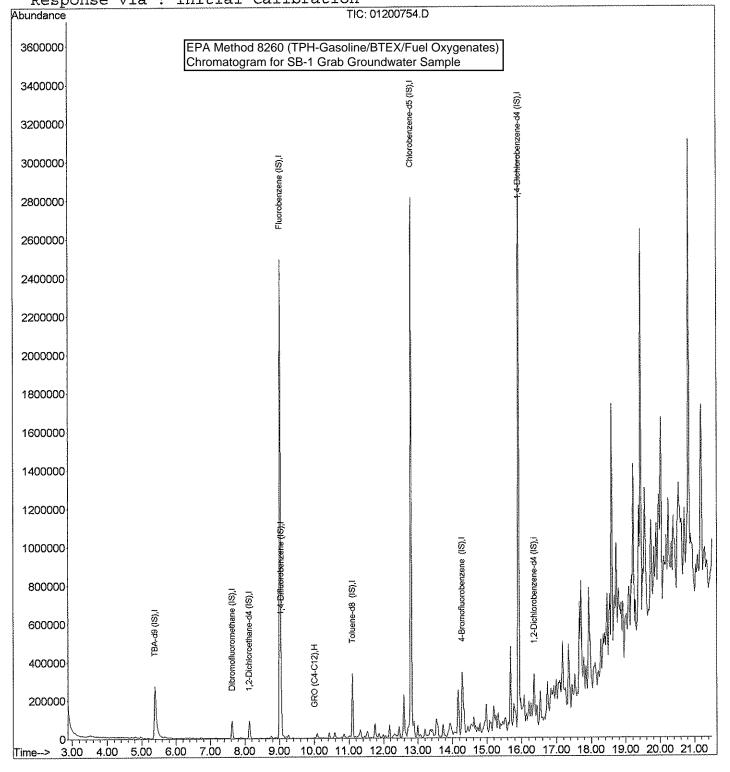
MS Integration Params: EVENTS.E

Quant Time: Jan 22 17:05 2007 Quant Results File: 87A15TPH.RES

Method : D:\MSDCHEM\1\METHODS\87C07826.M (RTE Integrator)

Title : 8260B/624/524.2

Last Update : Thu Mar 08 08:22:12 2007 Response via : Initial Calibration



Tue Mar 13 11:06:34 2007

Quantitation Report (Not Reviewed)

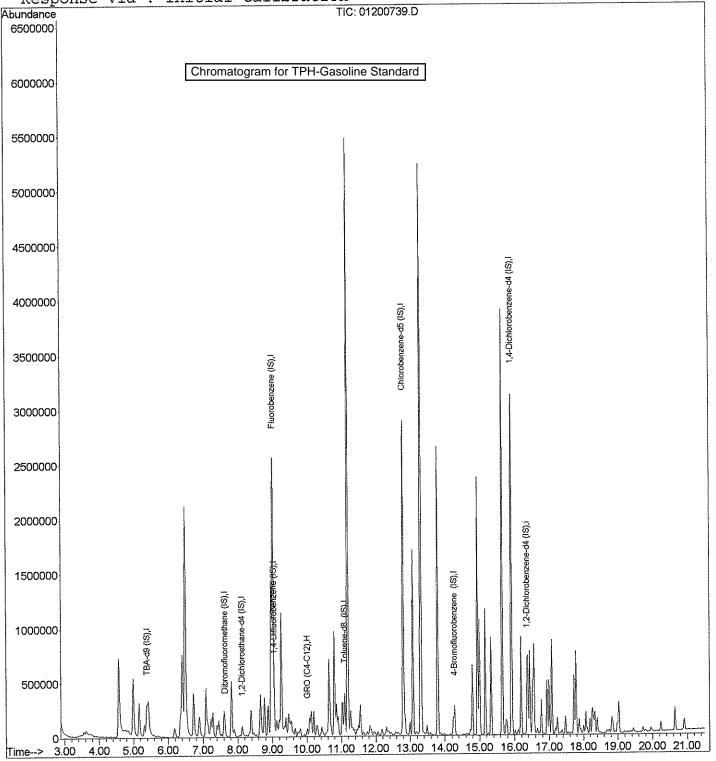
MS Integration Params: EVENTS.E

Quant Time: Jan 22 16:43 2007 Quant Results File: 87A15TPH.RES

Method : D:\MSDCHEM\1\METHODS\87C07826.M (RTE Integrator)

Title : 8260B/624/524.2

Last Update : Thu Mar 08 08:22:12 2007 Response via : Initial Calibration



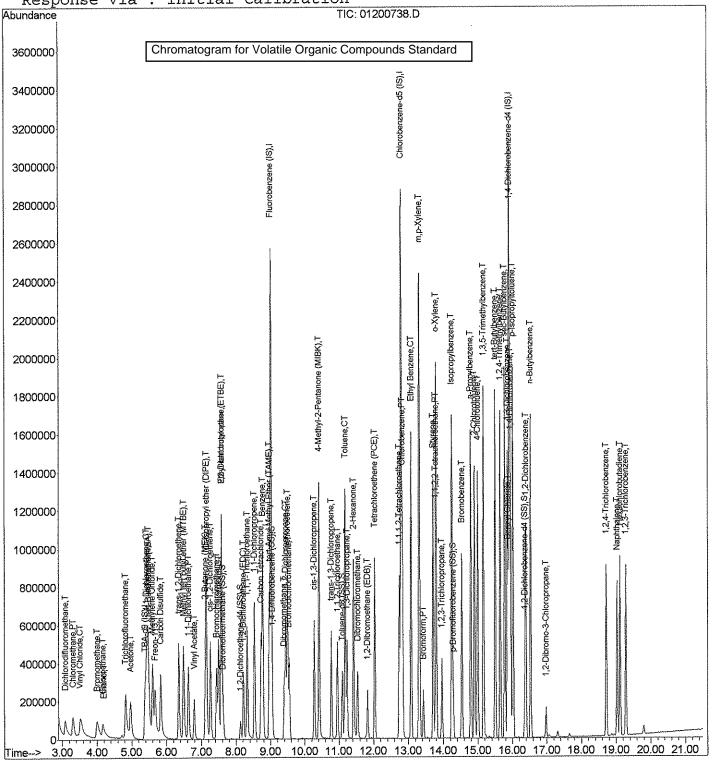
MS Integration Params: rteint.p

Quant Time: Jan 21 9:40 2007 Quant Results File: 87A18826.RES

Method : D:\MSDCHEM\1\METHODS\87C07826.M (RTE Integrator)

