RECEIVED

4:37 pm, Dec 07, 2009

Alameda County Environmental Health Paulette Satterley 14601 Guadalupe Dr. Rancho Murieta, Ca 95683 Telephone 916-768-2003

November 30, 2009

Ms. Barbara Jakub Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Fuel Leak Case No: RO0000133

Enclosed please find the Semi Annual 2009 Groundwater Monitoring Report for the former City of Paris Cleaners site located at 3516 Adeline Street, Oakland, CA 94608 and dated November 30, 2009. This report was prepared by Taber Consultants of West Sacramento, California.

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

Sincerely,

Paulette Satterley

Paulette Satterley

SECOND SEMIANNUAL MONITORING REPORT 2009

Former City of Paris Cleaners 3516 Adeline Street Oakland, California 94608

USTCF Claim #002192

Prepared For:

Ms. Paulette Satterley 14601 Guadalupe Drive Rancho Murieta, CA 95683

Prepared By:

Taber Consultants 3911 West Capitol Avenue West Sacramento, CA 95691

Project # 051074

November 25, 2009



www.taberconsultants.com

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Project Description	1
1.2	Site Location and Description	1
1.3	Chronological Site History and Previous Subsurface Investigations	1
2.0	GROUNDWATER MONITORING, SAMPLING, AND ANALYSIS	4
2.1	Groundwater Monitoring	4
2.2	Groundwater Sampling and Analysis	4
2.3	Non-Purge Results Comparison	5
3.0	SCHEDULE OF UPCOMING ACTIVITIES	6
4.0	CONCLUSIONS AND RECOMMENDATIONS	7
5.0	REPORT DISTRIBUTION	8
6.0	REMARKS AND SIGNATURE	9

LIST OF FIGURES

Figure 1.	Site Location Map
Figure 2.	
Figure 3.	Groundwater Elevation Contour Map
Figure 4.	Groundwater Analytical Summary

LIST OF TABLES

Table 1	Groundwater Monitoring and Analytical Results – August
Table 2	Groundwater Monitoring and Analytical Results – Summary

LIST OF APPENDICES

Appendix A	Field Data Sheets
Appendix B.	Laboratory Reports



1.0 INTRODUCTION

1.1 Project Description

On behalf of the responsible party, Taber Consultants has prepared this *Second Semiannual Monitoring Report 2009* for submittal to the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) and Alameda County Health Care Services Agency (ACHSA). The scope of work conducted during this project complies with existing SFBRWQCB and ACHSA directive letters.

1.2 Site Location and Description

The former City of Paris Cleaners, located at 3516 Adeline St., Oakland, CA, is a former dry cleaning, laundry and dyeing operation currently owned by Mrs. Debra Runyon. The facility operated as City of Paris Cleaners and Dyers for about 40 years until the 1960's, but cleaning materials and tanks were not completely removed from the site until 1992. The site buildings remained vacant for a number of years following the closure of the dry cleaning operation, and then the owner converted them to residential and light commercial use.

The site lies at the southern corner of the intersection of 35th Street and Adeline Street at approximately 30 feet above mean sea level (amsl) in the northwest portion of the City of Oakland, California. The site buildings currently house on-site living quarters and City of Paris Studios, a workshop for art, art restoration, collectibles and hobbies. Mrs. Runyon acquired the site in July 2000.

1.3 Chronological Site History and Previous Subsurface Investigations

In 1987, Frank Champion, the owner at that time, applied for permits for remove Stoddard Solvent storage tanks at the site. Mr. Champion applied for five permits, obtaining permission to remove two 1000-gallon tanks, a 500-gallon tank, a 250-gallon tank and a 150gallon tank. Underground storage tanks at the site were used to store Stoddard Solvent, the dry cleaning solvent used during operation of the dry cleaning facility until the 1960s when the facility was closed.

On October 4, 1990, Semco Company of San Mateo excavated and reported removing one 750-gallon and two 1,000-gallon underground tanks used to store Stoddard Solvent. Six soil samples were collected in conjunction with the UST removal.

On July 31 and August 1 and 2, 1991, Uriah Inc. (UES) performed a soil vapor survey at the site in an attempt to define the approximate boundaries of soil impacted by Stoddard Solvent. Soil vapors were found to be widely distributed across the site, but due to physical impediments posed by site structures, sidewalks, etc., the full extent of the impacted soil was not defined.



SECOND SEMIANNUAL MONITORING REPORT 2009 Former City of Paris Cleaners 3516 Adeline Street, Oakland, CA 94608

UES contracted W.A. Craig to overexcavate the eastern portion of the tank pit on August 30, 1991. Approximately 44 cubic yards were excavated and placed in a cell for on-site bioremediation of the impacted soil. During overexcavation, EUS reports that the contractor discovered an additional 250-gallon UST containing "a small volume of liquid" that was stored in a 55-gallon drum on site after removing an aliquot for analysis. This UST was removed and disposed by W. A. Craig on October 31, 1991. An additional 15 cubic yards was overexcavated from the tank pit by W.A. Craig on January 27, 1992 and added to the on-site bioremediation cell.

On March 31, 1992, composite samples of the on-site bioremediated soil were analyzed to verify that sufficient hydrocarbon removal had occurred to reuse as fill on the site. No additional soils were excavated due to safety concerns regarding building foundation integrity, however soil samples were collected from the tank pit side walls. ACHCSA approved use of the bioremediated soil as backfill, and W. A. Craig backfilled the tank pit with bioremediated soil and clean fill on April 21, 1992.

On October 29 and 30, 1992, UES supervised on-site installation of ground water monitoring wells. Soils Exploration Services of Vacaville, California, installed three 30-foot monitoring wells. Initial depth to groundwater measurements in the wells ranged from 13 to 14 feet below grade. Beginning November 18, 1992, groundwater samples were analyzed for Total Petroleum Hydrocarbons (as Stoddard Solvent, TPH-SS), Total Petroleum Hydrocarbons (as diesel, TPH-D), Total Petroleum Hydrocarbons (as gasoline, TPH-G), methyl tertiary butyl ether (MtBE), benzene, toluene, ethylbenzene and total xylenes (BTEX). Samples from all three monitoring wells contained TPH-SS ranging from 630 parts per billion (ppb) in MW-2 to 11,000 ppb in MW-3. TPH-D, TPH-G, MtBE and BTEX concentrations were below laboratory detection limits.

On March 19, 1998, Dugan Associates of San Jose, California (Dugan) advanced six on and off-site soil borings to a total depth of 18 feet below grade. Five of the soil borings were advanced on the north side of 35th Street in the projected downgradient direction from the site (EB-2 through EB-6). One soil boring was advanced on-site to the northwest of the former UST location (EB-1). At each soil boring, Dugan collected a soil sample at 5, 10 and 15 feet below grade and one grab-groundwater sample at 18 feet below grade . The on-site soil boring (EB-1) groundwater sample concentration was 270,000 ppb TPH-SS, with one off-site groundwater sample (EB-5) reporting 780 ppb TPH-SS. Concentrations of analytes for all other groundwater samples from the soil borings were below laboratory detection limits. Soil samples at EB-1 contained 310 and 340 ppb of TPH-SS at 10 and 15 ft. below grade, respectively, and trace amounts of total xylenes and/or toluene.

In September, 1999, ACHSA issued a directive letter which required groundwater analysis for semivolatile organics (SVOCs) and volatile organics (VOCs) historically associated with dry cleaning operations. In December 1999, using EPA method 625 and 3510, or 8270 and 3550, 1,2-dichlorobenzene (DCB), 1,1-dichloroethane (1,1 DCA), 2-methylnaphthalene and naphthalene were detected in samples from one or more wells. Concentrations of other SVOC and VOC analytes were below laboratory detection limits, including denser than aqueous phase SECOND SEMIANNUAL MONITORING REPORT 2009 Former City of Paris Cleaners 3516 Adeline Street, Oakland, CA 94608



liquids (DNAPLs, i.e. pentachlorophenol (PCP)). At that time Dugan defined a north-trending groundwater gradient at 0.003 ft./ft.

In their September, 1999 letter, the ACHSA also noted that according to a database search they believed a 97-foot industrial well had been drilled at the site. The well was located southeast of Monitoring Well 3 (Figure 2).

In March 2002, in compliance with an ACHSA directive letter, WellTest, Inc. (formerly Dugan and Associates) redeveloped the three monitoring wells (by purging 10 well-volumes) and sampled the three wells pursuant to quarterly monitoring responsibilities. WellTest, Inc. also sampled the industrial well on-site. The analytical results of the sampling indicated up to 11,000 μ g/L of TPH-SS in the sample from MW-1, no BTEX above laboratory detection limits, up to 31 μ g/L MtBE in the sample from MW-3, 0.61 μ g/L DCB in the sample from MW-1, and 130 ug/l Naphthalene in MW-1. The groundwater gradient was also defined to the southeast at 0.14 ft./ft., which appears to be an anomalously steep gradient for this site. This steep gradient may be a result of sediment blocking some or all of the screened section of one or more well. When Dugan redeveloped the wells in 2002, they appear to have adversely impacted the ability of the wells to adjust to changing water levels.

Taber Consultants (Taber), formerly Western Resource Management (WRM), assumed environmental consulting responsibilities for the site commencing in June 2007. Taber performed groundwater monitoring at the site for the first and second semiannual periods of 2009. In response to a query by ACHSA, Taber submitted a well completion report request to the California Department of Water Resources, in which undated well boring logs for a well at the City of Paris Cleaners, at 3516 Adeline Street, indicated a 97-foot industrial well on the site. Taber also found well drilling information for another industrial well drilled in 1927 for the City of Paris Cleaners, drilled to 295 feet. The location of this well is unknown, and the well could have been covered by buildings constructed after the well was taken out of service.

July 28, 2009, ACHCSA advised Responsible Parties that The California State Water Resources Control Board (State Water Board) had approved Resolution No. 2009-0042, which reduced quarterly groundwater monitoring requirements to semiannual or less frequent monitoring at all sites. In 2009, Taber reduced monitoring at the City of Paris Cleaners site to two semiannual monitoring events at the site in February and August. Corresponding reports were the First Semiannual and Second Semiannual Monitoring Reports.



2.0 GROUNDWATER MONITORING, SAMPLING, AND ANALYSIS

On August 11, 2009, to comply with semiannual groundwater monitoring requirements, Taber gauged and sampled on-site groundwater monitoring wells MW-1 through MW-3. An on-site industrial well (W-IND) was also monitored and sampled this period.

2.1 Groundwater Monitoring

Depth-to-groundwater was measured in the three monitoring wells using a water level meter capable of measurements to within 0.01 foot. The depth to the groundwater table ranged from 13.00 feet below ground surface (bgs) in MW-2 to 15.22 in MW-3. Groundwater surface elevations ranged from a high of 4.31 feet above mean sea level (amsl) in MW-2 to a low of 2.22 feet amsl at MW-3. The direction of groundwater flow is to the northeast at a gradient of 0.109 feet per foot. A groundwater surface contour map is included as Figure 3 and groundwater elevation data are summarized in Tables 1 and 2. Field data sheets for the groundwater monitoring are included as Appendix A.

2.2 Groundwater Sampling and Analysis

Following groundwater level measurements, the four wells were purged and sampled in accordance with the established sampling schedule. The monitoring wells were purged with a pump and dedicated disposable tubing until at least three well casing volumes had been removed and/or after groundwater temperature, pH and electrical conductivity values had stabilized. Groundwater was sampled from the monitoring wells using dedicated and disposable polyethylene bailers and laboratory-supplied containers. All sample containers were transported in an iced cooler with chain-of-custody documentation to Sparger Technology, Inc. (Sparger), of Rancho Cordova, California, a state certified analytical laboratory (ELAP Certification #1614).

Sparger analyzed each of the groundwater samples for Total Petroleum Hydrocarbons as Stoddard solvent (TPH-SS) and Total Petroleum Hydrocarbons as gasoline (TPH-G) by EPA Method 8015B, benzene, toluene, ethyl benzene and xylenes (BTEX), and oxygenate methyl tertiary butyl ether (MtBE) by EPA Method 8260B.

TPH-SS was detected in groundwater samples collected from MW-1, MW-2 and MW-3 at 13,000, 600 and 1,000 μ g/l, respectively. TPH-G was detected in groundwater samples collected from MW-1, MW-2 and MW-3 at 7,800, 610 and 2,200 μ g/l, respectively. MtBE was detected in groundwater samples collected from MW-1, MW-2 and MW-3 at 5.9, 3.8 and 7.3 μ g/l, respectively. BTEX concentrations were below minimum laboratory detection limits in all wells sampled. All tested analytes were below laboratory detection limits in W-IND.

SECOND SEMIANNUAL MONITORING REPORT 2009 Former City of Paris Cleaners 3516 Adeline Street, Oakland, CA 94608



The distribution of petroleum hydrocarbon compounds and fuel oxygenates in shallow groundwater is shown on Figure 4. The groundwater sample analytical results are summarized in Tables 1 and 2 and the laboratory reports, notes, and comments are included in Appendix B.

2.3 Non-Purge Results Comparison

Taber used the HydraSleeve[®] to obtain no-purge samples. The HydraSleeve[®] is lowered into the well, allowed to equilibrate, then carefully retrieved from the well. Taber then transferred the sample from the HydraSleeve[®] into the laboratory-supplied containers. The samples were transported in an iced cooler with chain-of-custody documentation to Sparger Technology, Inc. (Sparger), of Rancho Cordova, California, a state certified analytical laboratory (ELAP Certification #1614).

