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Alameda County
Environmental Health

FOURTH QUARTER 2008 QUARTERLY MONITORING REPORT

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

USTCF Claim #002192

Prepared For:

Ms. Paulette Satterley
14601 Guadalupe Drive
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Prepared By:

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March 14, 2009



www.westernresourcemgmt.com

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1.0 INTRODUCTION

1.1 Project Description

On behalf of the responsible party, Western Resource Management (WRM) has prepared this *Fourth Quarter 2008 Quarterly Monitoring Report* 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 SRWQCB and ACHSA directive letters.

1.2 Site Location and Description

The former City of Paris Cleaners is a former dry cleaning, laundry and dyeing operation currently owned by Mrs. Debra Runyon and located at 3516 Adeline St., Oakland, CA. The plant was in operation for over 40 years until the 1960's, but cleaning materials were not completely removed from the site until 1990. The site buildings remained vacant for a number of years following the closure of the dry cleaning operation and then were converted to residential and light commercial use.

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

1.3 Site History and Previous Subsurface Investigations

On October 4, 1990, three underground storage tanks (1 750-gallon and 2 1,000-gallon) were excavated and removed from the site by Semco Company of San Mateo. These UST were formerly used to store Stoddard Solvent for use in the dry cleaning operations at the site. 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 restrictions posed by site structures, sidewalks, etc., the full extent of the impacted soil could not be defined.

W.A. Craig was contracted 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 the course of the overexcavation activities, an additional 250-gallon UST containing Stoddard Solvent was discovered. This UST was removed and disposed by W. A. Craig on October 31, 1991. An additional 15 cubic yards was overexcavated by W.A. Craig on January 27, 1992 and added to the on-site bioremediation cell.

W. A. Craig backfilled the tank pit with bioremediated soil and clean fill on April 21, 1992.

UES supervised the installation of three 30-foot ground water monitoring wells on-site on October 29 and 30, 1992. The wells were installed by Soils Exploration Services of Vacaville, California. Initial groundwater elevations in the wells ranged from 13 to 14 feet below grade. Groundwater samples from all three wells contained Total Petroleum Hydrocarbons, as

Fourth Quarter 2008, Quarterly Monitoring Report

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

Stoddard Solvent (TPH-SS), ranging from 630 parts per billion (ppb) in MW-2 to 11,000 ppb in MW-3. All other tested constituents were below laboratory detection limits.

On March 19, 1998, Dugan Associates of San Jose, California 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). Three soil samples and one grab groundwater sample were collected from each soil boring. The groundwater sample from the on-site soil boring (EB-1) reported 270,000 ppb TPH-SS with one off-site groundwater sample (EB-5) reporting 780 ppb TPH-SS. All the other groundwater samples were below laboratory detection limits for all tested constituents. 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.

By December 1999, the chemical suite of analytes that were monitored grew to include 1,2-Dichlorobenzene (DCB), 1,1-Dichloroethane, 2-methylnaphthalene and naphthalene. All these constituents were present in one or more wells. The groundwater gradient was also defined as trending to the north at 0.003 ft./ft.

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 µg/L of TPH-SS in the sample from MW-1, no BTEX above laboratory detection limits, up to 31 µg/L MTBE in the sample from MW-3, 0.61 µg/L DCB in the sample from MW-1, and 130 µg/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.

WRM assumed environmental consulting responsibilities for the site commencing in June 2007.

2.0 GROUNDWATER MONITORING, SAMPLING, AND ANALYSIS

On December 18, 2008, to comply with quarterly groundwater monitoring requirements, WRM gauged and sampled on-site groundwater monitoring wells MW-1 through MW-3. An on-site industrial well (W-IND) was also monitored this quarter.

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 10.58 feet below ground surface (bgs) in MW-2 to 12.53 in MW-3. Groundwater surface elevations ranged from a high of 6.73 feet above mean sea level (msl) in MW-1 and MW-2 to a low of 4.91 feet above msl at MW-3. The direction of groundwater flow is to the southeast at a gradient of 0.125 feet per foot. A groundwater surface contour map is included as Figure 3 and groundwater elevation data are summarized in Table 1. 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) by EPA Method 8015Cm, Total Petroleum Hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene and xylenes (BTEX), and oxygenate methyl tertiary butyl ether (MTBE) by EPA Method 8260B.