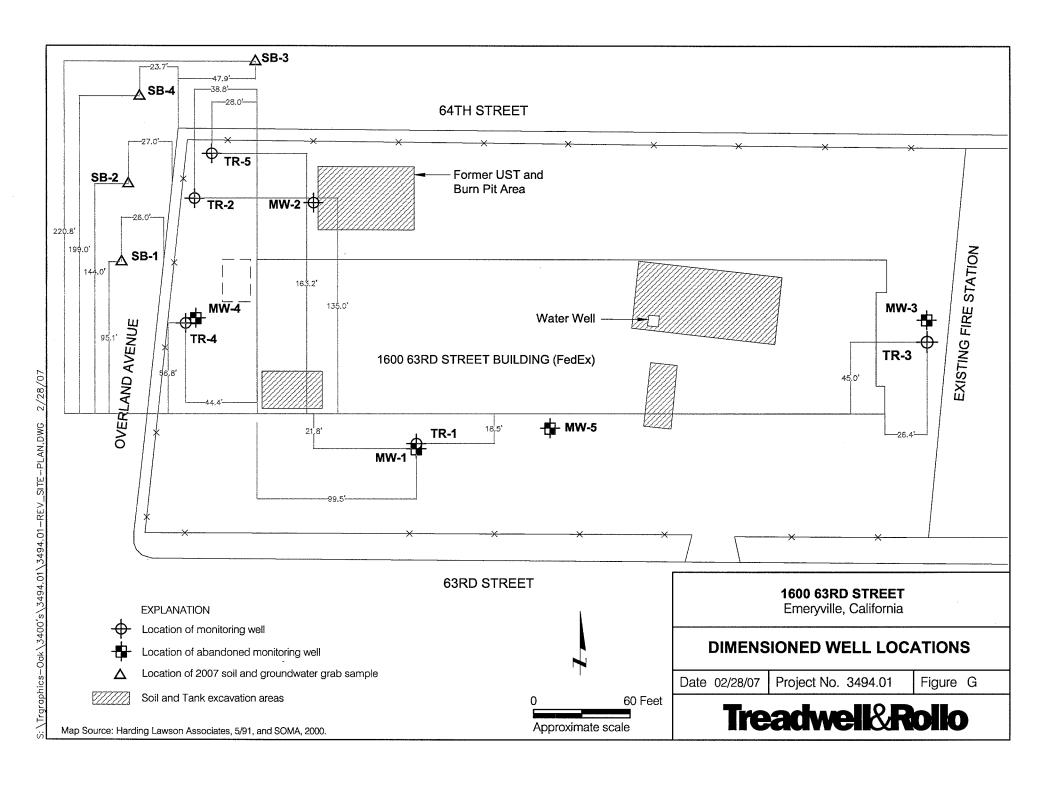
Title : 8260B/624/524.2

Last Update : Thu Mar 08 08:22:12 2007 Response via : Initial Calibration





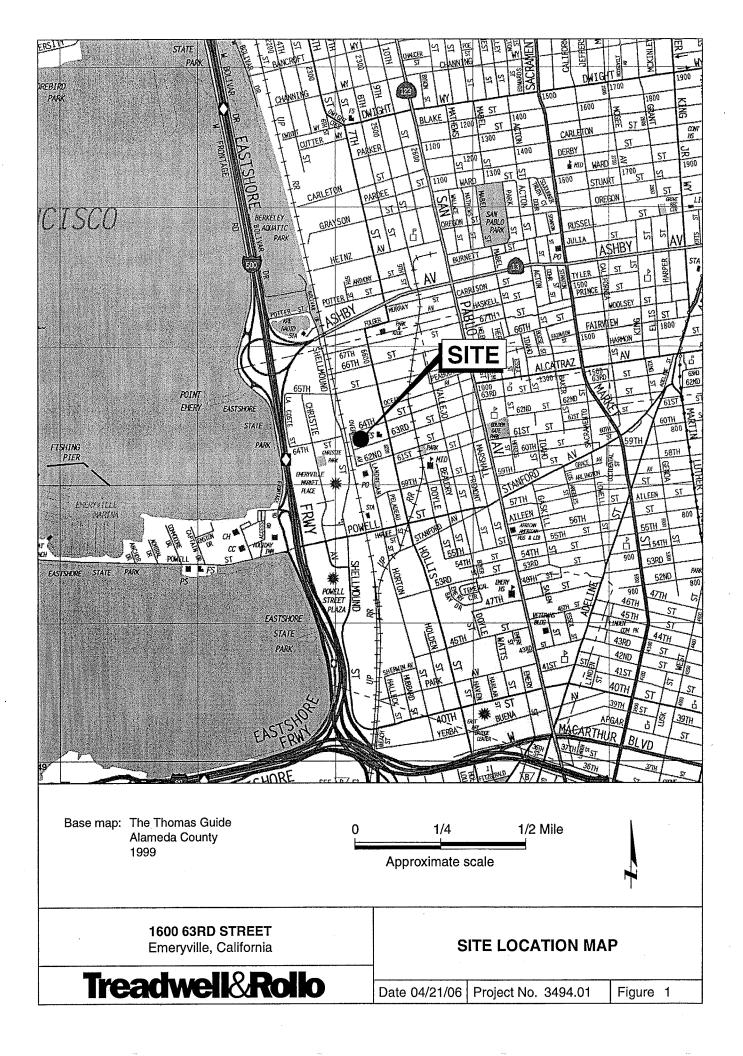
APPENDIX G Dimensioned Well Locations

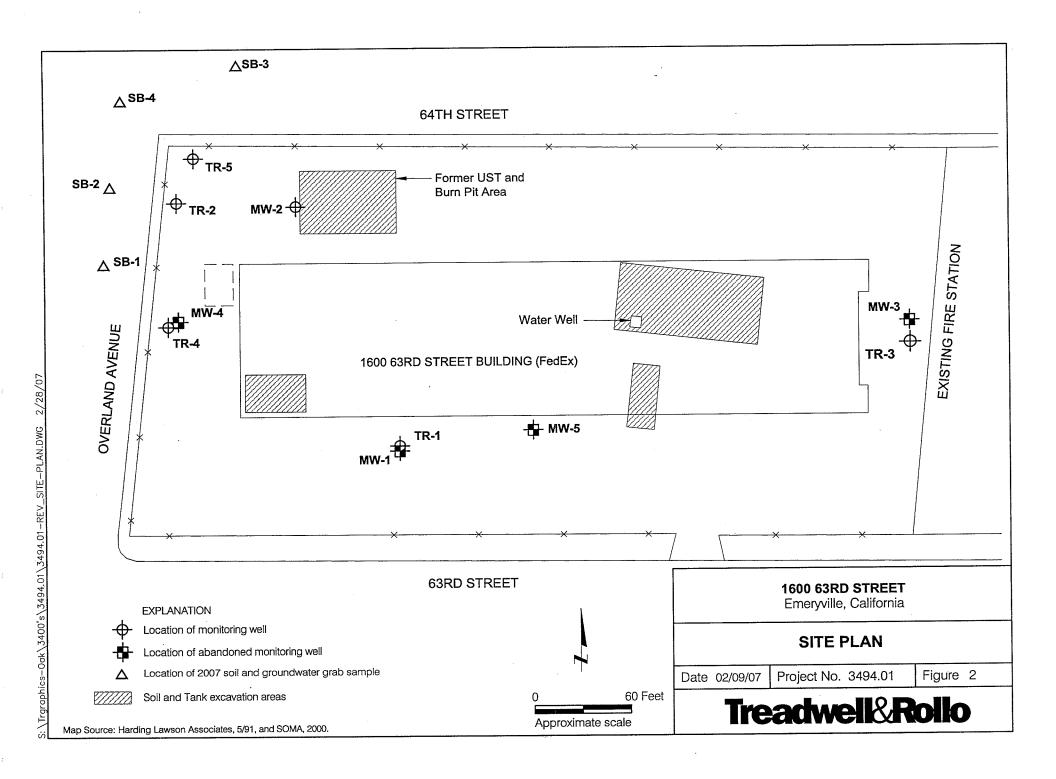




APPENDIX H DWR 188 Forms

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





PRO	OJECT:							D STREET , California	Log of E	Boring TR-1	PAGE 1 OF 1
Bori	ng locatio	n:	See	Site	Plan	 , Figι	ire 2		<u> </u>	Logged by: M. Hall	
	e started:							Date finished: 1/9/07		Drilled By: Precision	n Drilling Co.
Drilli	ing metho	d: D	irect	Pus	h						
Ham	nmer weig	ht/dr	op:	NA				Hammer type: NA			
Sam	pler: 5'	Aceta	ate Li	iner							,
I	SA	MPL	ES		(m)	ιĠΥ		N 4 V TC TO 1	AL DECCDID	OTION	
DEPTH (feet)	Sample	Sample	Blow	Recovery (inches)	OVM (ppm)	LITHOLOGY		MATERIA	AL DESCRIP	TION	
۵	Number	Sar	<u></u> ⊠ S	(inc	8	=			ice Condition	ıs:	
		\ /						FILL			_
1-		$ \setminus $									= -
2-		I X		55/ 60	<5	CL		GRAVELLY CLAY (CL)			
3-	-	/\						brown, stiff, moist, 30 percent s percent medium to coarse grad	sub-angular gra led sand, no od	ivel up to 1-inch, slight lor	ly plastic, 10
4-	-	$\backslash \ \backslash$				<u></u>		CLAY (CL) brown, soft, moist, non-plastic,			
5-	TR-1- 4.5-5.0	•	F			CL		brown, sort, moist, non-plastic,	To bereest mic	rgranica sana, no odo	' <u>-</u>
6-	_	\setminus /						CLAVEV CAND (CC)			
7-		$ \bigvee $		 55/	_		∇	CLAYEY SAND (SC) gray, loose, wet, 10 percent su	b-angular grave	el up to 1/8-inch, slight	ly plastic, _
8-	_	Λ		60	<5	SC	Δ	poorly graded, 30 percent fines	, no odor		_
1	TR-1- 8.0-8.5	, / \						discoloration			
9-	TR-1-	/ \	-					SANDY CLAY (CL) gray, medium stiff, wet, slightly	plactic 25 par	cent fine grained cand	noorly
10-	9.5-10.0	\ /	-			CL		graded, no odor	piastic, 55 per	cent inte-granted sand	, poorly _
11-	-	$ \setminus $									-
12-		ΙV		60/ 60	<5			CLAY (CH)			
13-		$ / \rangle$		60				light brown, soft, wet, very plas	tic, <5 percent	fine-grained sand, poo	orly graded, no _
14-	-	/ /						odoi			_
15-	TR-1- 14.5-15.0	•		:		СН					_
16-	1110 1010	$\ \ /$									_
17-		V		60/	_						
18-		ΙĂ		60	<5	sc		CLAYEY SAND (SC) light brown, dense, wet, non-pla	astic, moderate	ely graded, 20 percent	fines, no odor _
-		/				30			,		·
19-	TR-1-	•	-					CLAY brown, medium stiff, wet, slight	ly plastic 15 ne	ercent fine arained sar	nd noorly
20-	19.5-20.0		•					graded, no odor			id, poorly
21-	1										
22-	-										· _
23-											_
24-	_										_
25-											-
349401.GPJ TR.GDT 3/6/07	-										_
Ĕ 記 27-	1										
6 28-											_
											_
29-											-
TEST ENVIRONMENTAL	ng terminated	at a de	epth of	20 feet		•	•				110 13 - 11 -
Bori Gro	ing terminated ing backfilled v undwater enc	with cer outered	ment gi l at 7.3	rout. feet.						Treadwe	
STE										Project No.: 3494.01	Figure: A-5
F											