Taber compared analytical results from non-purge samples from wells MW-1 and MW-3 to analytical results of samples obtained with the standard purging protocol. TPH-SS was detected from groundwater samples collected from both MW-1 and MW-3 at 6,000 and 3,000 μ g/l, respectively. TPH-G was detected from groundwater samples collected from both MW-1 and MW-3 at 10,000 and 6,700 μ g/l, respectively. All other tested analytes were below laboratory detection limits. MtBE was not detected in non-purged samples but detected up to 7.3 μ g/l in purged samples.

	MV	V-1	MV	V-3					
Sampling Method	TPH-SS µg/l	TPH-G µg/l	TPH-SS µg/l	TPH-G μg/l					
No Purge	6000	10000	3000	6700					
Purge	13000	7800	1000	2200					
No Purge - Purge	-7000	+2200	+2000	+4700					

Purge/No Purge Analytical Comparison



3.0 SCHEDULE OF UPCOMING ACTIVITIES

On behalf of Ms. Paulette Satterley, Taber has been directed by the ACHCSA to perform further site characterization and site monitoring. Taber is preparing a Continuing Site Investigation Work Plan for The City of Paris Cleaners that will improve understanding of soil and groundwater impacts at the site. Site investigation history, further site investigation and the wellhead elevation resurvey will form the basis for the Site Conceptual Model. Upon approval of the Work Plan by ACHCSA, Taber will obtain necessary permits and perform the necessary work at The City of Paris Cleaners site.

In March, 2010, Taber will gather monitoring data for the First Semiannual Groundwater Monitoring Report for 2010. Taber will compile that monitoring data with historical data to evaluate trends at the site in order to plan remedial activities with 60 days of obtaining the samples.



4.0 CONCLUSIONS AND RECOMMENDATIONS

During August 2009, TPH-G concentrations were elevated in MW-1, MW-2 and MW-3 and TPH-SS concentrations were elevated in MW-1 and MW-2, relative to February 2009. TPH-SS decreased in concentration in MW-3 this quarter. All tested analytes remained below minimum laboratory detection limits in W-IND.

Between February 19, 2009 and August 11, 2009, TPH-SS concentrations increased by 12,500 μ g/l in MW-1 and by 300 μ g/l in MW-2, while concentrations decreased by 500 μ g/l in MW-2. TPH-G concentrations increased by 4,700 μ g/l in MW-1, 310 μ g/l in MW-2, and 900 μ g/l in MW-3. Well MW-1 continues to contain highest concentrations as well as highest concentration fluctuations. MtBE concentrations increased slightly (less than 6 μ g/) in MW-1 and MW-2, and decreased in MW-3.

The lateral extent of impacted groundwater continues to be concentrated in the vicinity of the former tank pit, concentrated in the northwest-southeast pattern between MW-1 and MW-2 and extending to the northeast as defined in previous off-site soil borings. The trend of constituents of concern in groundwater appears to indicate a residual soil source area remaining on the property. The groundwater plume remains undefined both down and cross gradient from the location of the former UST's at the site.

Taber has noted anomalously steep gradients at the site and believes there may be issues with the wells resulting from the 2002 well redevelopment. The ACHCSA agreed in their March 10, 2009, letter that re-surveying the wells is necessary. Once Taber has had the wells resurveyed, additional steps may be necessary including well swabbing and an additional redevelopment to clear out any sediment blockages.

Taber recommends the use of the HydraSleeve[®] no-purge sampling method at the site because the method produces less disturbance in the well and generates less uncertainty with respect to concentration trends in the impacted groundwater. The no-purge sampling protocol also provides a safer alternative to purging when small children reside at the site. Detailed documentation on the HydraSleeve[®] sampling protocols have been provided to ACHSA.

SECOND SEMIANNUAL MONITORING REPORT 2009 Former City of Paris Cleaners 3516 Adeline Street, Oakland, CA 94608



5.0 REPORT DISTRIBUTION

Ms. Paulette Satterley 14601 Guadalupe Drive Rancho Murieta, CA 95683

Ms. Barbara Jakub Alameda County Health Care Services Agency 1131 Harbor Parkway, Suite 250 Alameda CA, 94502

Ms. Cherie McCaulou San Francisco Bay Regional Water Quality Control Board 1515 Clay St., Suite 1400 Oakland, CA 94612





6.0 REMARKS AND SIGNATURE

The interpretations and/or conclusions contained in this report represent our professional opinions and are based in part on information supplied by the client. These opinions are based on currently available information and were developed in accordance with currently accepted geologic, hydrogeologic, and engineering practices at this time and for this specific site. Other than this, no warranty is implied or intended.

This report has been prepared solely for the use of Ms. Paulette Satterley. Any reliance on this report by third parties shall be at such parties' sole risk. The work described herein was performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide you with geologic, engineering and environmental consulting services and trust this report meets your needs. If you have any questions or concerns, please call us at (916) 729-1760. Sincerely,

Taber Consultants

Ellen Pyatt, MSc. Project Geologist

I ho E B.

Thomas E. Ballard, P.G. #7299 Senior Geologist



FIGURES









TABLES

TABLE 1 GROUNDWATER MONITORING AND ANALYTICAL RESULTS CURRENT QUARTER

City of Paris Cleaners 3516 Adeline Street, Oakland, California 94608

		Ν	/Ionitoring S	ummary			Ana	lytical Sum	mary		
		Top of	Depth to	Groundwater					Ethyl		
Well ID	Date	Casing	Water	Elevation	TPH-SS	TPH-G	Benzene	Toluene	benzene	Xylenes	MTBE
		•	ft bgs		•			— ug/l —			
Groundwat	er Sample Lo	cations									
MW-1	08/11/09	17.44	13.35	4.09	13000	7800	<10	<10	<10	<10	5.9
MW-1 NP	8/11/2009	17.44	13.35	4.09	6000	10000	<10	<10	<10	<10	<5
MW-2	08/11/09	17.31	13.00	4.31	600	610	<1	<1	<1	<1	3.8
MW-3	08/11/09	17.44	15.22	2.22	1000	2200	<10	<10	<10	<10	7.3
MW-3 NP	8/11/2009	17.44	15.22	2.22	3000	6700	<10	<10	<10	<10	<5
W-IND	08/11/09	NA	14.13		<50	<50	<1	<1	<1	<1	<0.5

Explanation:

TPHg = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B. TPH-SS = Total petroleum hydrocarbons as stoddard solvent, analyzed by the 8015B. Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B. MTBE = Methyl tertiary-butyl ether, analyzed by EPA Method 8260B.

fbg = Feet below grade.

NA = Data not available

<n = Below laboratory detection limit of n ppm.

-- = not analyzed

8/11/2009 Taber Consultants implement No-Purge Sampling in MW1 and MW3

City of Paris Cleaners

3516 Adeline Street, Oakland, California 94608

		Мо	onitoring Su	Immary			Anal	ytical Sum	mary		
		Top of	Depth to	Groundwater					Ethyl		
Well ID	Date	Casing	Water	Elevation	TPH-SS	TPH-G	Benzene	Toluene	benzene	Xylenes	MTBE
		+	— ft bas					— ua/l —			
								<i></i>			
Groundwa	ter Sample Loo	cations									
MW-1	11/18/1992	17.44	13.99	3.45	1800	NA	<0.5	<0.5	<0.5	<0.5	NA
MW-1	11/4/1993	17.44	16.79	0.65	2000	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	3/8/1994	17.44	14.14	3.3	150	NA	35	40	72	120	NA
MW-1	8/2/1994	17.44	13.18	4.26	2100	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	2/8/1995	17.44	10.92	6.52	620	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	7/8/1996	17.44	11.62	5.82	37000	110000	1.6	<0.5	<0.5	74	7.9
MW-1	10/9/1996	17.44	14.11	3.33	42000	NA	<0.5	5	<0.5	<0.5	NA
MW-1	3/18/1997	17.44	12.37	5.07	2600	NA	<0.5	1.5	1.5	9.6	<6.0
MW-1	6/19/1997	17.44	13.26	4.18	660	NA	<0.5	<0.5	1.2	0.71	<5.0
MW-1	11/14/1997	17.44	11.45	5.99	10000	NA	<0.5	<0.5	110	1.2	<5.0
MW-1	12/15/1999	17.44	11.31	6.13	<20	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-1	3/22/2002	17.44	8.97	8.47	11000						<5.0
MW-1	4/15/2003	17.44	9.23	8.21	3900		<2.5	<2.5	<2.5	3	9
MW-1	3/26/2004	17.44	10.32	7.12	30000	24000	<50	<50	<50	<50	<500
MW-1	9/30/2004	17.44	11.53	5.91	3800	2600	<0.5	<0.5	<0.5	2.7	<5
MW-1	9/9/2005	17.44	13.63	3.81	15000	11000	<5	<5	<5	15	<50
MW-1	11/30/2007	17.44	13.95	3.49							
MW-1	12/20/2007	17.44	11.51	5.93	45000	110000	20	50	20	100	<5
MW-1	5/23/2008	17.44	14.14	3.3	4200	<500	<1	<1	<1	20	<0.50
MW-1	8/12/2008	17.44	13.78	3.66	4000	12000	<1	<1	<1	<1	<0.50
MW-1	12/18/2008	17.44	10.71	6.73	9900	2700	<1	<1	<1	<1	<0.50
MW-1	2/19/2009	17.44	8.91	8.53	500	3100	<10	<10	<10	<10	<5
MW-1	8/11/2009	17.44	13.35	4.09	13000	7800	<10	<10	<10	<10	5.9
MW-1 NP	8/11/2009	17.44	13.35	4.09	6000	10000	<10	<10	<10	<10	<5
MW-2	11/18/1992	17.31	13.18	4.13	630	NA	<0.5	<0.5	<0.5	<0.5	NA
MW-2	11/4/1993	17.31	14.84	2.47	3200	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-2	3/8/1994	17.31	11.5	5.81	45	NA	1.4	2	11	19	NA
MW-2	8/2/1994	17.31	13.14	4.17	170	<50	<0.5	<0.5	<0.5	<0.5	NA

City of Paris Cleaners

3516 Adeline Street, Oakland, California 94608

		Mo	onitoring Su	mmary			Ana	ytical Sum	mary		
		Top of	Depth to	Groundwater					Ethyl		
Well ID	Date	Casing	Water	Elevation	TPH-SS	TPH-G	Benzene	Toluene	benzene	Xylenes	MTBE
		•	— ft bas					— ua/l —			
MW-2	2/8/1995	17.31	8.18	9.13	570	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-2	7/8/1996	17.31	11.06	6.25	1800	2800	<0.5	2.6	15	24	6.3
MW-2	10/9/1996	17.31	12.38	4.93	4100	NA	<0.5	0.57	<0.5	<0.5	NA
MW-2	3/18/1997	17.31	10.61	6.7	240	NA	<0.5	0.57	<0.5	<0.5	5.3
MW-2	6/19/1997	17.31	11.68	5.63	2500	NA	<0.5	<0.5	9.1	<0.5	<5.0
MW-2	11/14/1997	17.31	10.61	6.7	130	NA	<0.5	<0.5	0.9	1.2	<5.0
MW-2	12/15/1999	17.31	10.97	6.34	<20	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-2	3/22/2002	17.31	8.82	8.49	170	13000	410	1000	210	1100	<5.0
MW-2	4/15/2003	17.31	8.52	8.79	99		<0.5	<0.5	<0.5	0.76	10
MW-2	3/26/2004	17.31	9.32	7.99	120	93	<0.5	<0.5	<0.5	0.76	5.4
MW-2	9/30/2004	17.31	11.62	5.69	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-2	9/9/2005	17.31	12.75	4.56	120	98	<0.5	<0.5	<0.5	<0.5	<5
MW-2	11/30/2007	17.31	11.06	6.25							
MW-2	12/20/2007	17.31	9.95	7.36	<50	3000	<1	1.6	<1	2.4	2.9
MW-2	5/23/2008	17.31	12.46	4.85	300	1100	<1	<1	<1	<1	3.5
MW-2	8/12/2008	17.31	12.08	5.23	2200	350	<1	<1	<1	<1	<0.50
MW-2	12/18/2008	17.31	10.58	6.73	300	<50	<1	<1	<1	<1	7.3
MW-2	2/19/2009	17.31	8.22	9.09	300	300	<1	<1	<1	<1	3.4
MW-2	8/11/2009	17.31	13.00	4.31	600	610	<1	<1	<1	<1	3.8
	11/10/1000	17 11	12.02	2 5 1	11000	ΝΙΔ	-0 E	-0 F	-0 F	-0 E	ΝΑ
MN/ 2	11/10/1992	17.44	15.95	2.01	220	-50	<0.5	<0.5	<0.5	<0.5	
NIN/ 2	2/8/100/	17.44	12.10	2.20	320	<30 NA	<0.5	<0.5	<0.5	<0.5	
MN/ 2	2/2/100 <i>4</i>	17.44	13.43	4.01	4 3	-50	0.8	0.9	-0 5	-0 5	
	0/2/1994	17.44	7.62	4.02	<20	<50	<0.5	<0.5	<0.5	<0.5	
	2/0/1990	17.44	10.02	9.02	<20	<50	<0.5	<0.5	<0.5	<0.5 o	10
	1/0/1990	17.44	10.97	0.47	2500	2200	1 -0 F	<0.5	0.0 -0 E	0	
	10/9/1996	17.44	11.84	0.C	2000		<0.5	C.U>	C.U>	<0.5	
	3/18/1997	17.44	10.16	1.28	2500		<0.5	U.01	0.63	5.2	INA 15 0
	0/19/1997	17.44	11.4	0.04	21000		<0.5	<0.5	11	c.u>	<5.0
10100-3	11/14/1997	17.44	10.71	6.73	1,400	NA	<0.5	<0.5	28	28	<5.0