Maximum concentrations of dissolved TPH-SS and TPH-G were detected in the groundwater samples collected from MW-1, with concentrations of 9,900 and 2,700 µg/l, respectively. Groundwater samples collected from MW-2, and MW-3 reported lower TPH-SS concentrations of 300 and 5,900 µg/l, respectively. Groundwater samples collected from MW-3 also reported lower TPH-G concentrations of 610 µg/l. Dissolved MtBE was detected in groundwater samples collected from MW-2, MW-3, and W-IND at 7.3, 20, and 0.7 µg/l, respectively. Dissolved MtBE and BTEX were below minimum laboratory detection limits in MW-1, and BTEX were below minimum laboratory detection limits in all wells.

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 Table 2 and the laboratory reports, notes, and comments are included in Appendix B.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater gradients at the site fluctuate from north-northeast to southeast, with northeast being the most typical groundwater flow direction. The southeast flow direction this quarter is within the typical range for this site. The gradient of 0.125 is anomalously steep, especially considering the Bay Muds underlying the site and the proximity to San Francisco Bay, which would indicate a much flatter gradient.

Between August 12, 2008 and December 18, 2008, dissolved TPH-SS concentrations increased by 5,900 µg/l in MW-1 and by 3,100 µg/l in MW-3. Dissolved TPH-SS concentrations decreased by 1,900 µg/l in MW-2 and remained below minimum laboratory detection limits in W-IND. Dissolved TPH-G concentrations decreased by 9,300 µg/l in MW-1 and by 3,690 µg/l in MW-3, and decreased by at least 300 µg/l to below minimum laboratory detection limits in MW-2. Dissolved TPH-G remained below laboratory detection limits in W-IND. Dissolved MTBE showed slight increases in the samples collected from MW-2, MW-3, and W-IND this quarter; from non-detect in MW-2 and W-IND to 7.3 and 0.7 µg/l, respectively, and from 6.5 to 20 µg/l in MW-3. BTEX concentrations were non-detect in all groundwater samples this quarter.

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.

The anomalously steep gradient at the site indicates there may be issues with the wells resulting from the 2002 well redevelopment. WRM recommends re-surveying the wells to determine if the wells may have been disturbed during the well redevelopment process. Additional steps may include well swabbing and an additional redevelopment to clear out any sediment blockages.

WRM further recommends the use of the Hydrasleeve no-purge sampling method at the site to reduce due to concerns with dealing with and storing purge water at the site where young children live. Detailed documentation on the Hydrasleeve sampling protocols has been provided under separate cover.

First Quarter sampling is scheduled for March 2009.

4.0 REPORT DISTRIBUTION

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

Ms. Donna Drogos
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

5.0 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,

Western Resource Management, Inc.