			UNIFIED SOIL CLASSIFICATION SYSTEM
M	Major Divisions		Typical Names
200		GW	Well-graded gravels or gravel-sand mixtures, little or no fines
Soils > no. 2	Gravels (More than half of	GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
ν <u>^</u>	coarse fraction >	GM	Silty gravels, gravel-sand-silt mixtures
Coarse-Grained e than half of soil sieve size	no. 4 sieve size)	GC	Clayey gravels, gravel-sand-clay mixtures
Coarse-Grair (more than half of sieve s	0	sw	Well-graded sands or gravelly sands, little or no fines
arse nan l	Sands (More than half of	SP	Poorly-graded sands or gravelly sands, little or no fines
Co ore t	coarse fraction < no. 4 sieve size)	SM	Silty sands, sand-silt mixtures
ow)	110. 4 Sieve Size)	sc	Clayey sands, sand-clay mixtures
soil soil ze)		ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
S 75 15	Silts and Clays LL = < 50	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
-Grained than half 200 sieve		МН	Inorganic silts of high plasticity
	Silts and Clays LL = > 50	СН	Inorganic clays of high plasticity, fat clays
E (m	LL = > 50		Organic silts and clays of high plasticity
High	y Organic Soils	PT	Peat and other highly organic soils

	GRAIN SIZE CHART							
	Range of Gra	ain Sizes						
Classification	U.S. Standard Sieve Size	Grain Size in Millimeters						
Boulders	Above 12"	Above 305						
Cobbles	12" to 3"	305 to 76.2						
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76						
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074						
Silt and Clay	Below No. 200	Below 0.074						

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

<u>¥</u>

Unstabilized groundwater level



Stabilized groundwater level

SAMPLER TYPE

sampler

- C Core barrel
- CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
- D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
- O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube
- PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test

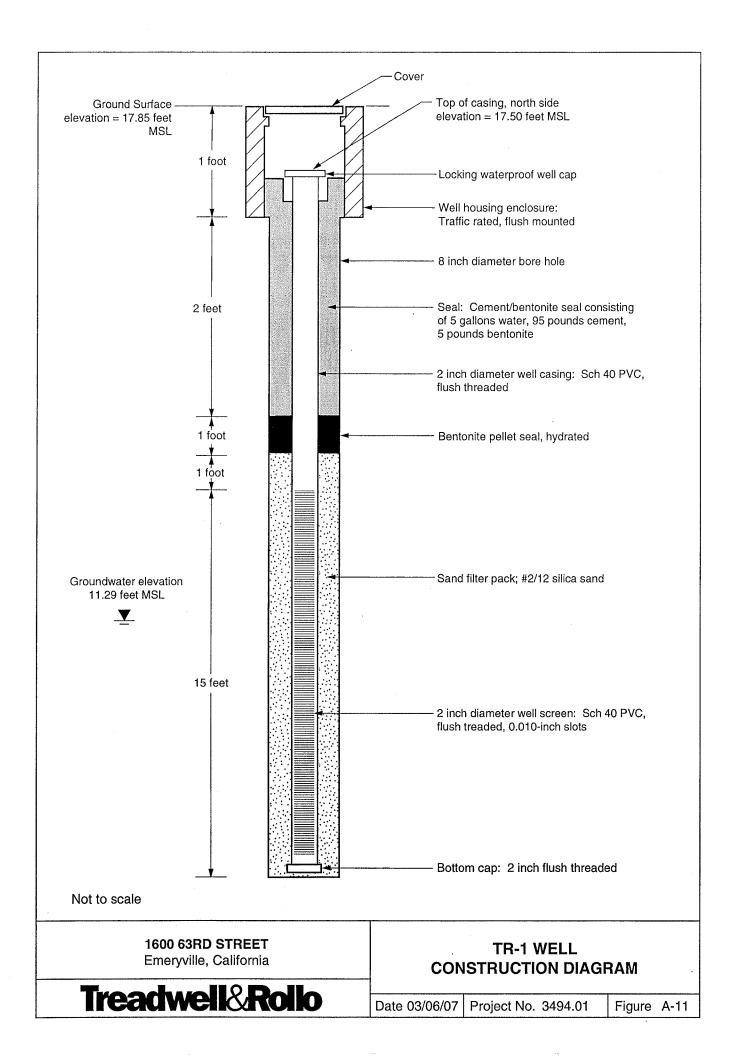
- S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
- SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter
- ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET Emeryville, California