City of Paris Cleaners

3516 Adeline Street, Oakland, California 94608

		Мс	onitoring Su	Immary			Anal	ytical Sumi	mary		
		Top of	Depth to	Groundwater					Ethyl		
Well ID	Date	Casing	Water	Elevation	TPH-SS	TPH-G	Benzene	Toluene	benzene	Xylenes	MTBE
		•	— ft bas		•			— ug/l —			
MW-3	12/15/1999	17.44	10.96	6.48	<20	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-3	3/22/2002	17.44	10.97	6.47	420	<50	<0.5	<0.5	<0.5	<0.5	31
MW-3	4/15/2003	17.44	8.31	9.13	2700		<0.5	<0.5	<0.5	<0.5	40
MW-3	3/26/2004	17.44	8.61	8.83	2700	1900	<1.7	<1.7	<1.7	4.3	<17
MW-3	9/30/2004	17.44	11.1	6.34	3900	2600	<0.5	<0.5	<0.5	3.2	<10
MW-3	9/9/2005	17.44	13.75	3.69	4000	2600	<0.5	<0.5	0.57	2.7	12
MW-3	11/30/2007	17.44	13.9	3.54							
MW-3	12/20/2007	17.44	10.79	6.65	18000	12000	<1	1.6	1.1	2.4	9.2
MW-3	5/23/2008	17.44	15.2	2.24	900	3000	<1	<1	<1	<1	9.1
MW-3	8/12/2008	17.44	14.14	3.3	1900	4300	<1	<1	<1	<1	6.5
MW-3	12/18/2008	17.44	12.53	4.91	5000	610	<1	1	<1	<1	20
MW-3	2/19/2009	17.44	11.11	6.33	1500	1300	<1	1	<1	<1	9
MW-3	8/11/2009	17.44	15.22	2.22	1000	2200	<10	<10	<10	<10	7.3
MW-3 NP	8/11/2009	17.44	15.22	2.22	3000	6700	<10	<10	<10	<10	<5
	2/22/2002	ΝΙΛ			~50	100	<0 5	<0 F	-0.5	0.8	~5.0
	3/22/2002				<50	190	<0.5	<0.5	<0.5	0.0	<5.0
	4/15/2003				500	200					
	0/20/2004				500	200	< 0.5	<0.5	<0.5	<0.5	<5
	9/30/2004				<50	<50	<0.5	<0.5	<0.5	<0.5	<5
	11/30/2007		12.02		<00	<50	<0.5	<0.5	<0.5	<0.5	<0
	12/20/2007		12.92		~50	500				2.2	
	5/23/2008		12 72		300	250	<1	37	<1	2.2	<0.50
	9/12/2000		12.72		300	~50.0	<1	5.7	<1	2.4	<0.50
	12/19/2000		10.42		<00.0	<00.0	< I -1	<1	<1	<1	<0.50 0 7
	2/10/2000	IN/A NIA	0.74		<50	<00	<1	< I ~1	<1	<1	0. 7
	2/19/2009		9.74 1712		<50	<50	< I -1	<1	<1	<1	<0.5
	0/11/2009	INA	14.13		<00	<00	<1	<1	<1	<1	<0.5

City of Paris Cleaners

3516 Adeline Street, Oakland, California 94608

		Мс	onitoring Su	ımmary			Anal	ytical Sum	mary		
		Top of	Depth to	Groundwater					Ethyl		
Well ID	Date	Casing	Casing Water Elevation		TPH-SS	TPH-G	Benzene	Toluene	benzene	Xylenes	MTBE
			- ft bgs		< <u>−</u>			— ug/l —			→

Explanation:

TPHg = Total petroleum hydrocarbons as gasoline, analyzed by EPA Method 8260B. TPH-SS = Total petroleum hydrocarbons as stoddard solvent, analyzed by the 8015B. Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B. MTBE = Methyl tertiary-butyl ether, analyzed by EPA Method 8260B.

fbg = Feet below grade.

NA = Data not available

<n = Below laboratory detection limit of n ppm.

-- = not analyzed

June 2007: Taber Consultants assumed environmental consulting responsibilities. 8/11/2009 Taber Consultants conducted No-Purge Sampling in MW1 and MW3

APPENDIX A FIELD DATA SHEETS

Sparge Techno Environmental I.	Sparger Technology.nc.							3738 Bradview Drive Sacramento, CA 95827 Lab: 916.369.7688 COC # / La Fax: 916.369.7689 California EDF Report? ✓ Yes □ No										18993 Lab No Page 1 of 1											1				
Tom Ballard (to email addres	s's)		Car	non			epor	U.		\square	Yes		No	C			Cha	in-	of-	Cu	sto	dy	Red	cord	d a	nd	An	aly	sis F	Requ	les	t
Company / Addr	ess:			Sar	npli	ng Co	mpa	ny L	.og (Cod	e:											mal									T	-	
Taber Consul	tants: 3911 We	st Capitol A	ve.	WF	RMG	C	543		1875								e)				F	Mai	lysis	s Re	que	st					1A	41	
West Sacrame	ento, CA 95691			Glo	bal	ID:	TO	600	100)37	9		_									<i>m</i>				Т	Τ						
Phone #:		Fax #:		Del	liver	all fil	es to	:														260										hr	
916-371-1690		916-371-7	265	inb	ox(@Tab	berC	onsi	ulta	ints	.00	m										A 82		²⁰ B							12	11	
Project #:		P.O. #:	3A	plea	ase	emai	aco	opy t	o:								1					Ë		82									
51074				SN	less	@Ta	ber	Con	sult	tant	S.C	om										DB		A	-	15M			S		24	hr	
Project Name:		//		Sar	mple	er Sig	natu	re:	1		_		>		\overline{v}			l 🗟		(m)		2 2 1			SM) õ			ent			- 1	
GMR CityOfP	aris			0	\geq	1-	-7	-	>			7						109		326(8		Ĕ	801	A	6		20				
Project Address:			Sampling		С	ontai	ner		Ρ	rea	erva	ative	L	Ma	atrix	5	1	A 8	15)	Ř		₹		2	Vd:		6	2	d S	ŝ	48	hr	
3514 Adeline	St.						MD D						2				1	E E	A 8(E)		2 D		S	H (F	Ī	A	(ST	dar	ran		. 1	
Oakland, CA				ml VOA	y y eve							ter	_				BE\BTEX	H Gas (EP	xygenates		d Scav.(1		atile Orgar	A as Diese	H as Moto	al Lead (E	T. Lead	I-SS Stod	romatag	72] hr		
Sample ID	Field Point Name	e Date	Time	40	Sle	PG C	J P		윈	<u> 목</u>	2 N		Ne	Soi	Air			Ē	臣	02		Lea		No lo	đ	: Ē	1 D	N.W.	T D	- E	H	wk	
MW-1	MW-1	8/11/00	12:45	3					x		x		X	-				x	X						Ť	Ť	Ť	1	x	x			
MW-2	MW-2	12	10:55	3		1		\square	V		V		Ť	-				Y	Y				+	-	+	+	╈	+-	v	V	1		_
1010/-3	MW-3		10.35			- 1	-		~		2		1	-	-	+-	\vdash	÷	+÷	-			+	+	+	+	+	+-	1		+-'	<u> </u>	
W-IND	WAND	shil	12:05	5			,	\square	-		5	_	Ŕ	-	-		┝┼╴	$\frac{1}{\sqrt{2}}$	-	+	-		-	-	+	+	+	+	X	X	- '	×	_
			1 10:10	13			4	\vdash	~	-	~	_	¥	4		-	\vdash	-	-	-			+			+	┢	┿	X	\vdash		×	
							+-	\square					╈	+				+	┝	-			+	+		+	┝	+-	\vdash	\vdash	+-	\rightarrow	
								\square					╋	+-	-	-	\vdash	-	+	+		_	+	+	+	+	┢	╈	\vdash		-	+	
													+	1	T	1		-	1	1		-		+	+	+	┢	+	-		-	+	
																			T								\uparrow	1	\vdash		1	+	
																			1								T	1					
Relinquished by:	G-fry	3	Date 8/13/09			Time /4/:29	Re		ed by	le.	2	h	n					Re ple Sa	emar ease amp	ks: sav ble (e fil date	e(s), e ye	PDF	^r 's, E MOI	DF anth_	s xL _da	.S na V_ l	ame p roj	as: ect	nam	ie_ V	VO#	
rveninguisned by:	\vee		Date	Time Received by:									E) 20	XAI 009	08_0	_E: _10	_GI	MR.	Cit	yOf	Par	'is_	184	95									
Relinguished by:			Date			Time	Po	coluc	d bu	10	hore	tone				_		BI	1 10:	<u>AS</u>	Sand	dino	@T	abe	erCo	nsu	iltai	nts.c	com				
			Date	The Inconved by Laboratory.							L				For	Lat	Use	e Or	nly:	Sa	Impl	e Re	eceip										
																		T	emp	°C	Ir	nitial	s		Date	í.	Т	ime					
										_								-															

1

Sparg Techn Environmental	er Ology, inc. Laboratories	0	3738 Bradview Drive Sacramento, CA 95827 Lab: 916.369.7688 COC # / Lab Fax: 916.369.7689 California EDF Report?										/ Lab M	18994 ib No Page 1 of 1																	
Project Contact Tom Ballard	(PDF To): (to email addres	ss's)		Cal	iforr	nia E	DF	Repo	ort?		1	Yes	Ľ	No			Ch	ain	-of-	Cu	stoc	ly R	leco	ord	an	d A	na	lysis	s Re	eques	st
Company / Add Taber Consu West Sacram	ress: Itants: 3911 We Iento, CA 9569	est Capitol Av	е.	San WF Glo	npli RM(bal	ng C C ID:	om	pany T060	Log 010	Coc 037	ie: '9							T	Τ	4	Analy	/sis	Req	ues	.t		Т	T			
916-371-1690 Project #: 51074 Project Name:		916-371-728 P.O. #: 3A	65	inb plea SN Sar	ox(ase less nple	@Ta ema s@T er Si	iber ail a abi gna	rCon copy erCo ture:	sulta to: nsul	ants tan	ts.co	m om				_	í.	10	(90B)		1,2 EDB-EPA 826	ist (FPA 8260B)		115M)	A 8015M)		201 Distantin	vents		12 hr □ 24 hr	
NoPurge Cit Project Address	yOfP	Sa	mpling	0	0	onta	ine	7 r	ľ		erva	ative	Т	Ma	atrix		0000	015)	PA 826		CA &	Eull 1		EPA 80	EP/	6010)	(C)	ns au		48 hr	
Sample ID	St.	ne Date	Time	40 ml VOA	Sleeve	Poly	Glass SoonL	Tedlar	HCI	HNO ₃	None		Water	Soil	Air			TPH Gas (FPA 5	5 Oxygenates (E		Lead Scav.(1,2 I	Volatile Organics	7	TPH as Diesel (TPH as Motor O	Total Lead (EP/	W.E.T. Lead (S	Chromatagrai		□ 72 hr ☑ 1 wk	
MW-1 NP	MW-1	8/11/09	11:15	3			1		×		x		X					x)	(2010	x x		×	
BALLY NID	1000/ 2	alite			_			_	8				1	+	$\left \right $	_		x)	(_	-	\square		-	_	X X		x	<u> </u>
WWW-3 IVP	WWV-3	8/11/05	11:30	3	_		1	_	<u> </u>		X	-	-IX	-	\vdash			<u>x)</u>	4				-	\vdash	\vdash	\vdash	_	X X	4	x	<u> </u>
								_	+			-	+			+		+	+			+	+	$\left - \right $		\rightarrow	+		+		-
																		T						\square							
													T														1		\Box		
							+	-	┢			+	╀	+	$\left \right $		-	-	+	-	-	+	-		\vdash	\vdash	+	+	+		
							1						\uparrow		\uparrow									\square	\vdash	-	+	-	+		
Relinquished by:	Frey	-	Date	/	/	Time 4:2	'S	Receiv	ved b	y: }	f.	he	L.				F	lema leas am	irks: e sav ple	/e fil date	e(s), I e yea	PDF'	s, ED	F&	XLS day	nan _ pr	ie as oje	s: ct na	ame		! #
Kelinquisned by:			Dale /	Time Received by:								2 8	XA 009	MP1	_E: _10	_No	Pur	ge_	City	/Off	P_1:	234	5								
Relinquished by:			Date			Time		Receiv	ved b	y La	bora	tory:								Jan	For	Lab	Use	Only	V:	Sam	ple	Rece	eipt		
																		Tem	p °C	h	nitials		D	ate		Tim	e				

Taber Consultants Groundwater/Liquid Level Data (Measurements in Feet)

Project Address:

City of Paris Cleaners 3516 Adeline Street Oakland, CA.

Sh.

Date:

8/11/09

Project: 51074

Recorded by:

Well No.	Time	Well Elev. TOC	Depth to Groundwater	Measured Total Depth	Groundwater Elevation	Depth to Product	Product Thickness	Comments
1.001	925		1335	53.41		(-	
mwz	934		13,00	29.50		(1	
MW3	940		15.22	29,73		-	- *	No PURSE Smulle; 11:30
MW1	947		14,13	27.50	1.12	-	- *	No Puppi Sompla: 11:15
				- T				
			R.	100		1		
	10				-			
	in.,							- I day
		0						
								A. C.
			100					
Purga	5 mm	ling ALC	walls :	3 Vons	11-1C Am	SER RA	A	
NODUIZO	E SAMA	mi mw	-3 & MW-1	3 Yon's	1- 500 m	A Ambia	E Forth.	
, ,	. /	5					d	

Notes: TOTAL Punyon Volume (w/DEWN) = 55 LFAllonis.