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



FIGURES



FIGURE 1
SITE LOCATION MAP
 FORMER CITY OF PARIS CLEANERS
 3516 ADELINE STREET
 OAKLAND, CA



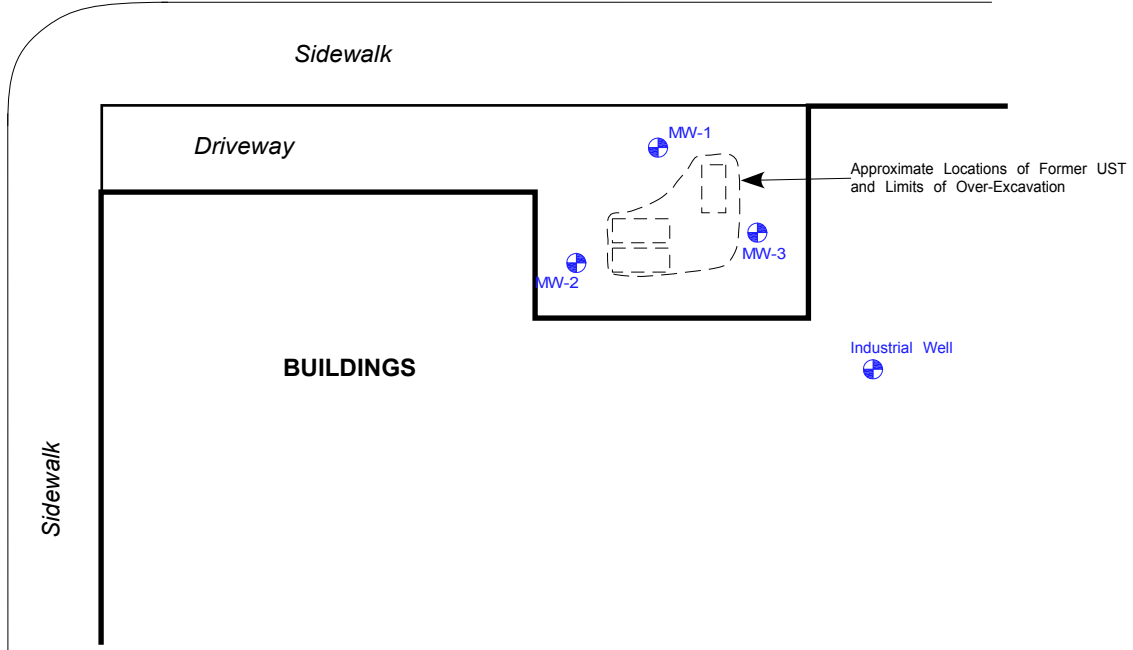
Source:
 USGS West Oakland
 Quadrangle Topographic Map
 Report, 7.5 Minute Series
 (topographic), dated 1993

PROJECT NO. City of Paris	DRAWN BY MML 03/07/08
FILE NO. Site Map	PREPARED BY TEB
REVISION NO. 2	REVIEWED BY



35TH STREET

ADELINE STREET



Approximate Locations of Former UST and Limits of Over-Excavation

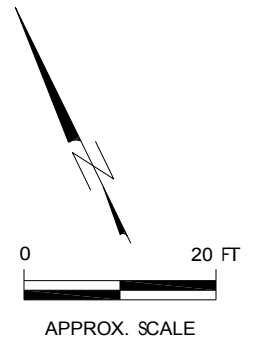
Industrial Well

BUILDINGS


Driveway

Sidewalk

Sidewalk



LEGEND

 MW-1 GROUNDWATER MONITORING WELL

Notes:
Industrial well measured in 1995.
Base Map Source: BT Associates (1995) for approximate locations of wells.

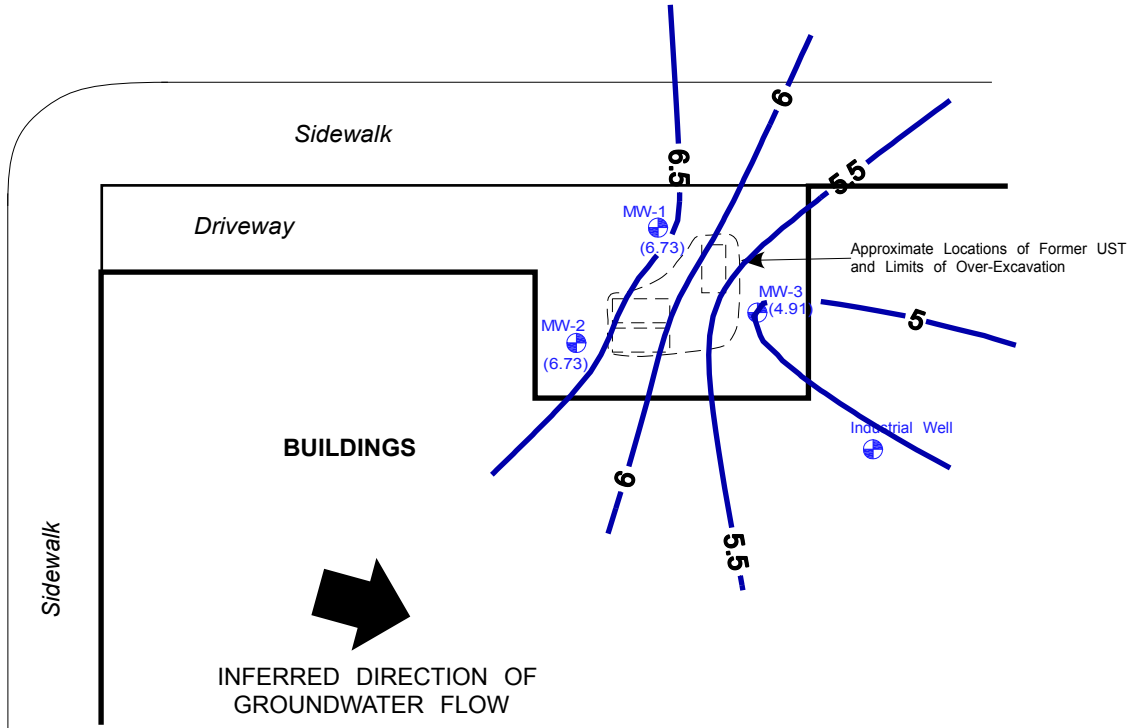
FIGURE 2
 SITE MAP
 5/23/08
 FORMER CITY OF PARIS CLEANERS
 3516 ADELINE STREET
 OAKLAND, CA