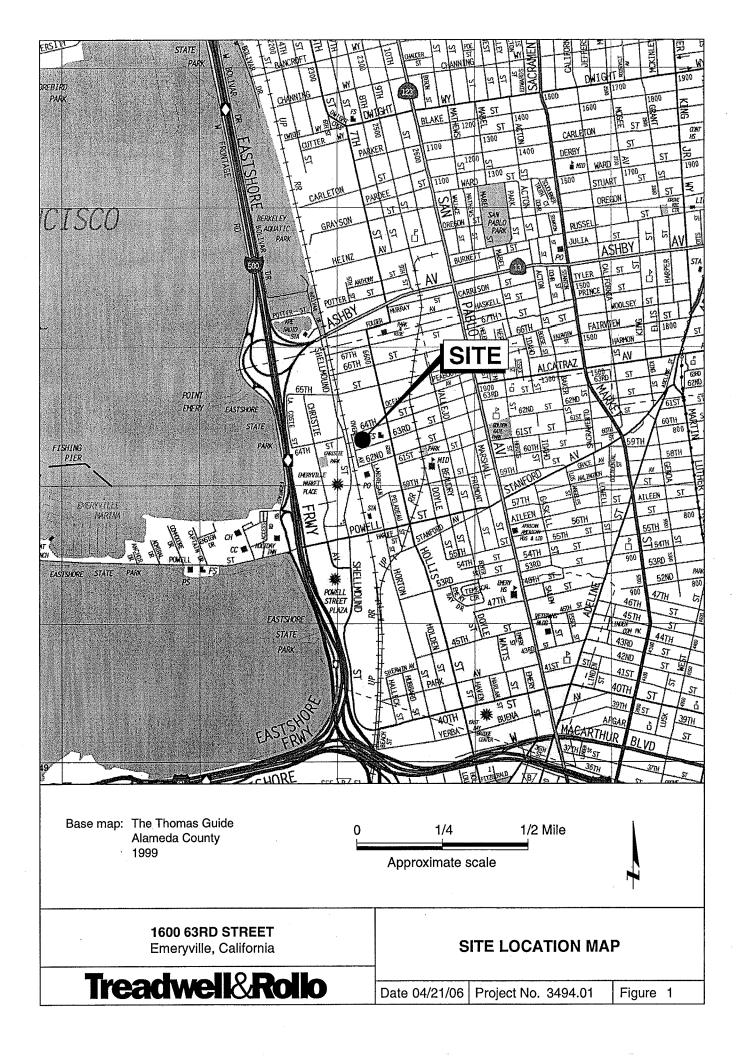
CLASSIFICATION CHART

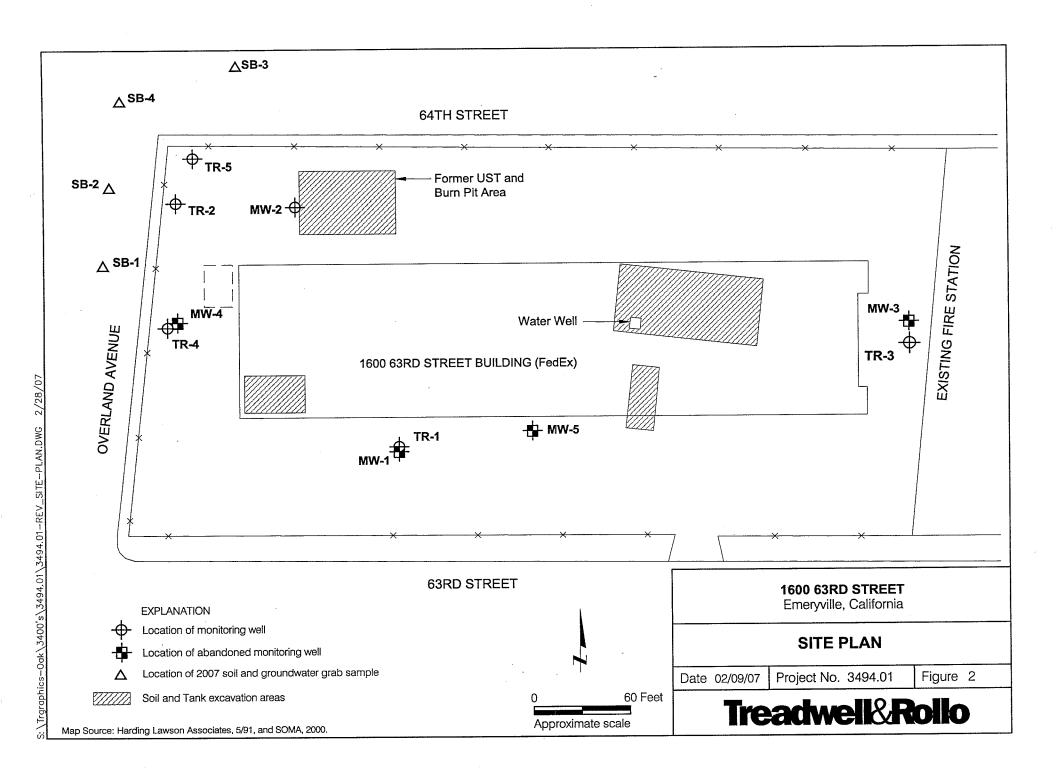
Treadwell&Rollo

Date 03/02/07 | Project No. 3494.01



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





PRO	DJECT:						63RD STREET ville, California	Log of E	Boring TR-2 PAGE 1 OF 1
Borir	g locatio	n: ;	See S	Site I	Plan	, Figu	ure 2		Logged by: M. Hall
	started:						Date finished: 1/9/07		Drilled By: Precision Drilling Co.
	Drilling method: Direct Push								
_	mer weig						Hammer type: NA		
Sam		Aceta		ner		Ι.	<u></u>		
DEPTH (feet)	Sample	Sample		Recovery (inches)	OVM (ppm)	LITHOLOGY		AL DESCRIP	
	Number	Sa	ш ()	E &	ó	5	Surfa FILL	ice Condition	s:
1— 2— 3—				60/ 60	<5		SANDY CLAY (CL)		- FILL
4 5 6	TR-2- 4.5-5.0	•	-	004		CL	dark brown, soft, moist, plastic, odor	35 percent fine	e-grained sand, poorly graded, no
7 8 9		$ \Lambda $		60/ 60	<5		☑ CLAY with SAND (CL) gray, medium stiff, moist, slight	ly plastic, 20 pe	ercent fine-grained sand, poorly
10— 11—	TR-2- 9.5-10.0	•	-			CL	graded, no odor, slight petroleu	ım	
12— 13— 14—		$\left \right\rangle \left \right\rangle$		55/ 60	10		SANDY CLAY (CL) gray, very plastic, 40 percent fil	ne-grained sand	d, poorly graded, moderate odor
15— 16—	TR-2- 14.5-15.0	•	-			CL			- -
17— 18—		X		60/ 60	10		SAND with SILT and GRAVEL	(SP-SM)	
19— 20—	TR-2- 19.5-20.0	/ \ •	-			SP- SM	gray, moderately dense, wet, 3 moderate odor	0 percent sub-a	ingular gravel, 10 percent fines,
21— 22—									
23— 24—									
25— 26—									_ _
27— 28— 29—									
Borin	g terminated g backfilled v	ith cem	nent gro	out.					Treadwell&Rollo
									Project No.: Figure: A-6

			UNIFIED SOIL CLASSIFICATION SYSTEM
М	Major Divisions		Typical Names
200	_	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
Soils > no. 2	Gravels (More than half of	GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
ιχ <u>γ</u>	coarse fraction >	GM	Silty gravels, gravel-sand-silt mixtures
	no. 4 sieve size)	GC	Clayey gravels, gravel-sand-clay mixtures
Coarse-Grair (more than half of sieve s	Sands	S.W	Well-graded sands or gravelly sands, little or no fines
arse nan l	(More than half of	SP	Poorly-graded sands or gravelly sands, little or no fines
S e t	coarse fraction < no. 4 sieve size)	SM	Silty sands, sand-silt mixtures
m)	110. 4 31646 3126/	SC	Clayey sands, sand-clay mixtures
soil soil ze)		ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
Sc of of si	Silts and Clays LL = < 50	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
ined s half a sieve		OL	Organic silts and organic silt-clays of low plasticity
-Grained than half 200 sieve		МН	Inorganic silts of high plasticity
Fine -(more t < no. 2	Silts and Clays	СН	Inorganic clays of high plasticity, fat clays
iĒĖ,	i i i		Organic silts and clays of high plasticity
Highl	y Organic Soils	PT	Peat and other highly organic soils

	GRAIN SIZE CHART							
	Range of Grain Sizes							
Classification	U.S. Standard Sieve Size	Grain Size in Millimeters						
Boulders	Above 12"	Above 305						
Cobbles	12" to 3"	305 to 76.2						
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76						
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074						
Silt and Clay	Below No. 200	Below 0.074						

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered Classification sample taken with Standard Penetration Test sampler Undisturbed sample taken with thin-walled tube Disturbed sample Sampling attempted with no recovery Core sample Analytical laboratory sample Sample taken with Direct Push sampler

SAMPLE DESIGNATIONS/SYMBOLS

SAMPLER TYPE

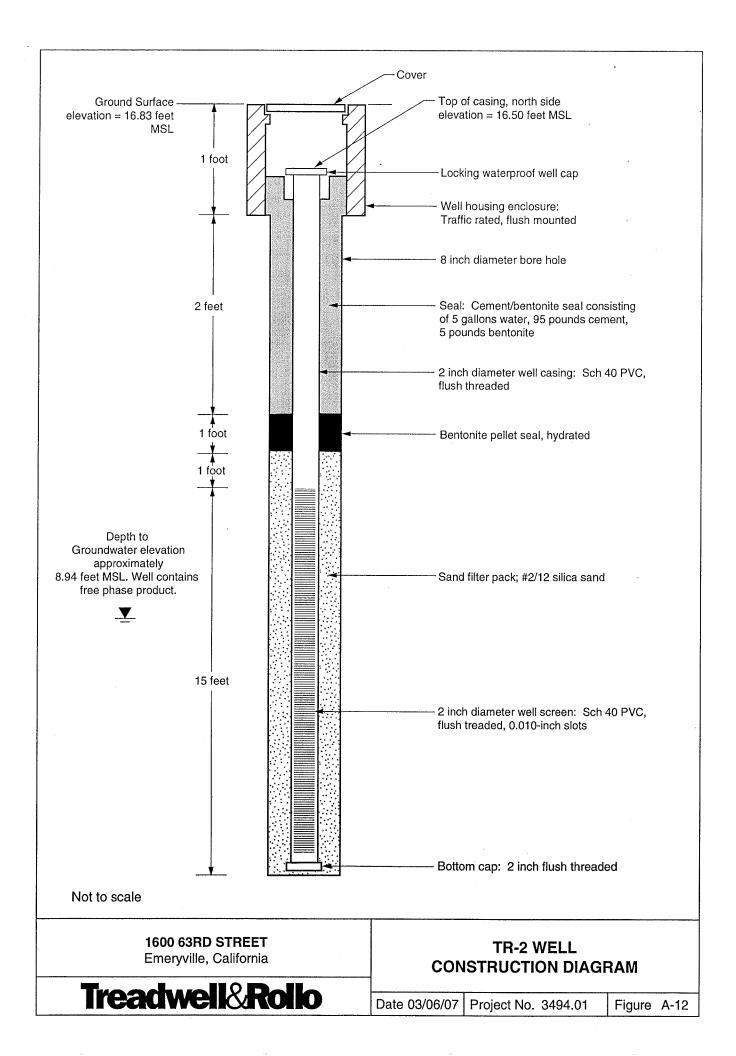
- C Core barrel
- CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
- D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
- O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube
- PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube
- S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
- SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter
- ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET Emeryville, California