		SAMP	LING INFORM	ATION SHEET
Client: CITY of PARIS C	GARNIEIRS	Samptin	g Date: B	11/09
Site:		Project I	No.: .5	1074
3514 Adalina	ST.	Well De	signation: Ma	1-1
OAKland, UA	•			
s setup of traffic control devices required?	XNo CYe	s time:	ho	urs
s there standing water in the well box?	XNo CYe	s Abov	ve TOC Bel	ow TOC
s top of casing cut level?	(No Ste	s If no, se	e remarks	
s well cap sealed and locked?	(No Ae	es If no, se	e remarks	
Height of well casing riser (in inches):	· · · · · · · · · · · · · · · · · · ·			
Well cover type: 8" or 12" UV	12" EMCO 🦳	8" or 12" E	BK [[−] 8" 6	Christy
12" Christy 8" M&D 7 12" I	M&D 12" DWF			
12" CNI 36" CNI 12" Pon	neco Other:			
Seneral condition of wellhead assembly:	Excellent (Good	FairX	2 Poor C
Purging Equipment:	sable bailer	Sub	mersible pump	
2" PVC I	bailer	☐ Ded	icated bailer	b.,
- 4" PVC I	bailer	Cen	trifugal pump	
4" PVC I Sampled with: Disposable bailer Well Diameter: 2" P Purge Vol. Multiplier: 0.16	bailer 7 Teflon bailer 4" - 0.65 -	- Cen Dispos 6"	trifugal pump sable Tubing 8" 2.61 gal/	
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 nitial Measurement Time: 09:47 Depth of well: 27.30 Depth of water: 14.13	bailer C Teflon bailer [4" [- 0.65[- <u>Recharge Measur</u> Time: <u>1233</u> Depth of water:	Cent Dispos 6" [1.47] rement [7./0	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p	ft. ourge: <u>6.5</u> ourge: <u>6.5</u>
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 nitial Measurement Time: <u>09:17</u> Depth of well: <u>27.30</u> Depth of water: <u>14.13</u> Start purge: <u>12/15</u>	bailer D Teflon bailer [4" [0.65] Recharge Measur Time:12 1 32 Depth of water: Sampling	Cent Dispos 6" [1.47] rement [7./0] Time: _/Z/9	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p	ft. ourge: <u>6.5</u> ourge: <u>6.5</u>
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 Initial Measurement Time: 09:17 Depth of well: 27.30 Depth of water: 14.13 Start purge: 12/15 Time Temperature	bailer C Teflon bailer 4" 0.65 Recharge Measur Time: <u>12133</u> Depth of water: Sampling E.C.	Cent Dispos 6" [1.47] rement [7,/0] Time: _/Z/9 pH	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p	ft. ourge: <u>6.5</u> ourge: <u>6.5</u>
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 nitial Measurement Time: 09:47 Depth of well: 27,30 Depth of water: 14.13 Start purge: 12/15 Time Temperature $4 \sqrt{12/18}$ 18.7	bailer D Teflon bailer [4" [0.65] <u>Recharge Measur</u> Time: <u>1233</u> Depth of water: Sampling E.C. 1270 mS	Cent Dispos 6" 1.47 rement 7.10 Time: <u>12; 9</u> pH 7.05	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p	ft. ourge: <u>6.5</u> ourge: <u>6.5</u> Volume 2.1
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 Initial Measurement Time: 09:97 Depth of well: 27.30 Depth of water: 14.13 Start purge: 12/15 Time Temperature \checkmark 12:18 13.2	bailer D Teflon bailer [4" [0.65] Recharge Measur Time:	Cent Dispos 6" 1.47 rement 5 17.10 Time: <u>1219</u> pH 7.05 7.15	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p	ft. purge: 6.5 purge: 6.5 Volume 2.1 4iZ
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 Initial Measurement Time: <u>09:17</u> Depth of well: <u>27.30</u> Depth of water: <u>14.13</u> Start purge: <u>12/15</u> Time Temperature $\cancel{12.116}$ 16.7 $\cancel{12.123}$ 18.2 $\cancel{12.30}$ 18.3	bailer D Teflon bailer [4" [0.65] Recharge Measur Time:	Cent Dispose $6" \ \Box$ 1.47 rement 17.10 Time: $12/9$ pH 7.05 7.15 7.13	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p	ft. ourge: <u>6.5</u> ourge: <u>6.5</u> Volume 2.1 4.2 6.5
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 Initial Measurement Time: <u>09:47</u> Depth of well: <u>27.30</u> Depth of water: <u>14.13</u> Start purge: <u>12/15</u> Time Temperature $\cancel{12:18}$ <u>18.7</u> $\cancel{12:18}$ <u>18.7</u> $\cancel{12:130}$ <u>18.3</u> $\cancel{12:30}$ <u>18.3</u>	bailer D Teflon bailer $[$ 4" $[$ 0.65 $[$ Recharge Measur Time: <u>1233</u> Depth of water: Sampling E.C. <u>1270 \mathscr{MS}</u> <u>1443 \mathscr{S}</u> <u>1448 \mathscr{MS}</u> 576C Volume: []	Cent Dispose $6" \ \Box$ 1.47 rement 17.10 Time: $12/9$ pH 7.05 7.15 7.13 6.5 $femllon$	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p 15 Turbidity	ft. urge: 6.5 urge: 6.5 Volume 2.1 4.2 6.5
Sampled with: Disposable bailer Well Diameter: 2" P Purge Vol. Multiplier: 0.16 nitial Measurement Time: 09:97 Depth of well: 27.30 Depth of water: 14.13 Start purge: 12/15 Time Temperature P 12:18 18.7 12:30 18.3 P 12:30 18.3 P P P P P P P P	bailer D Teflon bailer [4" [0.65] Recharge Measur Time:	Cent Dispose $6" \ \Box$ 1.47 rement 17.10 Time: 1219 pH 7.05 7.15 7.13 6.5 $femllen$	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p 15 Turbidity	ft. purge: 6.5 purge: 6.5 Volume 2.1 4.2 6.5
Sampled with: Disposable bailer \swarrow Well Diameter: 2" \heartsuit Purge Vol. Multiplier: 0.16 \heartsuit nitial Measurement Time: 09:97 Depth of well: 27.30 Depth of water: 14.13 Start purge: 12/15 Time Temperature $\cancel{12.1/8}$ 18.7 $\cancel{12.1/8}$ 19.7 $\cancel{12.1/8}$ 19.7	bailer D Teflon bailer $[$ 4" $[$ 0.65 $[$ Recharge Measur Time: <u>1233</u> Depth of water: Sampling E.C. <u>1270 \mathcal{MS}</u> <u>1443 \mathcal{LS}</u> <u>1443 \mathcal{LS}</u> <u>1444 \mathcal{LS}</u> <u>144 \mathcal{LS}</u> <u>144</u>	Cent Dispose 6" [1.47] rement 17.10 Time: <u>1219</u> pH 7.05 7.15 7.15 7.13 6.5 Leftllon	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p 75	ft. purge: 6.5 purge: 6.5 Volume 2.1 4.2 6.5
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 nitial Measurement Time: 09: 97 Depth of well: 27.30 Depth of water: 14.13 Start purge: 12/15 Time Temperature \checkmark 12:18 18.7 \checkmark 12:30 18.3 \checkmark 12:30 18.3 1	bailer D Teflon bailer [4" [0.65] Recharge Measur Time:	Cent Dispose 6" [1.47] rement 1'7.10 Time: $1'7.9$ pH 1'7.05 7.15 7.15 7.15 7.13 6.5 f statlon loc Lock: ote condition of re-	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p 75 Turbidity 8.	ft. vurge: 6.5 ourge: 6.5 Volume 2.1 4.2 6.5
Sampled with: Disposable bailer \checkmark Well Diameter: 2" \checkmark Purge Vol. Multiplier: 0.16 nitial Measurement Time: 09:97 Depth of well: 27.30 Depth of water: 14.13 Start purge: 12/15 Time Temperature \checkmark 12:18 18.2 \checkmark 12:30 18.3 \checkmark 13:30 \checkmark 13	bailer D Teflon bailer [4" [0.65] Recharge Measur Time:	Cent Dispose $6" \ \Box$ 1.47 rement 17.10 Time: <u>1219</u> pH 7.05 7.15 7.13 6.5 f stillen loc Lock: ote condition of reserved.	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p 75 Turbidity 5 Seplaced item(s) 7/32 Aller	ft. Volume 2.1 4iZ 6.5 6.5
Sampled with: Disposable bailer Well Diameter: 2" Purge Vol. Multiplier: 0.16 Initial Measurement 0.16 Time: 09:11 Depth of well: 27.30 Depth of well: 14.13 Start purge: 12/15 Time Temperature 12:118 18.2 12:128 18.2 12:130 18.3 13:130 18.3 <td>bailer C Teflon bailer C Teflon bailer C Teflon bailer C Time: C C C C C C C C C C C C C C C C C C C</td> <td>Cent Dispose $6" \ \Box$ 1.47 rement 17.10 Time: $12/9$ pH 7.05 7.15 7.15 7.15 7.13 6.5 f stallon loc Lock:</td> <td>trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p 75 Turbidity 5 Seplaced item(s) 7/32 Aller 9/16 Bold</td> <td>ft. purge: 6.5 purge: 6.5 Volume 2.1 4/.2 6.5 head:</td>	bailer C Teflon bailer C Teflon bailer C Teflon bailer C Time: C C C C C C C C C C C C C C C C C C C	Cent Dispose $6" \ \Box$ 1.47 rement 17.10 Time: $12/9$ pH 7.05 7.15 7.15 7.15 7.13 6.5 f stallon loc Lock:	trifugal pump sable Tubing 8" 2.61 gal/ Calculated p Actual p 75 Turbidity 5 Seplaced item(s) 7/32 Aller 9/16 Bold	ft. purge: 6.5 purge: 6.5 Volume 2.1 4/.2 6.5 head:

		SAM	LING INFORM	ATION SHEET
Client: <u>City of PANIS ella</u> Site:	ANERS	Samplir Project	ig Date: <u>8///</u> No.:	109
3514 Adala	n st.	Well De	signation: m	W-Z
onkland,	CA.			
s setup of traffic control devices required	? Ono CYe	s time:	hoi	Jrs
is there standing water in the well box?	ONO CYE	s 🗆 Abo	ve TOC 🕅 Bek	OW TOC
Is top of casing cut level?	C No We	es lf no, se	e remarks	
s well cap sealed and locked?	C No Serve	s If no, se	e remarks	
Height of well casing riser (in inches):	111			
Well cover type: 8" or 12" UV 12" Christy □ 8" M&DX0 12	12" EMCO T "M&D T 12" DWF	8" or 12" E	K	Christy
12" CNI - 36" CNI - 12" PC	omeco Other:			
General condition of wellhead assembly:	Excellent C	Good (Fair	Poor C
Purging Equipment: T 2" disp	osable bailer	🔀 Sub	mersible pump	
☐ 2" PVC	C bailer	☐ Ded	icated bailer	
4" PVC	bailer	Cen	trifugal pump	9
Sampled with: Disposable bailer	Teflon bailer [Dispos	able Tubing 🕅	
Well Diameter: 2" 🔀	o 4" □	6" [8"	
Purge Vol. Multiplier: 0.16	0.65	1.47	2.61 gal/	it.
nitial Measurement	Recharge Measur	ement		0
Time: 69:34	Time: 105	52	Calculated p	urge: 8.0
Depth of well: 29.50	Depth of water:	10.71	Actual p	ourge: 8.0
Depth of water: 13.00				
Start purge: /0:30	Sampling	Time: /015	5	
Time Temperatur	e E.C.	pН	Turbidity	Volume
× 10:34 18,1°C	1956 42	7.10		2.7
* 10:40 17.6°C	1710 2	7.32	_	5.4
* 10:45 17,50%	- 1583 43	7.24		8.0
Purestel Bur 3x's	TOTAL Volum	12 = 56 4000	long	
			1	
Sample appearance:	ENAL	Lock:		
Equipment replaced: (check	all that apply) No	ote condition of re	placed item(s)	5
2" Locking Cap: 🔽 🔤	Lock: [7/32 Aller	nhea d :
4" Locking Cap:	Lock-Dolphin:		9/16 Bold	
6″ Locking Cap:	Pinned Allenhea	d (DWP) 🗌		
Remarks:				
Signature:				

		SAMPLING	INFORMATI	ON SHEET
Client: City of PANY'S Chraniens Site:		Sampling Date: Project No.:	\$/11/60	;
3574 Adalian ST.		Well Designation	n: Mw-	3
Conclored, CA.				
s setup of traffic control devices required?	No CYes	time:	hours	
s there standing water in the well box?	Vo CYes	Above TOC	Below T	oc
s top of casing cut level?	√o ØYes	If no, see remar	ks	
s well cap sealed and locked?	No YYes	If no, see remark	ks	
Height of well casing riser (in inches):				
Well cover type: 8" or 12" UV □ 12" EMC 12" Christy □ 8" M&D ✓ 12" M&D □ 12" CNI □ 36" CNI □ 12" Pomero □	0	8" or 12" BK 🦳	8" Chris	ly 🦳
General condition of wellhead assembly: Exc	ellent C	Good (Fair	Poor C
Purging Equipment: 2" disposable bailer		Submersible	pump	
2" PVC bailer		Dedicated ba	ailer	
4" PVC bailer		Centrifugal p	oump	4
Sampled with: Disposable bailer 🗡 Tefl	on bailer 🦳	Disposable Tu	bing (
Purge Vol. Multiplier: 0.16 0.65 Initial Measurement Recharge Time: 0.16 Time: Depth of well: 29.93 Depth of Depth of water: 15.22	- 1.47 <u>ne Measurement</u> <u>12:05</u> f water: <u>25.1</u>	2.61 2.61 C	gal/ft. alculated purge: Actual purge	7.0
Start purge:	Sampling Time	12:05		
Time Temperature E.C	2.	pH Tu	irbidity	Volume
1149 18,2 15%	0 6	92 -	_	2.3
¥ 11:54 12.4 157	9 7	195 -	_	4.6
11:58 17:5 158	5 7.	32 -	-	20
Diewnstiensel 3 x's TOTAL Volum	Pursped ?	+ b=pellones.		
Sample appearance: Arnan Pland	in (ndor)	Lock:]
Equipment replaced: (check all that apply)	Note co	ndition of replaced i	tem(s)	
2"Locking Cap:	-		7/32 Allenhead	•
4" Locking Cap:	olphin:		9/16 Bold	
6" Locking Cap: Pinner	Allenhead (D)A	/P) [STIC LIGHT	.*
e reaving only 1 Linter	, and an out of the set	• 71	and the state of the state	
Remarks: Odor				
Signature: #C				

	and the second sec	Constraints of the part of the sector	And the second second second		ATION SHEET
Client: <u>CITY</u> Site:	of PANUS CLAR	NEWS	Sampling Project N	Date: <u>8/11/0</u> o.:	19
351	4 Adalina .	57.	Well Des	ignation: In	D well
Ont	land, CA.			30TH END	and in Trucking
Is setup of traffic control d	evices required?	XNo CYe	s time:	bou	
Is there standing water in	the well box?	XNo Ye	s Above		W TOC
Is top of casing cut level?		C No (Sele	s If no, see	remarks	
Is well cap sealed and lock	ked?	C No (Sole	s If no, see	remarks	
Height of well casing riser	(in inches): 4	"			
Well cover type: 8" or 12" Christy 8" M 12" CNI 36" CNI	r 12" UV ┌─ I&DT\$ 12" M& ┌──── 12" Pomec	12" EMCO ┌─ D ┌─ 12" DWP o ┌─ Other:	8" or 12" B	K 8" C	Christy
General condition of wellh	iead assembly:	Excellent 🏸	Good (Fair (Poor C
Purging Equipment:	2" disposab	le bailer	Subm	ersible pump	
	2" PVC bail	er	☐ Dedic	ated bailer	80
	T 4" PVC bail	er	Centr	ifugal pump	· **
Sampled with: Disp	oosable bailer 🗙	Teflon bailer [Disposa	ble Tubing 🦳	
Well Dian	neter: 2"'X	4" [6"	8" [
Purge Vol. Multiplier:	0.16	0.65	1.47	2.61 gal/fi	
Initial Measurement		Recharge Measure	ement		
Time: 09:25		Time: 10:02	2	Calculated pt	irge: 19,70
Depth of well: 54.	41	Depth of water:	17.37	Actual p	urge: _20,0
Depth of water: 13.	35				
Start purge:	09:45	Sampling	Time: 10	:10	
		-			
Time	Temperature	E.C.	pH	Turbidity	Volume
Time OCI: 48	Temperature	E.C.	рН 12.20	Turbidity	Volume
Time 09:48	Temperature 17.5 C 17.5 9	E.C. 1010 MS	рн 7.29 7.53	Turbidity	Volume 6.5
Time 09:48 09:53	Temperature 17.5 C 17.5 C 17.5 C	E.C. 1010 MS 888 MS 880 MS	рн 7.29 7.53 7.53	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:58	Temperature 17.5 C 17.5 C 17.5 C 17.4 C	E.C. 1010 MS 888 MS 880 MS	рн 7.29 7.53 7.59	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:58	Temperature 17.5 C 17.5 C 17.5 C	E.C. 1010 MS 888 MS 880 MS	рн 7.29 7.53 7.59	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:58 Sample appe	Тетрегаture 17.5 °C 17.5 °C 17.4 °C	E.C. 1010 MS 888 MS 880 MS	рН 7.29 7.53 7.59 2.59	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:58 Sample appe Equipment re	Temperature 17.5 °C 17.5 °C 17.5 °C 17.4 °C earance: Clear eplaced: (check all th	E.C. 1010 MS 888 MS 880 MS at apply) No	pH 7.29 7.53 7.59 2,59 Lock	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:58 Sample appe Equipment re	Temperature 17.5% 17.5% 17.5% 17.4% earance: <i>Clear</i> eplaced: (check all the	E.C. 1010 MS 888 MS 880 MS 880 MS at apply) No	pH 7,29 7,53 7,59 Lock	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:58 Sample appe Equipment re 2" Locking Cap: 4" Locking Cap:	Temperature 17.5% 17.5% 17.5% 17.4% earance: <i>Clear</i> eplaced: (check all the	E.C. 1010 MS 888 MS 880 MS 880 MS at apply) No Lock: [pH 7,29 7,53 7,59 Lock	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:58 Sample appe Equipment re 2" Locking Cap: [] 4" Locking Cap: [] 6" Locking Cap: []	Temperature 17.5 C 17.5 C 17.5 C 17.4 C earance: <u>Clear</u> eplaced: (check all th	E.C. 1010 MS 888 MS 880 MS 880 MS at apply) No Lock: [Lock-Dolphin: [Pinned Allenhead	pH 7.29 7.53 7.59 Lock: Dte condition of rep	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:58 Sample appe Equipment re 2" Locking Cap: []	Temperature 17.5 C 17.5 C 17.5 C 17.5 C 17.5 C 17.5 C 17.5 C 2000 200	E.C. 1010 MS 888 MS 880 MS 880 MS at apply) No Lock: Lock-Dolphin: Pinned Allenhead	pH 7,29 7,53 7,59 Lock: te condition of rep	Turbidity	Volume 6.5 13.0 20.0
Time 09:48 09:53 09:53 09:58 Sample appe Equipment re 2" Locking Cap: [] 4" Locking Cap: [] 6" Locking Cap: [] Remarks:	Temperature 17.5% 17.5% 17.5% 17.4% sarance: CEAR splaced: (check all the second	E.C. 1010 MS 888 MS 880 MS 880 MS at apply) No Lock: [Lock-Dolphin: [Pinned Allenhead	pH 7,29 7,53 7,59 Lock: →te condition of rep	Turbidity	Volume 6.5 13.0 20.0

Spar Tech Environmen	Sparger Technology, Inc. Environmental Laboratories Project Contact (PDF To): Tom Ballard (to email address's)			3738 Sacr Lab: Fax:	8 Brac ramer 916 916	dviev hto, (6.369 6.369	v Driv CA 95 .7688 .7689	e 827 3					со)C # /	/ Lab	No					18	39	9	3	6		10-50	Pag	je	1 (of 1
Tom Ballar	d (to email addres	s's)		Cam	oma	LDI	Kep	onr		~	Yes		_ No			Chain-of-Custody Record and Analysis Reque							est								
Company / A Taber Com	ddress: sultants: 3911 We	st Capitol Av	/e.	Sam WR	MC	Con	ipany	Log	Co	de:						тт	_	-	_	An	alys	sis F	Requ	ues	st				_	TA	Т
Phone #: 916-371-16 Project #: 51074 Project Name	90 9:	Fax #: 916-371-72 P.O. #: 3	65 A	Deliv inbo pleas SNe Sam	ver all <u> x@1</u> se en ess@ pler s	files abe nail a Tab Signa	rCon copy erCo ature:	isulta / to: onsul	ants	s.co	m om	7					(8)		50B)	1 2 FDR-FPA 8260B)		ist (EPA 8260B)		015M)	A 8015M)			vents		12 h 12 h 24 h	ır 1r
GMR CityO Project Addre	OfParis	Si	ampling	0	Con	taine			Pres	erva	ative	T	Ма	trix	xi xi 015) A 8260B) 015) CA & 1,2 CA & 1,2 CA & 1,2 CA & 1,2 CA & 1,2 Control Control Control Control				481	nr											
3514 Adelii Oakland, C	ne St. A	_		nl VOA	eve V	ss / L Hab	lar		03	e		ter					3E\BTEX (EP)	I Gas (EPA 80	xygenates (EF	d Scav (1.2 D		atile Organics		I as Diesel (E	I as Motor Óil	I Lead (EPA	T. Lead (ST	I-SS Stoddar	omatagran	□ 72 I	٦r
Sample ID	Field Point Name	e Date	Time	401	Pol	Gla	Ted	R	NH	Nor		Wa	Soil	Air			MIE	4	203	Pa		Vola		TPF	TPF	Tota	W.E	TPH	- E	1 w	k
MVV-1	MW-1	8/11/09	12:45	3		1		×		x		X					х	X										х	X	x	
MW-2	MW-2	72.	10:55	3		1		X		K		X					х	X									_ (х	X	x	
MW-3	MW-3	1.5	12:05	3		1		X		X		X	•				x	x										X	X	x	
W-IND	W-IND	8/11/09	10:10	3		1		X		×		Þ			1	\square	x	x										х		x	
		14 S.C.		\square		\square	_		-			+-		_	_	+	+	+	_	_	+	-					_	_	_	_	<u> </u>
				+	+	$\left \right $	+	+		$\left \right $		╀	\mathbb{H}	+	╋	++	+	+	+	+	+	+	$\left \right $	-		-		-		+	+-
												1																			
Relinquished b	y:	3	Date 8/13/09		Tin /4,	ne 125	Receiv	ved b	Ž	2	h	L N				F	Rem plea	arks se s aple	ave ave	file(s	s), Pi	DF's,	EDI	= & : h_d	xLS lay	nar pi	ne a roje	is: ect	nam	 ieW	0#
Relinquished by: Date Time				ne	Receiv	ved b	y:				2	9 ²			EXA 200 Bill to	MM 9_0	PLE	:: 10_(GMI	R_C	ity(OfP	aris	s_1	849	95 om					
Relinquished b	y:		Date		Tin	ne	Receiv	ved b	y La	abora	tory:					+		1	100	F	or L	ab U	lse (Only	/:	San	nple	Re	ceipt		
																ļ	Ten	np °(0	Initi	als		Da	ite		Tin	ne		22.04	T	
																1.1		_			_				-						

Supporting Document 20

8/6/2009 CityOfParis_Semi-1st-3rd_COC_Sparger

-

Sparger Technology, Inc. Environmental Laboratories	0)	373 Sac Lab	38 E cran 5: { c: {	Brady nent 916.	view o, C 369. 369.	Drive A 95 7688 7689	e 827					C	DC #	/ Lat	o No.						18	39	9	4			Pag	e 1		of	1
Tom Ballard (to email address'	s)		Cal	litori	nia E	=DF	Кер	οπγ		1	Yes	Ľ	N	0		С	ha	in-	of-C	Cus	toc	ly F	Rec	ord	lar	nd A	Ana	alys	is F	lequ	les	t
Company / Address: Taber Consultants: 3911 West West Sacramento, CA 95691	Capitol Av	е.	Sar WF Glo	mpli RM(ing (C ID:	Com	pany T060	Log	Coc	de: '9						1				A	naly	/sis	Rec	que	st			-1	-	ТА	AT	
Phone #: 916-371-1690 9 Project #: 51074 Project Name: NoPurge CityOfP	Fax #: 9 16-371-72 6 P.O. #: 3A	5	Del inb plei SN Sar	liver ox(ase less mple	ema ema s@Ta	files abei ail a Fabei gna	to: rCon copy erCo ture:	sulta to: nsul	ants tan	s.co	om						60B)		260B)		\$ 1,2 EDB-EPA 8260E	I ist (FPA R760B)		8015M)	PA 8015M)	(0		olvents		12 24] hr] hr	
Project Address: 3514 Adeline St. Oakland, CA	Sa	mpling	mi VOA	eve	ionta	ainer 74002 SSB	dlar J		03	erva	ative	ater	M	atrix			BE\BTEX (EPA 82	H Gas (EPA 8015))xygenates (EPA 8		ad Scav.(1,2 DCA	atile Organics Full		H as Diesel (EPA	H as Motor Oil (E	al Lead (EPA 601	E.T. Lead (STLC)	H-SS Stoddard S	romatagrams	48 [72	hr] hr	
Sample ID Field Point Name MW-1 NP MW-1	Date 8/11/09	Time /1:15	W 40	Sle	Po	1	Te	× × HO	H	× No		×	So	Air			TM X X	X X TP	50		, e	No		TP	TP	Tot	.N	X	ชั่ X X	1 w x x	vk <	
MW-3 NP MW-3	8/11/09	11:30	3			1		×		Ý		×					X	X		_							_	X	x		(
				_		_	-													_								_		F		
Relinquished by:		Date	/	/	Time 4:2 Time	e F S e F	Receiv	ved b	y: X	Z.	Re					1	Rer ple sa	nark ase mp (AN	save save le d	file ate E:	(s), I yea	PDF'	s, EC	DF &	XLS	S nar	ne a roje	is: ect i	name	e_ W	/0#	
Relinquished by:		Date			Time	ə F	2009_08_10_NoPurge_CityOfP_12345 Bill to: ASandino@TaberConsultants.com Received by Laboratory: For Lab Use Only: Sample Receiption			ceipt			_																			
																	Te	mp	0	Ini	tials		D	ate		fin	ne			\vdash		_