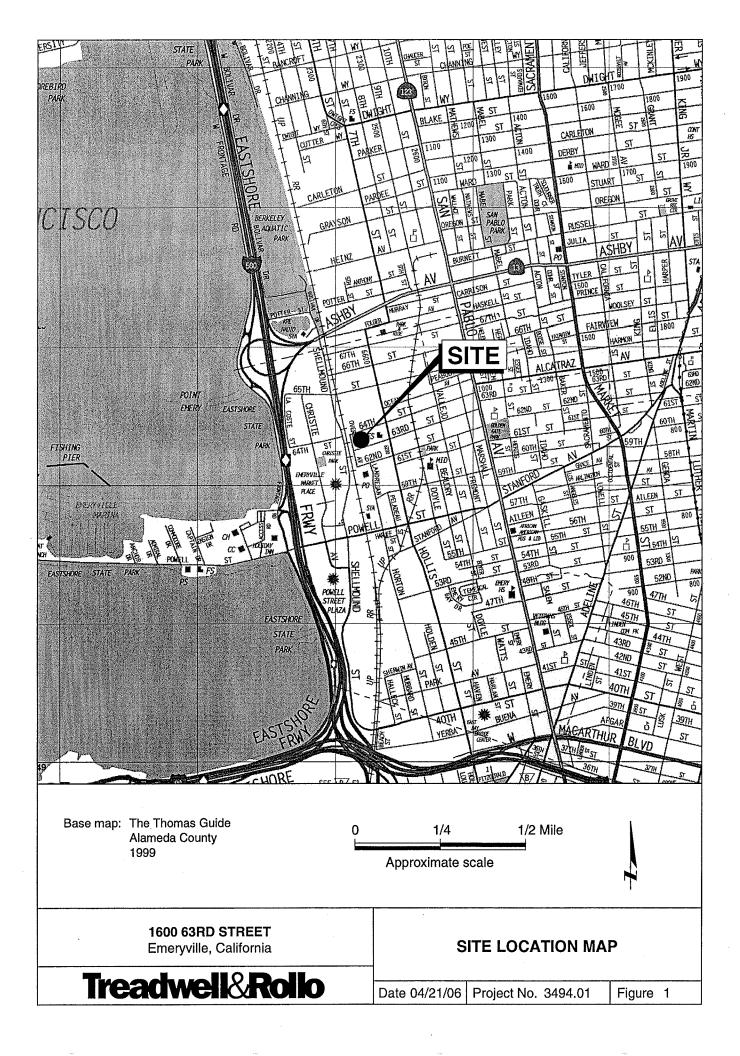
CLASSIFICATION CHART

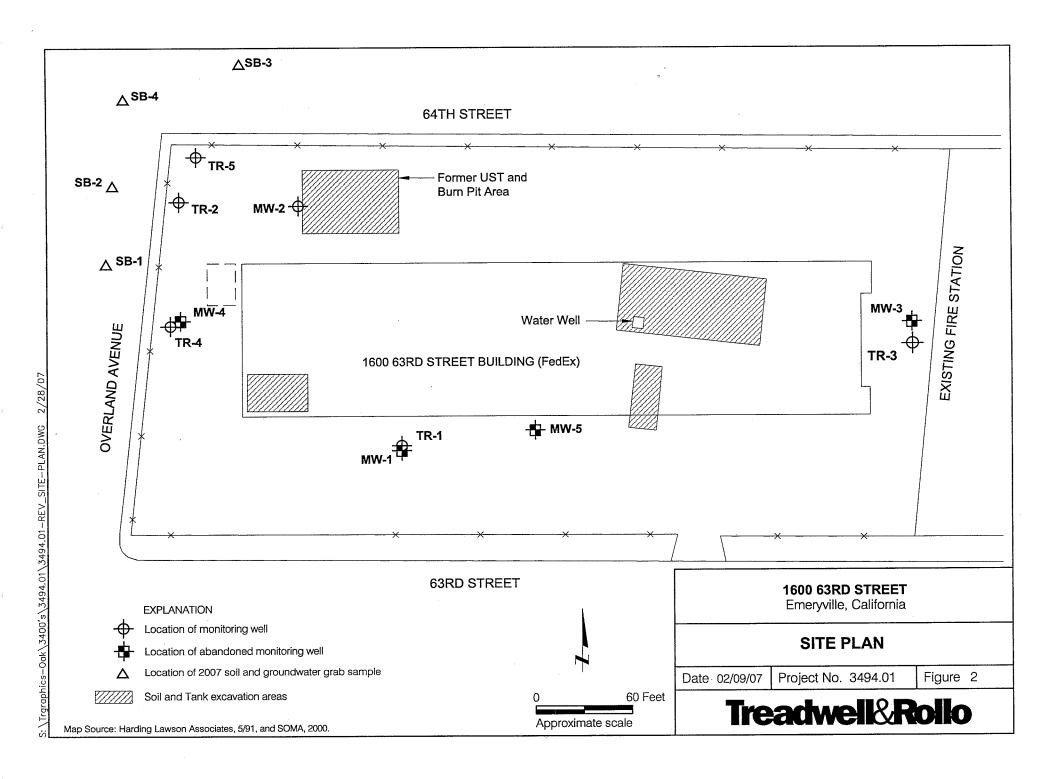
Treadwell&Rollo

Date 03/02/07 | Project No. 3494.01



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





PR	OJECT:						63RD STREET yville, California	Log of E	Boring TR-3	PAGE 1 O	F 1
Bori	ng locatio	n:	See	Site	Plan	, Figı	ure 2		Logged by: M. Hal		
l	started:						Date finished: 1/9/07	Drilled By: Precisi	on Drilling Co.		
	ng metho				h						
	mer weig						Hammer type: NA				
Sam	pler: 5'	Aceta AMPL		iner	Τ_	T					
DEPTH (feet)		· · · · · ·		is e	OVM (ppm)	LITHOLOGY	MATERIA	AL DESCRIP	TION		
日 新	Sample Number	Sample	Blow	Recovery (inches)	MV0	HH	Surfa	ce Condition	S.		
	-	\ /		 			FILL	oo oonanon	<u>. </u>		A
1-		$ \setminus / $		ļ						Ī	킔-
2-	1	ΙX		60/ 60	<5		CLAY (CL)				
3-		[/\					black, soft, moist, plastic, 10 pe	rcent fine sand	poorly graded, wea	k odor	_
4-		$V\setminus$				CL					
5-	TR-3- 4.5-5.0	•	_								
6-		$\setminus /$		-		ļ	SAND with GRAVEL (SP)				
7		$ \bigvee $		60/	<5	SP	brown, moderately dense, 35 pe	ercent angular	to sub-angular, non-	plastic, <5	
8		$ \wedge $		60	\ \ 3		□ percent fines, moderately grade	d, no odor			
9		// \I					CLAY with GRAVEL (CL) brown, medium stiff, moist, 10 p	ercent sub-and	gular gravels less tha	an 1/8-inch,	
10-	TR-3-	•	-				plastic, 5 percent fine-grained s	and, poorly gra	ided, no odor	•	
	9.5-10.0	\ /	_								
11—		$ \setminus / $		401		CL					_
12-		X		42/ 60	<5			•			_
13-		/									_
14—			_						•		
15—	TR-3- 14.5-15.0	• \	-				CLAYEY SAND (SC)				
16-		\ /				sc	brown, moderately dense, mois moderately graded, 35 percent	t, 5 percent sub fines, no odor	o-angular gravel, slig	htly plastic,	-
17—		Y		60/	<5	<u> </u>	CLAY (CL)				
18		$ \Lambda $		60		۵.	brown, medium stiff, moist, plas	tic, 10 percent	fine-grained sand, p	oorly graded,	_
19—		$V\setminus V$				CL	110 0001		•		_
20-	TR-3- 19.5-20.0	•	-						· · · · · · · · · · · · · · · · · · ·		
21—					,						
22-											_
23-											
24-											
										*	
25—											-
26-							,				. —
27—						-					
28-			,								
29—											-
30-				L		l					
Borir Borir Grou	ng terminated ng backfilled w andwater enco	ith cen	ent gr	rout.			•		Treadwe	ell&Rollo	
3,50									Project No.:	Figure:	
25— 26— 27— 28— 29— 30— Boring Boring Ground									3494.01	l ,	A-7

	· · · · · · · · · · · · · · · · · · ·		UNIFIED SOIL CLASSIFICATION SYSTEM
М	Major Divisions		Typical Names
200		GW	Well-graded gravels or gravel-sand mixtures, little or no fines
Soils > no. 2	Gravels (More than half of	GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
ιχ ^	coarse fraction >	GM	Silty gravels, gravel-sand-silt mixtures
ined of soil size	no. 4 sieve size)	GC	Clayey gravels, gravel-sand-clay mixtures
Coarse-Grained (more than half of soil sieve size	01-	sw	Well-graded sands or gravelly sands, little or no fines
arse lan b	Sands (More than half of	SP	Poorly-graded sands or gravelly sands, little or no fines
S ez	coarse fraction < no. 4 sieve size)	SM	Silty sands, sand-silt mixtures
(mo	110. 4 Sieve Size)	sc	Clayey sands, sand-clay mixtures
soil ze)		ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
1 % 7 is 1	Silts and Clays LL = < 50	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
ined S half α sieve		OL	Organic silts and organic silt-clays of low plasticity
-Grained than half 200 sieve	-	МН	Inorganic silts of high plasticity
Fine -(more the contract of t	Silts and Clays LL = > 50	СН	Inorganic clays of high plasticity, fat clays
Fil (m)	OO	ОН	Organic silts and clays of high plasticity
High	y Organic Soils	PT	Peat and other highly organic soils

	GRAIN SIZE CHART							
	Range of Gra	ain Sizes						
Classification	U.S. Standard Sieve Size	Grain Size in Millimeters						
Boulders	Above 12"	Above 305						
Cobbles	12" to 3"	305 to 76.2						
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76						
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074						
Silt and Clay	Below No. 200	Below 0.074						