InStrat, Inc.		and the standard and	and the second	NE CALLER AND
P.O. Box 2279 (530) Davis, CA 95617	753-1829	8378	CUSTOMER P.O.	
CHARGE -			DATE 8-1	13-09
ADDRESS	Consultants		DAY OF The	rsday
			ty of Pari	S Cleans
	DESCRIPTION	DESTINATION	3516 Adeline	St. ackland -
Monitoring well dewaterin	g / pump test		QTY/HRS RATE	CHARGES
Auger rinsate	Underground storage tank (UST)			
Spill/ release (not UST rel	ated) Surface Impoundmen	nt		
Drums A	Above ground storage tank		1	
Solids				/ol.
Color				
Odor DY	Sani-chlor			74
Solids	Filters			
Other %	Powersorb Sheet			
Transporter Talo	THIS TOTAL WILL STAND AS CORRECT I			
age,	TERMS NET 30 DAYS, THE CLISTOMER	CREESS TO DIVISION CORRECTION	SALES TAX	
E Barrisse	PER MONTH, WHICH IS AN ANNUAL RA	TE OF 24% ON PAST DUE ACCOUN	OF 2% TS. TOTAL	
	SIGNED BY X	·	COLLECT	
Colors - aleen	-			
Oders - pr				
Solids-D				
15. Special Handling Instructions an	d Additional Information			
Ŧ N				
			_	
16. GENERATOR'S CERTIFICATIO	ON: I hereby certify that the contents of this shipme	int are fully and accurately described a	nd are in all respects	
in proper condition for transport.	The materials described on this manifest are not s	ubject to rederal nazardous waste regi	alations.	
Printed/Typed Name		Signature		Month Day Year
T 17 Terrender 1 Asimouladaman	t of Descipt of Materials	L		
R Printed/Typed Name		Signature		Date Month Day Year
SP STEWANT 10	-irtr	Shi		8 13 5
Printed/Typed Name	t of Heceipt of Materials	Signature		Date Month Day Yea
<u>R</u>				
F				
Ĉ				
L Znstrat	ification of receipt of the waste materials covered b	by this manifest, except as noted in iten	n 19.	Date
T Printed/Typed Name	Polelar	Signature	2.11.	Month Day Yea
mar D	ercher	arread 1	alune	5 15 0
F-14 © 2002 LABEL MASTER ® (800) 62	1-5808 www.labelmaster.com Suppo	orting Document 22	PRINTED WITH	<u>×</u>

APPENDIX B LABORATORY REPORTS



Tom Ballard Taber Consultants 3911 West Capitol Ave. West Sacramento, CA 95691

Client	Taber Co	nsultants
Workorder	18994	NoPurge_CityOfP
Received	08/13/09	

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

DUP - Matrix Duplicate MS - Matrix Spike MSD - Matrix Spike Duplicate LCS - Lab Control Sample LCSD - Lab Control Sample Duplicate RPD - Relative Percent Difference QC - Additional Quality Control DIL - Results from a diluted sample ND - None Detected RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

MES

Ray James Laboratory Director

 Certification No. 1614
 Page 1 of 8

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689

Tom Ballard Taber Consultants 3911 West Capitol Ave. West Sacramento, CA 95691

Workorder 18994

Enclosed are the results from samples received on August 13, 2009.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
18994001	MW-1 NP, Water	08/11/09	8015B Stoddard Solvent 8015B TPHgas 8260B BTEX/FOC
18994002	MW-3 NP, Water	08/11/09	8015B Stoddard Solvent 8015B TPHgas 8260B BTEX/FOC

Certification No. 1614



Test Certificate of Analysis

Client ID	Taber Consultants						
Workorder #	18994		We	orkorder ID	NoPurge_CityC	θfP	
Laboratory ID	18994001		Sa	mpled (08/11/09		
Sample ID	MW-1 NP		Re	ceived (08/13/09		
Matrix	Water		Re	ported (08/27/09		
8015B Stoddar Parameter	rd Solvent	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	6000	50.0 ug/L	1:1
Laboratory ID	18994001		Sa	mpled (08/11/09		
Sample ID	MW-1 NP		Re	ceived (08/13/09		
Matrix	Water		Re	ported (08/27/09		
8015B TPH G Parameter	as	Method	Prep Date	Analyzed	Result	RL Units	Dilution
\mathbf{TPHgas}^{1}		8015B TPHgas	08/14/09	08/14/09	10000	500 ug/L	1:10
Surrogates		Result	Recovery	Limits			
Trifluorotol	uene	21 ug/L	105 %	(65 - 135)		

1 - Non-typical TPH pattern present in gas range.

Laboratory ID Sample ID	18994001 MW-1 NP		Sa Re	mpled 08	8/11/09 8/13/09				
Matrix	Water		Re	ported 08	08/27/09				
8260B Oxygena Parameter	ates	Method	Prep Date	Analyzed	Result	RL Units	Dilution		
Methyl-tert-b	outyl-ether	8260B BTEX/FC	C 08/18/09	08/18/09	ND	0.50 ug/L	1:1		
Benzene		8260B BTEX/FC	C 08/18/09	08/18/09	ND	1.0 ug/L	1:1		
Toluene		8260B BTEX/FC	C 08/18/09	08/18/09	ND	1.0 ug/L	1:1		
Ethylbenzene		8260B BTEX/FC	C 08/18/09	08/18/09	ND	1.0 ug/L	1:1		
Xylene,Total		8260B BTEX/FC	C 08/18/09	08/18/09	ND	1.0 ug/L	1:1		

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	55 ug/L	110 %	(65 - 135)



Test Certificate of Analysis

Client ID	Taber Consultants						
Workorder #	18994		W	orkorder ID	NoPurge_CityC	ofP	
Laboratory ID	18994002		Sa	mpled	08/11/09		
Sample ID	MW-3 NP		Re	eceived	08/13/09		
Matrix	Water		Re	eported	08/27/09		
8015B Stoddar Parameter	rd Solvent	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	3000	50.0 ug/L	1:1
Laboratory ID	18994002		Sa	mpled	08/11/09		
Sample ID	MW-3 NP		Re	eceived	08/13/09		
Matrix	Water		Re	eported	08/27/09		
8015B TPH G Parameter	as	Method	Prep Date	Analyzed	Result	RL Units	Dilution
\mathbf{TPHgas}^{1}		8015B TPHgas	s 08/14/09	08/14/09	6700	500 ug/L	1:10
Surrogates		Result	Recovery	Limits			
Trifluorotol	uene	21 ug/L	105 %	(65 - 135)		

1 - Non-typical TPH pattern present in gas range.

Laboratory ID	18994002		Sa	mpled 03	8/11/09						
Sample ID	MW-3 NP		Re	ceived 08	8/13/09						
Matrix	Water		Re	Reported 08/27/09							
8260B Oxygena Parameter	ates	Method	Prep Date	Analyzed	Result	RL Units	Dilution				
Methyl-tert-b	outyl-ether	8260B BTEX/FO	C 08/18/09	08/18/09	ND	0.50 ug/L	1:1				
Benzene		8260B BTEX/FO	C 08/18/09	08/18/09	ND	1.0 ug/L	1:1				
Toluene		8260B BTEX/FO	C 08/18/09	08/18/09	ND	1.0 ug/L	1:1				
Ethylbenzene		8260B BTEX/FO	C 08/18/09	08/18/09	ND	1.0 ug/L	1:1				
Xylene,Total		8260B BTEX/FO	C 08/18/09	08/18/09	ND	1.0 ug/L	1:1				

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	53 ug/L	106 %	(65 - 135)



Environme	ntal Laboratorie	S	Method Blank	Report			
Client ID Laboratory ID	Taber Consultants 91707			Sample ID Matrix	MB for HBN 3 Water	71750 [VMXV/31	66]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-	butyl-ether	8260B B1	rex/foc08/18/09	08/18/09	ND	0.50 ug/L	1:1
Benzene		8260B B1	TEX/FOC08/18/09	08/18/09	ND	1.0 ug/L	1:1
Toluene		8260B B1	TEX/FOC08/18/09	08/18/09	ND	1.0 ug/L	1:1
Ethylbenzene		8260B B1	TEX/FOC08/18/09	08/18/09	ND	1.0 ug/L	1:1
Xylene,Total		8260B B7	TEX/FOC08/18/09	08/18/09	ND	1.0 ug/L	1:1
Surrogates		Result	Recovery	Limits			
1,2-Dichloro	ethane-d4	56 ug/	/L 112 %	(65 - 1	35)		
			Lab Control San	ple Report			
Client ID Laboratory ID	Taber Consultants 91708			Sample ID Matrix	LCS for HBN 3 Water	371750 [VMXV/31	.66]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-	butyl-ether	8260B B1	TEX/FOC08/18/09	08/18/09	50	0.50 ug/L	1:1
Benzene		8260B B1	TEX/FOC08/18/09	08/18/09	44	1.0 ug/L	1:1
Toluene		8260B B1	TEX/FOC08/18/09	08/18/09	42	1.0 ug/L	1:1
Ethylbenzene		8260B B1	rex/FOC08/18/09	08/18/09	50	1.0 ug/L	1:1
Xylene,Total		8260B B1	TEX/FOC08/18/09	08/18/09	147	1.0 ug/L	1:1
]	Lab Control Sample	Duplicate Repo	ort		
Client ID Laboratory ID	Taber Consultants 91709			Sample ID Matrix	LCSD for HBN Water	1 371750 [VMXV/	3166
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-	butyl-ether	8260B B1	rex/foc08/18/09	08/18/09	51	0.50 ug/L	1:1
Benzene		8260B B1	TEX/FOC08/18/09	08/18/09	44	1.0 ug/L	1:1
Toluene		8260B B1	rex/FOC08/18/09	08/18/09	38	1.0 ug/L	1:1
Ethylbenzene		8260B B1	rex/FOC08/18/09	08/18/09	46	1.0 ug/L	1:1
Xylene,Total		8260B B1	TEX/FOC08/18/09	08/18/09	133	1.0 ug/L	1:1
			Matrix Spike	Report			
Client ID Laboratory ID	Taber Consultants 91710			Sample ID Matrix	MS for HBN 3' Water	71750 [VMXV/310	56]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-	butyl-ether	8260B B1	FEX/FOC08/18/09	08/18/09	50	0.50 ug/L	1:1

 Certification No. 1614
 Page 5 of 8

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



LINIOIIIIEI	ital Laboratorie	5	Matrix Spike	Report			
Client ID Laboratory ID	Taber Consultants 91710			Sample ID Matrix	MS for HBN 3' Water	71750 [VMXV/310	56]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
(continued)							
Benzene		8260B BTEX/FO	DC08/18/09	08/18/09	44	1.0 ug/L	1:1
Toluene		8260B BTEX/FO	DC08/18/09	08/18/09	40	1.0 ug/L	1:1
Ethylbenzene		8260B BTEX/FO	DC08/18/09	08/18/09	49	1.0 ug/L	1:1
Xylene,Total		8260B BTEX/FO	DC08/18/09	08/18/09	144	1.0 ug/L	1:1
		Mati	ix Spike Dup	licate Report			
Client ID Laboratory ID	Taber Consultants91711			Sample ID Matrix	MSD for HBN Water	371750 [VMXV/3	166]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-k	outyl-ether	8260B BTEX/FO	DC08/18/09	08/18/09	57	0.50 ug/L	1:1
Benzene		8260B BTEX/FO	DC08/18/09	08/18/09	47	1.0 ug/L	1:1
Toluene		8260B BTEX/FO	DC08/18/09	08/18/09	42	1.0 ug/L	1:1
Ethylbenzene		8260B BTEX/FO	DC08/18/09	08/18/09	49	1.0 ug/L	1:1
Xylene,Total		8260B BTEX/FO	DC08/18/09	08/18/09	145	1.0 ug/L	1:1
		I	Method Blank	. Report			
Client ID Laboratory ID	Taber Consultants 91712			Sample ID Matrix	MB for HBN 3 Water	71753 [VGXV/30]	[8]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	ND	50 ug/L	1:1
Surrogates Trifluorotolu	lene	Result 21 ug/L	Recovery	7 Limits (65 – 1	35)		
		La	b Control San	nple Report			
Client ID Laboratory ID	Taber Consultants 91713			Sample ID Matrix	LCS for HBN 3 Water	371753 [VGXV/30	18]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	938	50 ug/L	1:1

 Certification No. 1614
 Page 6 of 8

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



LINIONINE		Lab Co	ntrol Sample	Duplicate Repo	ort		
Client ID Laboratory ID	Taber Consultants 91714			Sample ID Matrix	LCSD for HBN Water	N 371753 [VGXV/3	8018
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	887	50 ug/L	1:1
Client ID Laboratory ID	Taber Consultants 91715	Ν	Aatrix Spike I	Report Sample ID Matrix	MS for HBN 3' Water	71753 [VGXV/301	8]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	970	50 ug/L	1:1
		Matr	ix Spike Dup	licate Report			
Client ID Laboratory ID	Taber Consultants 91716			Sample ID Matrix	MSD for HBN Water	371753 [VGXV/30	018]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	903	50 ug/L	1:1
		Ν	Aethod Blank	Report			
Client ID Laboratory ID	Taber Consultants 91740			Sample ID Matrix	MB for HBN 3 Water	71956 [SGXV/260	1]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	ND	50.0 ug/L	1:1
Client ID	Tabor Consultants	Lat	o Control San	nple Report	LCS for HBN	271056 [SCXV/26	
Laboratory ID	91741			Matrix	Water	5/1950 [SUX V/200)1]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	900	50.0 ug/L	1:1
Client ID Laboratory ID	Taber Consultants 91742	Lab Co	ntrol Sample	Duplicate Repo Sample ID Matrix	ort LCSD for HBN Water	V 371956 [SGXV/2	601
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	- 08/17/09	08/26/09	1000	50.0 ug/L	1:1

 Certification No. 1614
 Page 7 of 8

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



QC SUMMARY

Client ID	Taber Consultants		Origin	al 1898600	1	
QC Batch	VMX 3206		Sampl	es Matrix S	pike [91710]	
Matrix	Water		-	Matrix S	pike Duplicate	e [91711]
		Spike	Spike Dup	Recovery		RPD
Parameter		%Recovery	%Recovery	Limits	RPD	Limits
Methyl-tert	-butyl-ether	100	114	(65-135)	13	(20 MAX)
Benzene		88	94	(65-135)	6.6	(20 MAX)
Toluene		80	84	(65-135)	4.9	(20 MAX)
Ethylbenzer	ne	98	98	(65-135)	00	(20 MAX)
Xylene,Tota	al	96	97	(65-135)	1.0	(20 MAX)
Client ID	Taber Consultants		Origin	al 1898600	1	
QC Batch	VGX 3138		Sampl	es Matrix S	pike [91715]	
Matrix	Water			Matrix S	pike Duplicate	e [91716]
		Spike	Spike Dup	Recovery		RPD
Parameter		%Recovery	%Recovery	Limits	RPD	Limits
TPHgas		97	90	(65-135)	7.5	(20 MAX)
Client ID	Taber Consultants		Sampl	es Lab Cont	rol Sample [9	1708]
QC Batch	VMX 3206			Lab Cont	rol Sample D	uplicate [91709]
Matrix	Water					
		Check	Check Dup	Recovery		RPD
Parameter		%Recovery	%Recovery	Limits	RPD	Limits
Methyl-tert	-butyl-ether	100	102	(65-135)	2.0	(20 MAX)
Benzene		88	88	(65-135)	00	(20 MAX)
Toluene		84	76	(65-135)	10	(20 MAX)
Ethylbenzer	ne	100	92	(65-135)	8.3	(20 MAX)
Xylene,Tota	al	98	89	(65-135)	9.6	(20 MAX)
Client ID	Taber Consultants		Sampl	es Lab Cont	rol Sample [9	1713]
QC Batch Matrix	VGX 3138 Water			Lab Cont	rol Sample D	uplicate [91714]
		Check	Check Dun	Recoverv		RPD
Parameter		%Recoverv	%Recoverv	Limits	RPD	Limits
TPHgas		94	89	(65-135)	5.5	(20 MAX)
Client ID	Taber Consultants		Sampl	es Lab Cont	rol Sample [9	1741]
QC Batch Motrix	SGX 2631 Water			Lab Cont	rol Sample D	uplicate [91742]
	w ater	Check	Check Dup	Recovery		RPD
Parameter		%Recovery	%Recovery	Limits	RPD	Limits
Stoddard Sc	olvent	90	100	(65-135)	11	(20 MAX)

 Certification No. 1614
 Page 8 of 8

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689

Sparge Techn	er ology.nc.	1		373 Sa	38 B cram	radvie nento,	CA 1	rive 9582	.7					~~~	0 # 1	Leb M						18	99	14	ł			Pag	. 1		xF 1
Entertoristication				Fai). s , c	16.30	9.76	89						CO	C#/	Lab N	0,	-		-		-						Page	8 1	. (
Project Contact	(PDF To):			Ca	liforr	nia ED	DF Re	eport	?			00] Nie			01		- 6 (2				a al				luce			t
Tom Ballard	to email addres	s's)						9			ا اینیا	C5		1 140			Cna	In	-01-(Jus	stoc	IY R	eco	ra	an		vua	ilys	IS F	equ	est
Company / Add	ress			Sa	mpli	ng Co	mpa	ny Lo	og C	ode	e:									A	nal	/sis	Real	les	t					TA	т
Taber Consul	itants: 3911 We	st Capitol Av	е.	W	RMO	2						_				<u> </u>		_				10101	T			-					-
West Sacram	ento, CA 95691	-		Glo	bal	ID:	TO	600	100	379)				_	- 1					(B)										
Phone #:		Fax #:		De	liver	all file	es to														3260	â								121	nr
916-371-1690		916-371-720	65	int)XO(2 Tak	erC	onsi	ultar	nts.	com	1	_		_	- 1					APA	2601								-	
Project #:		P.O. #: 3A		ple	ase	email	a co	opy to	0:												8-8	A 8.			Ŵ						
Droject Montes				SN	less		iper(Jons	sulta	ants	5.CO	m	_	_		- 1					ED	EP		Î	015			nts		24	11
Project Name:	0.00			Sa	mple 5	ar Sig	natur	E.	1	1	-	2					0B)	1	60B		1.2	ist		015	A 8			Ive			
Project Address	1012		malian	0	-		~	-1	P	1		iiu co	-	Me	triv	- 1	826	2)	1 82		A&	Illi		8 A 8	(EF	010	0	So	10	18	ar
3514 Adoline	St	Sa	Impling	-		ontái	1er		P	pese	rvat	live	+	Ivia		-	PA	801	EP		DC	CS F		(EF	0.	9 Y 6	STL	lard	IUIE	40	"
Oakland, CA	01.	_		ml VOA	eve	ly acc _	dlar			03	ne		ater	I.			BE\BTEX (E	H Gas (EPA)xygenates		ad Scav.(1,2	latile Organi		H as Diesel	H as Motor	tal Lead (EF	E.T. Lead (H-SS Stode	Iromatagr	72	hr
Sample ID	Field Point Nam	e Date	Time	40	Sle	0d	Te		¥ E	£ ;	Z		Š	So	Air		TM	F	50		Le	%		E	TP	10	S	4	0	1 1	/k
MW-1 NP	MW-1	8/11/09	11:15	3		1			X		x		X				X	X										X	X	×	
AND TO A	-	1							30				Γ				X	X										х	X	×	
MW-3 NP	MW-3	8/11/05	11:30	3		1			x		N		X				X	X										X	X	×	
111			11130	1			+	\square		+			1						П												
				+		-	+		+	+	+	-	+	\square			-	t												1	
	-			+			+		+	+	+	-	+		-	++	-	+	-		-	+	+				+	-	-	+	-
				+		-	+	+ +	-	+	+	-	-	-	-		-	+	-		-	-					+	+	+	+-	-
				+-			+	$\left \right $	-	+	+	-	+	-		++	+	+	-		-	-	+	-		\vdash	+	+	+	+-	+
				-		-	-		-	-	-	-	-			++	-	-	-		-	-		_	-		-	-	-	+	-
				_					_	-	_		-				_	-			_	_		_			-	_	_	+	-
Relinquished by:			Date	. ,		Time	Re	ceive	d by:		6						Re	ma	rks:												
525	Frank	~	5/12/	h	1	4:20	s	(7	X	2	he					ple	as	e sav ple o	e fili date	e(s), e ve	PDF's	, EDI	F&	xLS	nan pi	ne a roje	es:	nam	e W	O#
Relinquished by:	-		Date	/	-	Time	Re	ceive	d by			-					F	XA	MPI	E.					-	-	-		-	-	
	/																20	100	0.0	10	N	Dur	10 1	-16-1	08	D 1	22	15			
																	Bil	Lto	00	10	TRC	Tur	har	any		tant	6.34	0			_
Palinguished hu			Data		_	Time	- P-	coluc	d bu:	1.04	orat	0.01						0.	AS	and		w la	vert	Jon	ISUI	Con	S.C		opirt		
rsennquisned by:			Date			ime	rke	Leive	u by	Lat	orati	ury.							10		FOR	Lap	Jse (Juli	y.	San	pie	e Ke	ceipt	-	
																	Т	emp	D° C	Ir	nitials		Da	ate		fin	ne			_	



Tom Ballard Taber Consultants 3911 West Capitol Ave. West Sacramento, CA 95691

Client	Taber Co	onsultants
Workorder	18993	GMR_CityOfParis
Received	08/13/09	

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

DUP - Matrix Duplicate MS - Matrix Spike MSD - Matrix Spike Duplicate LCS - Lab Control Sample LCSD - Lab Control Sample Duplicate RPD - Relative Percent Difference QC - Additional Quality Control DIL - Results from a diluted sample ND - None Detected RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

MES

Ray James Laboratory Director

 Certification No. 1614
 Page 1 of 10

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689

Tom Ballard Taber Consultants 3911 West Capitol Ave. West Sacramento, CA 95691

Workorder 18993

Enclosed are the results from samples received on August 13, 2009.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
18993001	MW-1, Water	08/11/09	8015B Stoddard Solvent 8015B TPHgas 8260B BTEX/FOC
18993002	MW-2, Water	08/11/09	8015B Stoddard Solvent 8015B TPHgas 8260B BTEX/FOC
18993003	MW-3, Water	08/11/09	8015B Stoddard Solvent 8015B TPHgas 8260B BTEX/FOC
18993004	W-IND, Water	08/11/09	8015B Stoddard Solvent 8015B TPHgas 8260B BTEX/FOC

Certification No. 1614



Test Certificate of Analysis

Client ID	Taber Consultants						
Workorder #	18993		We	orkorder ID (GMR_CityOfPa	aris	
Laboratory ID	18993001		Sai	npled (08/11/09		
Sample ID	MW-1		Re	ceived (08/13/09		
Matrix	Water		Re	ported (08/27/09		
8015B Stoddan Parameter	rd Solvent	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	13000	50.0 ug/L	1:1
Laboratory ID	18993001		Sai	npled (08/11/09		
Sample ID	MW-1		Re	ceived (08/13/09		
Matrix	Water		Re	ported (08/27/09		
8015B TPH Garameter	as	Method	Prep Date	Analyzed	Result	RL Units	Dilution
\mathbf{TPHgas}^{1}		8015B TPHgas	08/14/09	08/14/09	7800	500 ug/L	1:10
Surrogates		Result	Recovery	Limits			
Trifluorotol	uene	21 ug/L	105 %	(65 - 135))		

1 - Non-typical TPH pattern present in gas range.

Laboratory ID Sample ID	18993001 MW-1	Saı Re	Sampled 08 Received 08		8/11/09 8/13/09		
Matrix	Water		Re	ported 0	8/27/09		
8260B Oxygenates Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-b	utyl-ether	8260B BTEX/B	OC 08/18/09	08/18/09	5.9	5.0 ug/L	1:10
Benzene		8260B BTEX/F	FOC 08/18/09	08/18/09	ND	10 ug/L	1:10
Toluene		8260B BTEX/F	FOC 08/18/09	08/18/09	ND	10 ug/L	1:10
Ethylbenzene		8260B BTEX/F	FOC 08/18/09	08/18/09	ND	10 ug/L	1:10
Xylene,Total		8260B BTEX/F	FOC 08/18/09	08/18/09	ND	10 ug/L	1:10

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	56 ug/L	112 %	(65 - 135)

 Certification No. 1614
 Page 3 of 10

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



Test Certificate of Analysis

Client ID	Taber Consultants							
Workorder #	18993		We	orkorder ID	ID GMR_CityOfParis			
Laboratory ID	18993002		Sar	npled	08/11/09			
Sample ID	MW-2		Ree	ceived	08/13/09			
Matrix	Water		Re	ported	08/27/09			
8015B Stoddan Parameter	rd Solvent	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	9 600	50.0 ug/L	1:1	
Laboratory ID	18993002		Sar	npled	08/11/09			
Sample ID	MW-2		Re	ceived	08/13/09			
Matrix	Water		Rej	ported	08/27/09			
8015B TPH G Parameter	as	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
\mathbf{TPHgas}^{1}		8015B TPHgas	08/14/09	08/14/09	9 610	50 ug/L	1:1	
Surrogates		Result	Recovery 1	Limits				
Trifluorotol	uene	18 ug/L .	90 %	(65 - 135	5)			

1 - Non-typical TPH pattern present in gas range.

Laboratory ID Sample ID	18993002 MW 2		Sai	mpled 0	8/11/09		
Matrix Water			Re	Reported 08/27/09			
8260B Oxygenates Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-b	outyl-ether	8260B BTEX/	FOC 08/18/09	08/18/09	3.8	0.50 ug/L	1:1
Benzene		8260B BTEX/	FOC 08/18/09	08/18/09	ND	1.0 ug/L	1:1
Toluene		8260B BTEX/	FOC 08/18/09	08/18/09	ND	1.0 ug/L	1:1
Ethylbenzene		8260B BTEX/	FOC 08/18/09	08/18/09	ND	1.0 ug/L	1:1
Xylene,Total		8260B BTEX/	FOC 08/18/09	08/18/09	ND	1.0 ug/L	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	54 ug/L	108 %	(65 - 135)

 Certification No. 1614
 Page 4 of 10

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



Test Certificate of Analysis

Client ID	Taber Consultants						
Workorder #	18993		We	orkorder ID (GMR_CityOfPa	aris	
Laboratory ID	18993003		Sa	npled (08/11/09		
Sample ID	MW-3		Re	ceived (08/13/09		
Matrix	Water		Re	ported (08/27/09		
8015B Stoddan Parameter	rd Solvent	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	1000	50.0 ug/L	1:1
Laboratory ID	18993003		Sa	npled (08/11/09		
Sample ID	MW-3		Re	ceived (08/13/09		
Matrix	Water		Re	ported (08/27/09		
8015B TPH G Parameter	as	Method	Prep Date	Analyzed	Result	RL Units	Dilution
\mathbf{TPHgas}^{1}		8015B TPHgas	8 08/14/09	08/14/09	2200	50 ug/L	1:1
Surrogates		Result	Recovery	Limits			
Trifluorotol	uene	20 ug/L	100 %	(65 - 135))		

1 - Non-typical TPH pattern present in gas range.