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

 $\underline{\nabla}$

Unstabilized groundwater level



Stabilized groundwater level

O h a mal

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

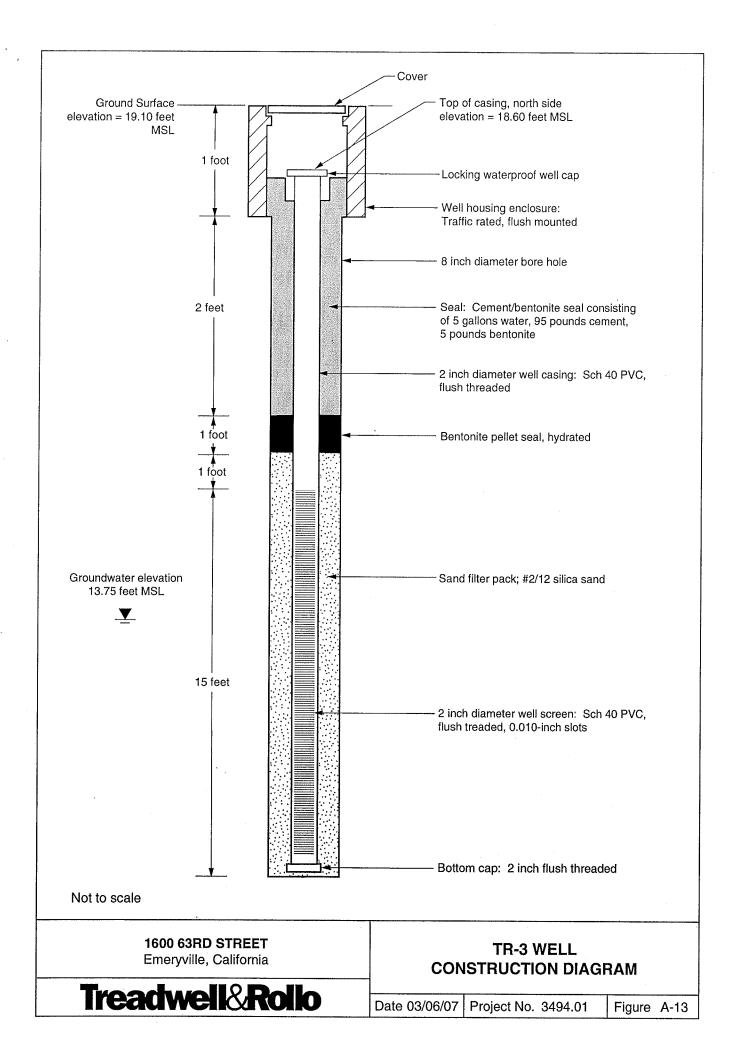
ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET Emeryville, California

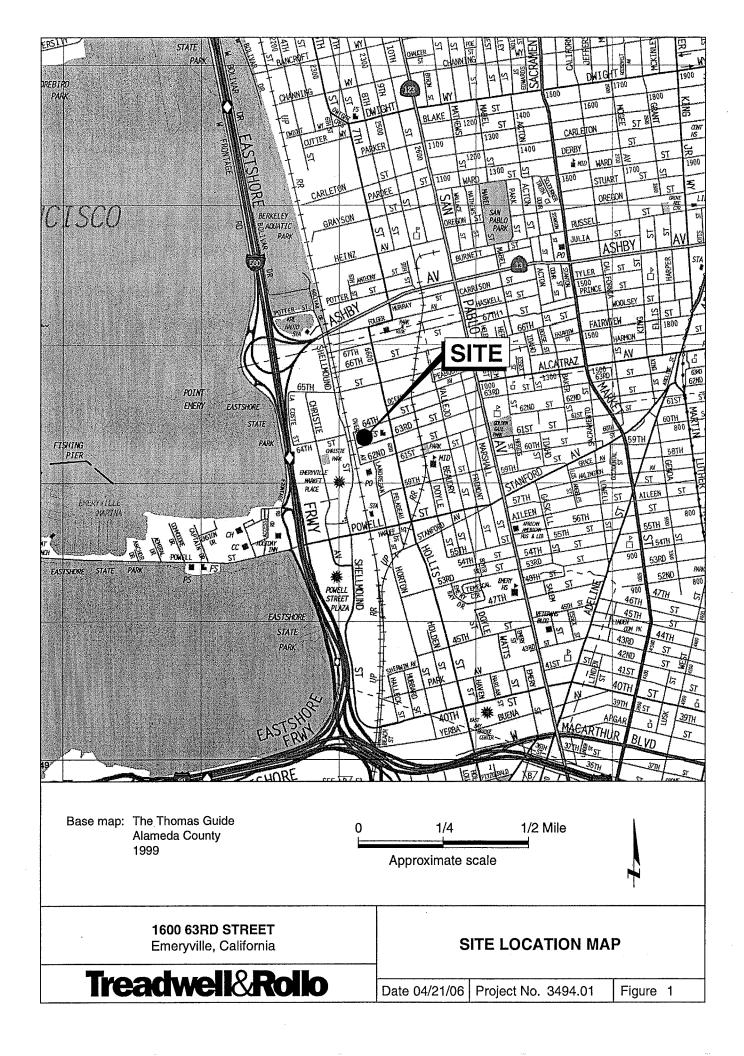
Treadwell&Rollo

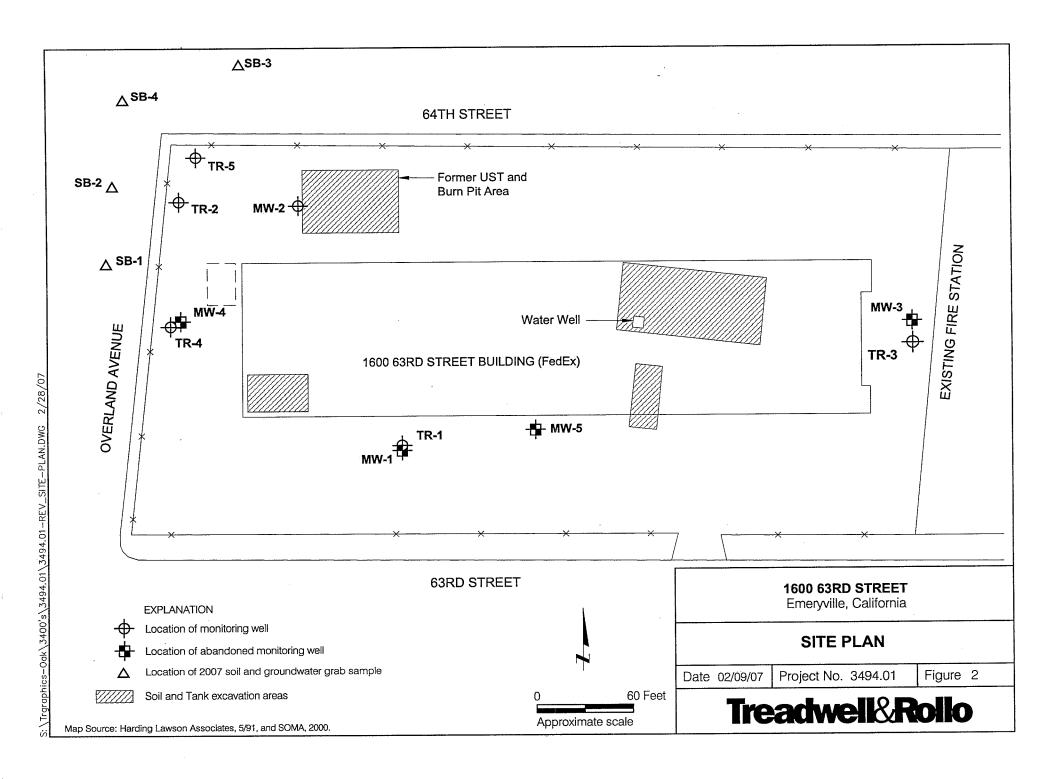
CLASSIFICATION CHART

Date 03/02/07 | Project No. 3494.01



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





PRO	DJECT:					63RD STREET ville, California	Log of E	Boring TR-4	PAGE 1 O)F 1
Borin	ng location	n: S	ee Site	Plan	, Figu	ure 2		Logged by: M. Hall Drilled By: Precision	an Drilling Co	
	started:					Date finished: 1/9/07		Diffied by. Frecision	on brilling Co.	
·	ng metho			sh						
	mer weig					Hammer type: NA				
 	pler: 5'	ACETAL		T	T>-					
DEPTH (feet)	Sample	T T	Count Recovery (inches)	OVM (ppm)	гітногосу	MATERIA	AL DESCRIP	TION		
Ω	Number	Sa	2 8 E	б	5		ce Condition	s:		
1— 2— 3—			50/ 60			SAND with CLAY (SP-SC)	t non plastic r	nadoratoly graded 1		1
5— 6—	TR-4- 4.5-5.0	•			SP- SC	brown, moderately dense, mois no odor SANDY CLAY (CL)	-			
7— 8— 9—	TR-4- 8.5-9.0	•	55/ 60		CL	dark brown, soft, wet, slightly pi moderately graded, no odor some staining ✓ CLAY with SAND (CL)	lastic, 20 perce	nt fine to medium-gr	ained sand,	_
10— 11— 12—	TR-4- 9.5-10.0	·	60/ 60		CL		ercent fine-grai	ned sand, poorly gra	ded, no odor	_ _ _
13 14 15	TR-4- 14.5-15.0				SP- SC CL	SAND with CLAY (SP-SC) brown, moderately dense, mois moderately graded, 10 percent CLAY (CL)	fines, no odor			
16— 17— 18—			60/ 60	<5	SP	brown, medium stiff, moist, plas no odor SAND with GRAVEL (SP) brown, loose, moist, 40 percent moderately graded, no odor CLAY (CL) brown, medium stiff, moist, plas	sub-angular g	ravel up to 0.5-inch,	non-plastic,	
19— 20— 21—	TR-4- 19.5-20.0	/ \ -				no odor	siic, 10 percent	ime-gramed sand, p	oony graded,	
22-										-
23—										-
≥4-										
25—										
26—										
27—										
28-										_
ਲੈਂ ਰੂ 29—										_
30-										
≚ Borir	ng terminated ng backfilled v indwater enco	vith ceme	ent grout.	et.		•		Treadwo	ell&Rollo)
IEST S								Project No.: 3494.01	Figure:	A-8