Laboratory ID	18993003		Sai	npled 0	8/11/09		
Sample ID	MW-3		Re	ceived 0	8/13/09		
Matrix	latrix Water		Re	Reported 08/27/09			
8260B Oxygenates Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-h	butyl-ether	8260B BTEX/FOO	2 08/18/09	08/18/09	7.3	5.0 ug/L	1:10
Benzene		8260B BTEX/FOO	08/18/09	08/18/09	ND	10 ug/L	1:10
Toluene		8260B BTEX/FOO	08/18/09	08/18/09	ND	10 ug/L	1:10
Ethylbenzene		8260B BTEX/FOO	08/18/09	08/18/09	ND	10 ug/L	1:10
Xylene,Total		8260B BTEX/FOO	2 08/18/09	08/18/09	ND	10 ug/L	1:10

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	55 ug/L	110 %	(65 - 135)



Test Certificate of Analysis

Client ID Workorder #	Taber Consultants 18993			Workorder I	D GMR_CityOf	Paris	
Laboratory ID Sample ID Matrix 2015P Stodday	18993004 W-IND Water			Sampled Received Reported	08/11/09 08/13/09 08/27/09		
Parameter	lu Solvent	Method	Prep D	ate Analyzed	a Result	RL Units	Dilution
Stoddard Solv	vent	8015B TEPH	08/17	/09 08/26/	09 ND	50.0 ug/L	1:1
Laboratory ID Sample ID Matrix	18993004 W-IND Water			Sampled Received Reported	08/11/09 08/13/09 08/27/09		
8015B TPH Ga Parameter	as	Method	Prep D	ate Analyzed	l Result	RL Units	Dilution
TPHgas		8015B TPHga	as 08/14	/09 08/14/	09 ND	50 ug/L	1:1
Surrogates Trifluorotol	uene	Result 20 ug/L	Recovery 100 %	Limits (65 – 13	35)		
Laboratory ID Sample ID Matrix	18993004 W-IND Water			Sampled Received Reported	08/11/09 08/13/09 08/27/09		
8260B Oxygen Parameter	ates	Method	Prep D	ate Analyzed	l Result	RL Units	Dilution
Methyl-tert- Benzene Toluene Ethylbenzene Xylene,Total	butyl-ether	8260B BTEX/ 8260B BTEX/ 8260B BTEX/ 8260B BTEX/ 8260B BTEX/	<pre>/FOC 08/18 /FOC 08/18 /FOC 08/18 /FOC 08/18 /FOC 08/18</pre>	/09 08/18/ /09 08/18/ /09 08/18/ /09 08/18/ /09 08/18/	09 ND 09 ND 09 ND 09 ND 09 ND	0.50 ug/L 1.0 ug/L 1.0 ug/L 1.0 ug/L 1.0 ug/L	1:1 1:1 1:1 1:1 1:1
Surrogates		Result	Recovery	Limits			
1,2-Dichloro	ethane-d4	55 ug/L	110 %	(65 - 13	35)		

 Certification No. 1614
 Page 6 of 10

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



Environme	ntal Laboratorie	S	Method Blank	Report			
Client ID Laboratory ID	Taber Consultants 91707		Sample IDMB for HBN 3MatrixWater		71750 [VMXV/310	56]	
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-M	outyl-ether	8260B BI	TEX/FOC08/18/09	08/18/09	ND	0.50 ug/L	1:1
Benzene		8260B BI	TEX/FOC08/18/09	08/18/09	ND	1.0 ug/L	1:1
Toluene		8260B BI	TEX/FOC08/18/09	08/18/09	ND	1.0 ug/L	1:1
Ethylbenzene		8260B BI	TEX/FOC08/18/09	08/18/09	ND	1.0 ug/L	1:1
Xylene,Total		8260B BI	TEX/FOC08/18/09	08/18/09	ND	1.0 ug/L	1:1
Surrogates		Result	Recovery	Limits			
1,2-Dichloroe	ethane-d4	56 ug/	′L 112 %	(65 - 1	35)		
			Lab Control Sam	ple Report			
Client ID Laboratory ID	Taber Consultants 91708			Sample ID Matrix	LCS for HBN 371750 [VMXV/3166] Water		66]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-M	outyl-ether	8260B BI	TEX/FOC08/18/09	08/18/09	50	0.50 ug/L	1:1
Benzene		8260B BI	TEX/FOC08/18/09	08/18/09	44	1.0 ug/L	1:1
Toluene		8260B BI	TEX/FOC08/18/09	08/18/09	42	1.0 ug/L	1:1
Ethylbenzene		8260B BI	TEX/FOC08/18/09	08/18/09	50	1.0 ug/L	1:1
Xylene,Total		8260B BI	TEX/FOC08/18/09	08/18/09	147	1.0 ug/L	1:1
		I	Lab Control Sample	Duplicate Repo	ort		
Client ID Laboratory ID	Taber Consultants 91709			Sample ID Matrix	LCSD for HBN Water	371750 [VMXV/:	3166
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-	outyl-ether	8260B BI	TEX/FOC08/18/09	08/18/09	51	0.50 ug/L	1:1
Benzene		8260B BI	TEX/FOC08/18/09	08/18/09	44	1.0 ug/L	1:1
Toluene		8260B BI	TEX/FOC08/18/09	08/18/09	38	1.0 ug/L	1:1
Ethylbenzene		8260B BI	TEX/FOC08/18/09	08/18/09	46	1.0 ug/L	1:1
Xylene,Total		8260B BI	TEX/FOC08/18/09	08/18/09	133	1.0 ug/L	1:1
			Matrix Spike l	Report			
Client ID Laboratory ID	Taber Consultants 91710			Sample ID Matrix	MS for HBN 3' Water	71750 [VMXV/316	56]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-M	outyl-ether	8260B BI	TEX/FOC08/18/09	08/18/09	50	0.50 ug/L	1:1

 Certification No. 1614
 Page 7 of 10

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



LINIOIIIIEI	ital Laboratorie	5	Matrix Spike	Report			
Client ID Laboratory ID	Taber Consultants 91710			Sample ID Matrix	MS for HBN 371750 [VMXV/3166] Water		56]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
(continued)							
Benzene		8260B BTEX/FO	DC08/18/09	08/18/09	44	1.0 ug/L	1:1
Toluene		8260B BTEX/FO	DC08/18/09	08/18/09	40	1.0 ug/L	1:1
Ethylbenzene		8260B BTEX/FO	DC08/18/09	08/18/09	49	1.0 ug/L	1:1
Xylene,Total		8260B BTEX/FC	DC08/18/09	08/18/09	144	1.0 ug/L	1:1
		Matr	ix Spike Dup	licate Report			
Client ID Laboratory ID	Taber Consultants 91711			Sample ID Matrix	MSD for HBN 371750 [VMXV/3166] Water		
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether		8260B BTEX/FO	DC08/18/09	08/18/09	57	0.50 ug/L	1:1
Benzene		8260B BTEX/FO	DC08/18/09	08/18/09	47	1.0 ug/L	1:1
Toluene		8260B BTEX/FO	DC08/18/09	08/18/09	42	1.0 ug/L	1:1
Ethylbenzene		8260B BTEX/FO	DC08/18/09	08/18/09	49	1.0 ug/L	1:1
Xylene,Total		8260B BTEX/FC	DC08/18/09	08/18/09	145	1.0 ug/L	1:1
		I	Method Blank	. Report			
Client ID Laboratory ID	Taber Consultants 91712			Sample ID Matrix	MB for HBN 3 Water	71753 [VGXV/30]	[8]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	ND	50 ug/L	1:1
Surrogates Trifluorotoluene		Result 21 ug/L	Recovery 105 %	7 Limits (65 - 1	35)		
		Lal	b Control San	nple Report			
Client ID Laboratory ID	Taber Consultants 91713			Sample ID Matrix	LCS for HBN 3 Water	371753 [VGXV/30	18]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	938	50 ug/L	1:1

 Certification No. 1614
 Page 8 of 10

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



LINIONINE		Lab Co	ntrol Sample	Duplicate Repo	ort		
Client ID Laboratory ID	Taber Consultants 91714			Sample ID Matrix	LCSD for HBN Water	371753 [VGXV/3	8018
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	887	50 ug/L	1:1
Client ID Laboratory ID	Taber Consultants 91715	Ν	Aatrix Spike I	Report Sample ID Matrix	MS for HBN 3' Water	71753 [VGXV/301	8]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	970	50 ug/L	1:1
		Matr	ix Spike Dup	licate Report			
Client ID Laboratory ID	Taber Consultants 91716			Sample ID Matrix	MSD for HBN 371753 [VGXV/3018] Water		
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas		8015B TPHgas	08/14/09	08/14/09	903	50 ug/L	1:1
		Ν	Aethod Blank	Report			
Client ID Laboratory ID	Taber Consultants 91740			Sample ID Matrix	MB for HBN 3 Water	71956 [SGXV/260	1]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	ND	50.0 ug/L	1:1
		Lat	o Control San	nple Report			
Client ID Laboratory ID	Taber Consultants 91741			Sample ID Matrix	LCS for HBN 3 Water	371956 [SGXV/260)1]
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	900	50.0 ug/L	1:1
		Lab Co	ntrol Sample	Duplicate Repo	ort		
Chent ID Laboratory ID	Taber Consultants91742			Sample ID Matrix	LCSD for HBN Water	13/1956 [SGXV/2	601
Parameter		Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Sol	vent	8015B TEPH	08/17/09	08/26/09	1000	50.0 ug/L	1:1

 Certification No. 1614
 Page 9 of 10

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689



QC SUMMARY

Client ID	Taber Consultants														
QC Batch	VMX 3206	Samples Matrix Spike [91710]													
Matrix	Water			Matrix S	pike Duplicate	e [91711]									
		Spike	Spike Dup	Recovery		RPD									
Parameter		%Recovery	%Recovery	Limits	RPD	Limits									
Methyl-tert-	butyl-ether	100	114	(65-135)	13	(20 MAX)									
Benzene		88	94	(65-135)	6.6	(20 MAX)									
Toluene		80	84	(65-135)	4.9	(20 MAX)									
Ethylbenzene		98	98	(65-135)	00	(20 MAX)									
Xylene,Total		96	97	(65-135)	1.0	(20 MAX)									
Client ID	Taber Consultants		Origin	al 1898600	1										
QC Batch	VGX 3138	Samples Matrix Spike [91715]													
Matrix	Water	Matrix Spike Duplicate [91716]													
		Spike	Spike Dup	Recovery		RPD									
Parameter		%Recovery	%Recovery	Limits	RPD	Limits									
TPHgas		97	90	(65-135)	7.5	(20 MAX)									
Client ID	Taber Consultants	Samples Lab Control Sample [91708]													
QC Batch	VMX 3206	Lab Control Sample Duplicate [91709]													
Matrix	Water														
		Check	Check Dup	Recovery		RPD									
Parameter		%Recovery	%Recovery	Limits	RPD	Limits									
Methyl-tert-	butyl-ether	100	102	(65-135)	2.0	(20 MAX)									
Benzene		88	88	(65-135)	00	(20 MAX)									
Toluene		84	76	(65-135)	10	(20 MAX)									
Ethylbenzene		100	92	(65-135)	8.3	(20 MAX)									
Xylene,Total		98	89	(65-135)	9.6	(20 MAX)									
Client ID	Taber Consultants	Samples Lab Control Sample [91713]													
QC Batch Matrix	VGX 3138 Water	Lab Control Sample Duplicate [91714]													
		Check	Check Dup	Recovery		RPD									
Parameter		%Recoverv	%Recoverv	Limits	RPD	Limits									
TPHgas		94	89	(65-135)	5.5	(20 MAX)									
Client ID	Taber Consultants		Samples Lab Control Sample [91741]												
QC Batch Matrix	SGX 2631 Water	Lab Control Sample Duplicate [91742]													
1114111	vi alci	Check	Check Dup	Recovery		RPD									
Parameter		%Recovery	%Recovery	Limits	RPD	Limits									
Chaddand Cal	vont	90	100	(65 - 135)	11	(20 MAX)									

 Certification No. 1614
 Page 10 of 10

 3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689

Sparger Technology.rc.				3738 Bradview Drive Sacramento, CA 95827 Lab: 916.369.7688 COC # / Lab No					18993 No Page 1 of 1																	
Project Contact / PDF To):			Fax:	916.3	09.76	89 aport?		1.1.1	_			_			_					_	_	-				
Tom Ballard (to email address's			Gainoi		DERE	epontr		1	es		No		(Chai	in-c	f-C	ustoc	ly Re	ecord	a	nd	Ana	alys	sis R	equ	est
Company / Address:	1		Sampl	ling C	ompai	ny Loo	Co	de:				-								-					TA	-
Taber Consultants: 3911 West	Capitol Av		WRM	C	3	8 B											Analy	ISIS R	eque	SI					IA	
West Sacramento, CA 95691			Global	I ID:	TO	6001	0037	79									m								-	
Phone #	ax#		Deliver all files to:											260E	_							121	15			
916-371-1690 9	16-371-726	5	inbox@TaberConsultants.com											A 82	50B							121				
Project # P	P.O. # 3/	A	please email a copy to:											ц.	82		0									
51074			SNess@TaberConsultants.com											DB	EPA	=	15N			22		24 1	ir			
Project Name:			Sampl	ler Sig	gnatur	e:		-	-	>				â		0B)	,2 E	st (15N	A 80			uen.			
GMR_CityOfParis			Olin fig								260	~	826	es.		80	EP/	10)	~	Sol						
Project Address Sampling			Container Preservative Matrix								A 8	015	PA	OCA	L.	EP		160	12	Ind	us	48 h	nr			
3514 Adeline St.	_				mb									EF	A 8	S (F	.2	Dic	e	10	EP/	(S	dda	Jra	1	
Sample ID Field Point Name MW-1 MW-1 MW-2 MW-2 MW-3 MW-3 W-IND W-IND	Date 8/11/09 8/11/09	Time 12:45 10:55 12:05 10:10	K K K 40 ml VO/ Sleeve	Poly	Tedlar		A A A A A A A A A A A A A A A A A A A	XXX None		XXXX Water	Soil			× × × MTBE\BTE	× × × TPH Gas (I	5 Oxygena	Lead Scav	Volatile Org	TPH as Die	TPH as Mo	Total Lead	W.E.T. Lea	X X X X TPH-SS St	X X Chromat	72 t 2 1 w x x x x	
Relinquished by:				Time 14/2 Time	Rec Rec	Received by: Received by: Received by:								Remarks: please save file(s), PDF's, EDF & XLS name as: sample date year_month_day_project name EXAMPLE: 2009_08_10_GMR_CityOfParis_18495 Bill to: ASandino@TaberConsultants.com For Lab Use Only: Sample Receipt Temp "C Initials Date Time									e_ W	0#		