			UNIFIED SOIL CLASSIFICATION SYSTEM
M	Major Divisions		Typical Names
200		GW	Well-graded gravels or gravel-sand mixtures, little or no fines
Soils	Gravels (More than half of	GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
1	coarse fraction >	GM	Silty gravels, gravel-sand-silt mixtures
	no. 4 sieve size)	GC	Clayey gravels, gravel-sand-clay mixtures
Coarse-Grained (more than half of soil sieve size	Canala	SW	Well-graded sands or gravelly sands, little or no fines
arse	Sands (More than half of	SP	Poorly-graded sands or gravelly sands, little or no fines
Co Fre	coarse fraction < no. 4 sieve size)	SM	Silty sands, sand-silt mixtures
(mc	110. 4 Sieve Size)	sc	Clayey sands, sand-clay mixtures
e) ii (e)		ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
Soils of soil size)	Silts and Clays LL = < 50	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
ined S half o		OL	Organic silts and organic silt-clays of low plasticity
-Grained than half 200 sieve	,	мн	Inorganic silts of high plasticity
Fine -(more t	Silts and Clays LL = > 50	СН	Inorganic clays of high plasticity, fat clays
iĒĒ V	E E V		Organic silts and clays of high plasticity
Highl	y Organic Soils	PT	Peat and other highly organic soils

GRAIN SIZE CHART				
	Range of Grain Sizes			
Classification	U.S. Standard Sieve Size	Grain Size in Millimeters		
Boulders	Above 12"	Above 305		
Cobbles	12" to 3"	305 to 76.2		
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76		
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074		
Silt and Clay	Below No. 200	Below 0.074		

fine 3/4" to No. 4 19.1 to 4.76

Sand No. 4 to No. 200 4.76 to 0.074
coarse No. 4 to No. 10 4.76 to 2.00
medium No. 10 to No. 40 2.00 to 0.420
fine No. 40 to No. 200 0.420 to 0.074

Silt and Clay Below No. 200 Below 0.074

Unstabilized groundwater level

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered Classification sample taken with Standard Penetration Test sampler Undisturbed sample taken with thin-walled tube Disturbed sample Sampling attempted with no recovery Core sample Analytical laboratory sample Sample taken with Direct Push sampler SAMPLER TYPE

SAMPLE DESIGNATIONS/SYMBOLS

SAMPLER

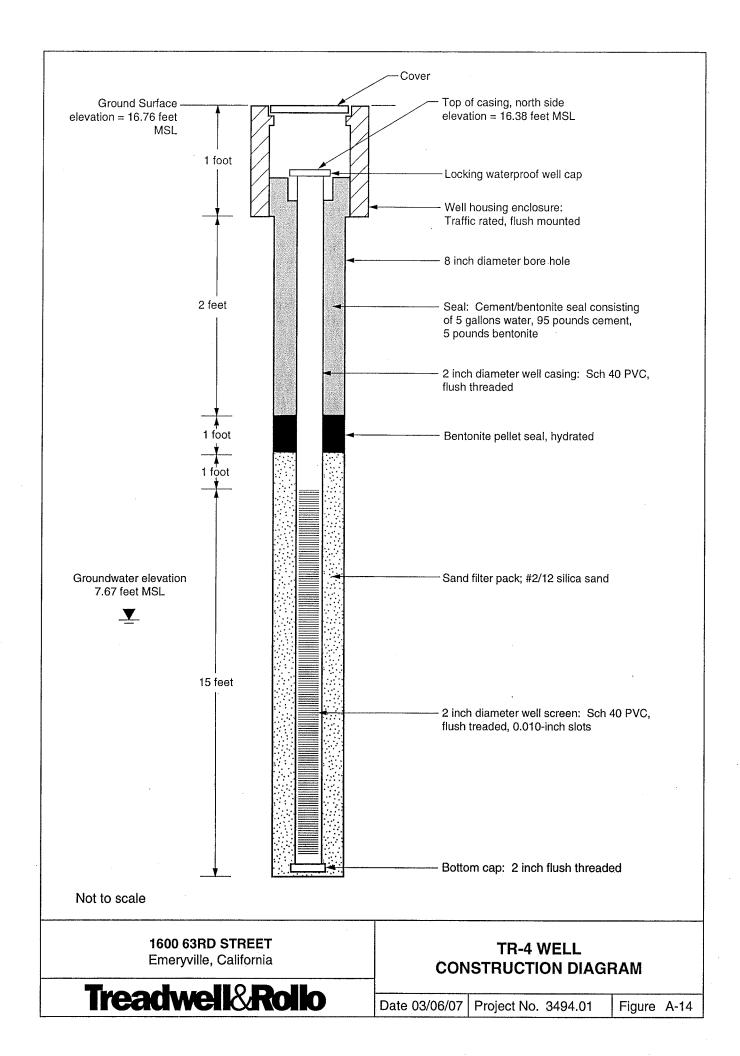
- C Core barrel
- CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter
- D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube
- O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube
- PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube
- S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter
- SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter
- ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET Emeryville, California

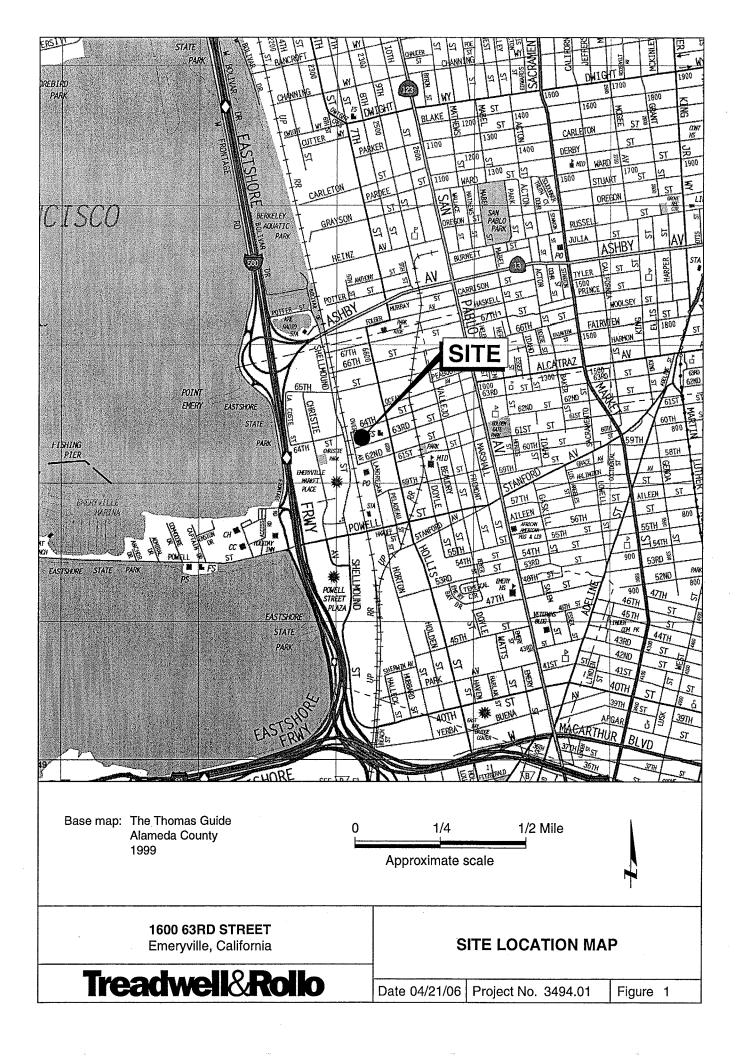
CLASSIFICATION CHART

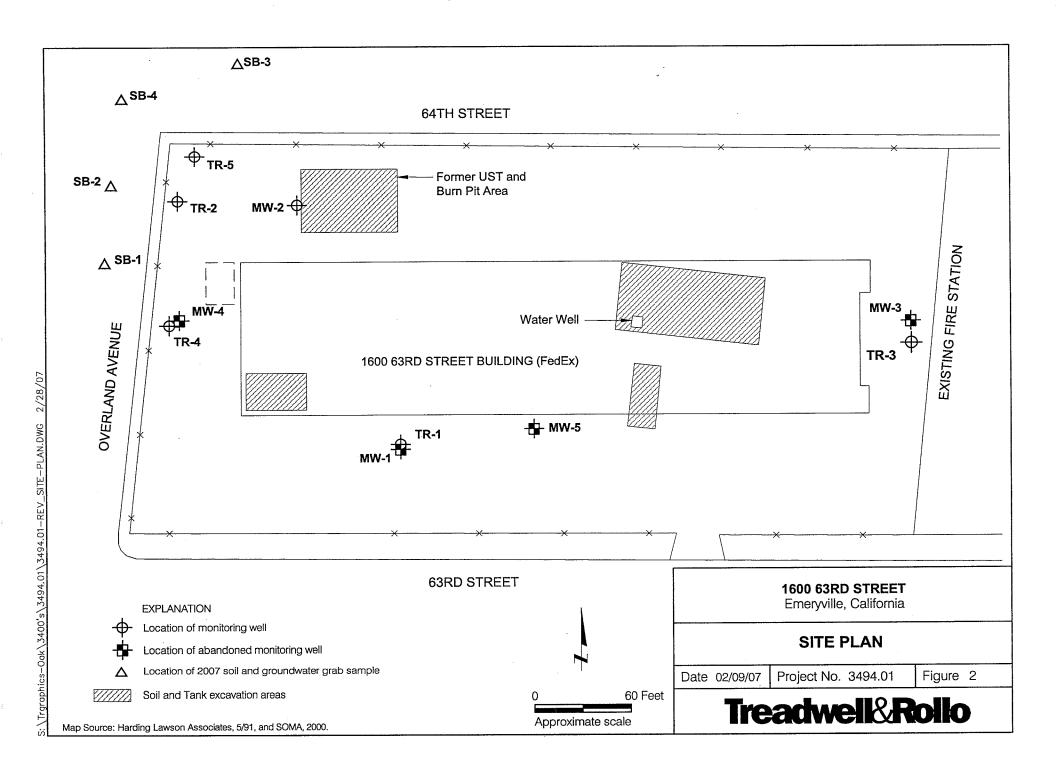
Treadwell&Rollo

Date 03/02/07 Project No. 3494.01



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)





Boring location: Date started: 1/9 Drilling method: Hammer weight/d	See		PROJECT: 1600 63RD STR Emeryville, Califo				Boring TR-5	GE 1 OF
Drilling method:		Site	Plan	, Figu			Logged by: M. Hall Drilled By: Precision Drilli	ing Co
				Date finished: 1/9/07				
Hammer weight/d			h					
Sampler: 5' Ace					Hammer type: NA			
SAMP		inei	Γ	T ≻	,			
<u> </u>	T	ery (s)	ecovery inches) OVM (ppm)		MATER	AL DESCRIP	TION	
Samble Samble Sample	Blow	Recovery (inches)	(inche OVM	LITHOLOGY	Surf	ace Condition	S'	
	1				FILL	aco Condition	J.	
1- \	/							=
2- \		60/ 60	<5					Ē
3- \		00			CLAY with SAND (CL)			
4-	\setminus				dark brown, soft, moist, plastic	, 20 percent fine	e-grained sand, poorly grad	ed, no
5- TR-5- 4.5-5.0	‡			CL	odor			
6 4.5-5.0	Λ							
		50/		L				
7-		60	<5		CLAY (CL) brown, stiff, moist, plastic, 10 p	percent fine-grain	ned sand no odor	
8- /\	, l				$\underline{\nabla}$ brown, stiff, moist, plastic, 10 p	bercent lille-grail	neu sanu, no ouor	٠
9-	1			CL				
10 - TR-5- 9.5-10.0	+							
11- \ /	/			CL	SANDY CLAY (CL)			
12-		50/	15		brown, soft, wet, 10 percent su fine-grained sand, weak odor	ıb-angular grave	el up to 0.25-inch, plastic, 30) percent
13		60 13		CL	CLAY (CL)			
14	\bigvee				brown, stiff, moist, plastic,10 p CLAYEY SAND with GRAVEL	(SC)		
15— TR-5-	<u> </u>			SC	gray, dense, moist, 30 percent moderately graded, 20 percent	sub-angular gra	avel up to 0.25-inch, non-pla	astic,
16-14.5-15.0	/							
\/		60/		_,	CLAY (CL) gray, stiff, wet, plastic, 10 perc	ent fine-grained	sand poorly graded no od	lor
1/-		60/	<5	CL	3.27, 2, 1.34 plastic, 13 perc	gramou	January gradou, no ou	~1
18- /\					SAND with GRAVEL (SP)	th angular are:	olup to 0 E inch === =!==+!	
19— TR-5-	1			SP	gray, dense, wet, 40 percent s moderately graded, slight odor	ub-angular grave	ei up to v.o-inch, non-piasti	ú,
20 19.5-20.0					·			
21—								
22-							. ·	
23-								
24-								
25—								
26-								
27—								
28-								
29—								
30		20.5		LI		r		
Boring terminated at a d Boring backfilled with ce Groundwater encoutere	ment gr	out.			•		Treadwell&F	Rollo
Sansarator oriodatoro	0.2						Project No.: 3494.01 Figure:	

UNIFIED SOIL CLASSIFICATION SYSTEM				
М	Major Divisions Syr		Typical Names	
00	Gravels (More than half of	GW	Well-graded gravels or gravel-sand mixtures, little or no fines	
Soils > no. 2		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines	
	coarse fraction >	GM	Silty gravels, gravel-sand-silt mixtures	
aine of sc	no. 4 sieve size)	GC	Clayey gravels, gravel-sand-clay mixtures	
Coarse-Grained e than half of soil sieve size	nalf of leve	sw	Well-graded sands or gravelly sands, little or no fines	
arse lan h	Sands (More than half of	SP	Poorly-graded sands or gravelly sands, little or no fines	
	coarse fraction < no. 4 sieve size)	SM	Silty sands, sand-silt mixtures	
om)		sc	Clayey sands, sand-clay mixtures	
soil soil ize)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts	
S 7 (S)		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays	
		OL	Organic silts and organic silt-clays of low plasticity	
Gra har 200		МН	Inorganic silts of high plasticity	
	Silts and Clays LL = > 50	СН	Inorganic clays of high plasticity, fat clays	
		ОН	Organic silts and clays of high plasticity	
Highly Organic Soils PT Peat and other highly organic soils		Peat and other highly organic soils		

GRAIN SIZE CHART				
	Range of Grain Sizes			
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Silt and Clay	Below No. 200	Below 0.074		

Unstabilized groundwater level



Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample



Analytical laboratory sample



Sample taken with Direct Push sampler

SAMPLER TYPE

С Core barrel

California split-barrel sampler with 2.5-inch outside CA diameter and a 1.93-inch inside diameter

Dames & Moore piston sampler using 2.5-inch outside Ď&M diameter, thin-walled tube

Osterberg piston sampler using 3.0-inch outside 0 diameter, thin-walled Shelby tube

Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

Sprague & Henwood split-barrel sampler with a 3.0-inch S&H outside diameter and a 2.43-inch inside diameter

Standard Penetration Test (SPT) split-barrel sampler with SPT a 2.0-inch outside diameter and a 1.5-inch inside diameter

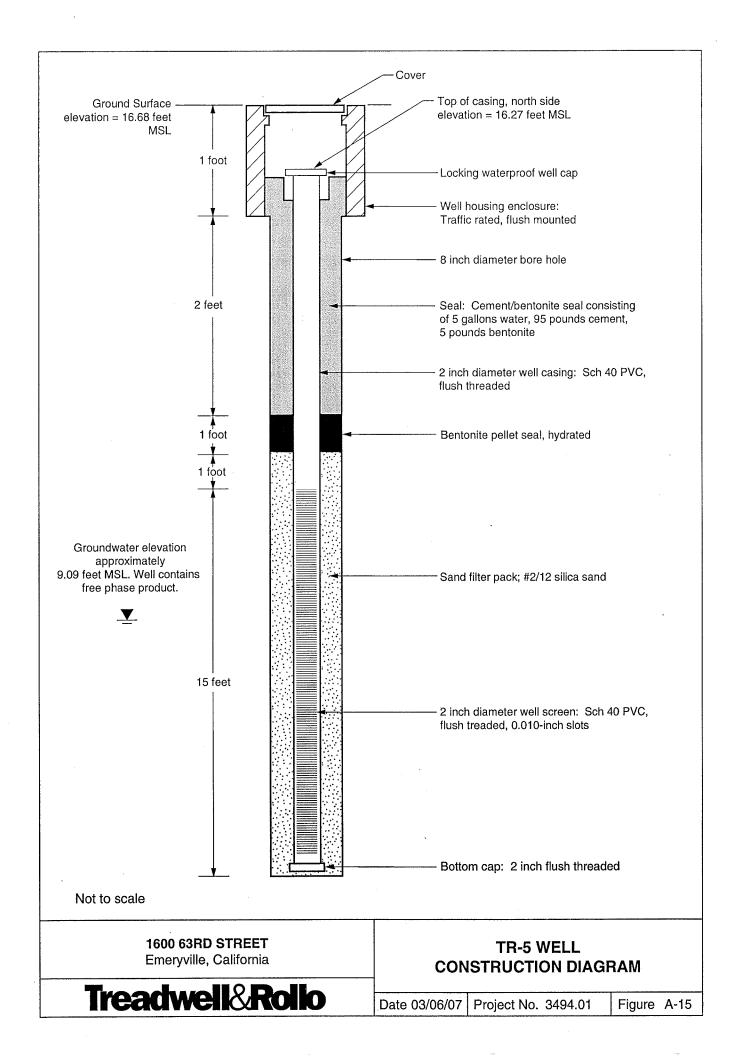
Shelby Tube (3.0-inch outside diameter, thin-walled tube) ST advanced with hydraulic pressure

1600 63 STREET Emeryville, California

CLASSIFICATION CHART

readwell&Rollo

Date 03/02/07 Project No. 3494.01



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