PROJECT NO. 051074	DRAWN BY T.B. 03/06/08
FILE NO. City of Paris	PREPARED BY PJP
REVISION NO. 3	REVIEWED BY



35TH STREET

ADELINE STREET

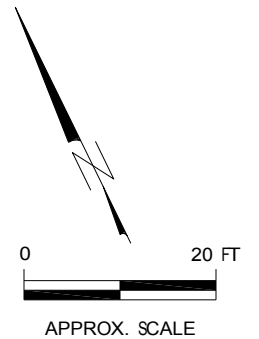


Approximate Locations of Former UST and Limits of Over-Excavation

Industrial Well

BUILDINGS

INFERRED DIRECTION OF GROUNDWATER FLOW



LEGEND




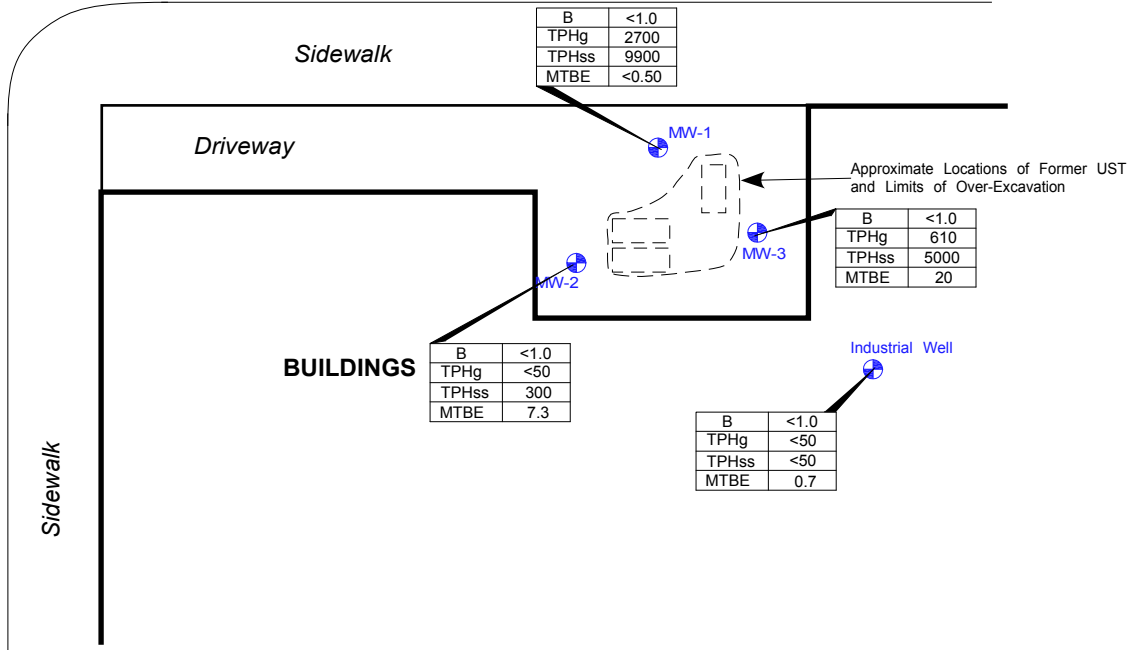
-  MW-1 GROUNDWATER MONITORING WELL
-  4.2 WATER TABLE CONTOUR IN FEET RELATIVE TO MSL

FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
 12/ 18/ 08
 FORMER CITY OF PARIS CLEANERS
 3516 ADELINE STREET
 OAKLAND, CA

PROJECT NO. 051074	DRAWN BY T.B. 03/06/08	
FILE NO. City of Paris	PREPARED BY PJP	
REVISION NO. 1	REVIEWED BY	

35TH STREET

ADELINE STREET



LEGEND

MW-1 GROUNDWATER MONITORING WELL

B	<1.0	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/ L)
TPHg	250	
TPHss	300	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN ug/ L
MTBE	<0.50	TOTAL PETROLEUM HYDROCARBONS AS STODDARD SOLVENT IN ug/ L
		METHYL TERTIARY BUTYL ETHER IN ug/ L

Notes:
 Industrial well measured in 1995.
 Base Map Source: BT Associates (1995) for approximate locations of wells.

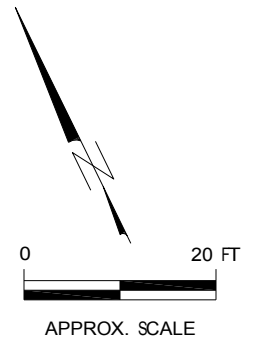


FIGURE 4
GROUNDWATER ANALYTICAL SUMMARY
 12/ 18/ 08
 FORMER CITY OF PARIS CLEANERS
 3516 ADELINE STREET
 OAKLAND, CA

PROJECT NO. 051074	DRAWN BY T.B. 03/06/08
FILE NO. City of Paris	PREPARED BY PJP
REVISION NO. 4	REVIEWED BY



TABLES

SOURCE	Reference Elevation		SOURCE	Reference Elevation		SOURCE	Reference Elevation	
MW-1 ○	17.44		MW-2 △	17.31		MW-3 ●	17.44	
Dates	Water Depth	Water Elev.	Dates	Water Depth	Water Elev.	Dates	Water Depth	Water Elev.
03/22/2002	8.97	8.47	03/22/2002	8.82	8.49	03/22/2002	10.97	6.47
04/15/2003	9.23	8.21	04/15/2003	8.52	8.79	04/15/2003	8.31	9.13
03/26/2004	10.32	7.12	03/26/2004	9.32	7.99	03/26/2004	8.61	8.83
09/30/2004	11.53	5.91	09/30/2004	11.62	5.69	09/30/2004	11.1	6.34
09/09/2005	13.63	3.81	09/09/2005	12.75	4.56	09/09/2005	13.75	3.69
11/30/2007	13.95	3.49	11/30/2007	11.06	6.25	11/30/2007	13.90	3.54
12/20/2007	11.51	5.93	12/20/2007	9.95	7.36	12/20/2007	10.79	6.65
05/23/2008	14.14	3.3	05/23/2008	12.46	4.85	05/23/2008	15.2	2.24
08/12/2008	13.78	3.66	08/12/2008	12.08	5.23	08/12/2008	14.14	3.3
12/18/2008	10.71	6.73	12/18/2008	10.58	6.73	12/18/2008	12.53	4.91

NOTES:

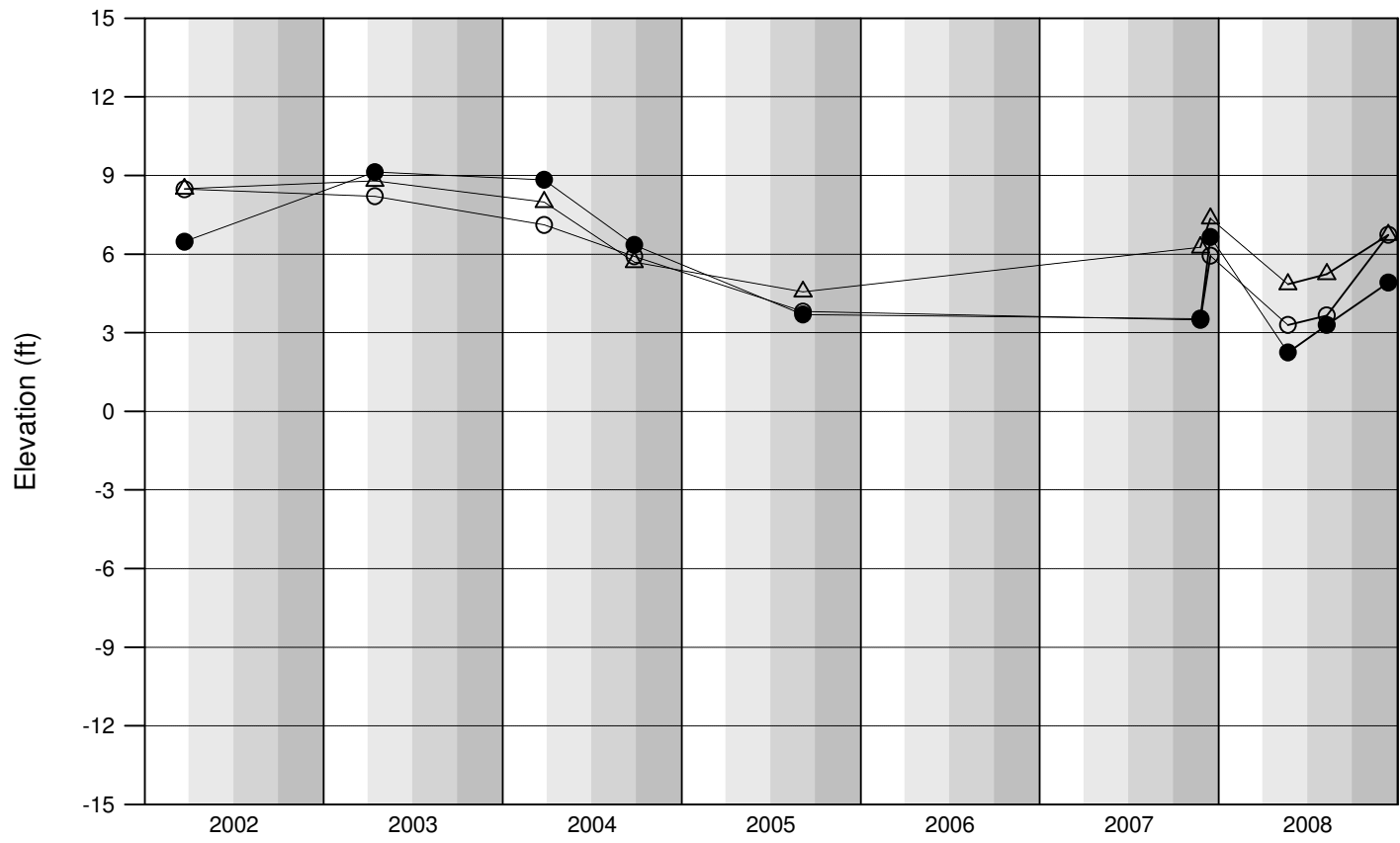


Table 1

Groundwater Elevation Data

Source Set 1 of 1

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

	TPH as Stoddard Solvent	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL:							
03/22/2002	11000	-	-	-	-	-	<5.0
04/15/2003	3900	-	<2.5	<2.5	<2.5	3	9
03/26/2004	30000	24000	<50	<50	<50	<50	<500
09/30/2004	3800	2600	<0.5	<0.5	<0.5	2.7	<5
09/09/2005	15000	11000	<5	<5	<5	15	<50
11/30/2007	-	-	-	-	-	-	-
12/20/2007	45000	110000	20	50	20	100	<5
05/23/2008	4200	<500	<1.0	<1.0	<1.0	20	<0.50
08/12/2008	4000	12000	<1.0	<1.0	<1.0	<1.0	<0.50
12/18/2008	9900	2700	<1.0	<1.0	<1.0	<1.0	<0.50

SOURCE: MW-1

Sampling Dates:
03/22/2002 - 12/18/2008

NOTES:

Table 2

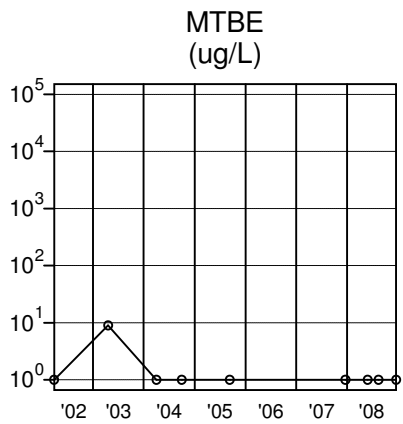
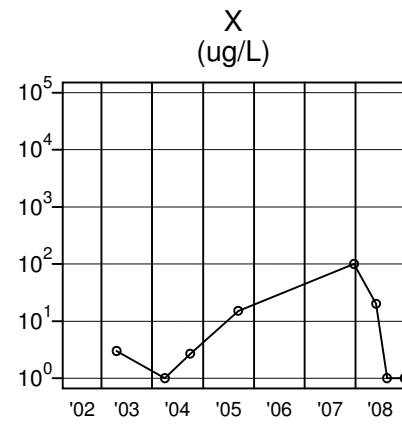
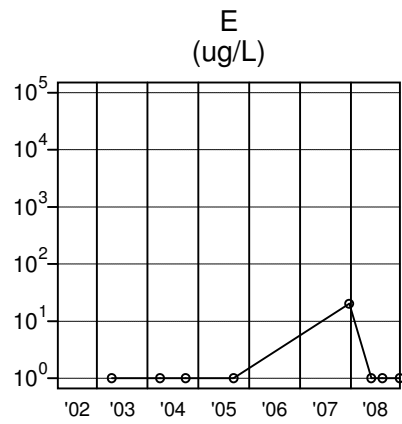
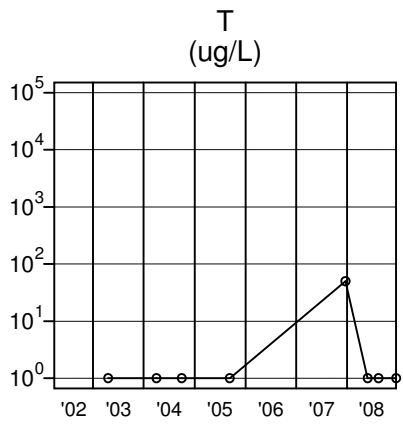
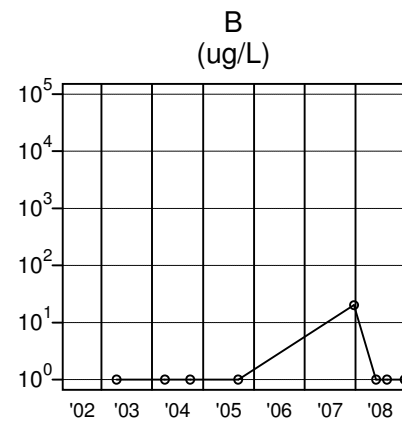
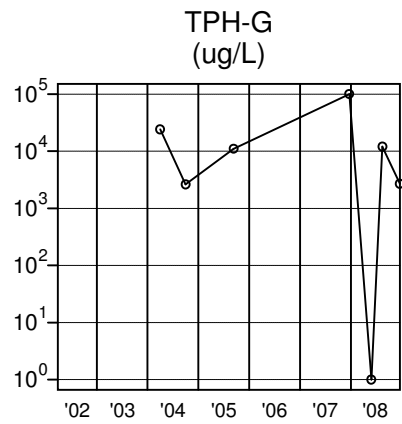
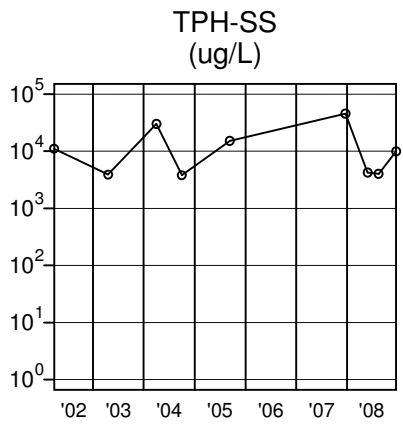
Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 1 of 4

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

SOURCE: MW-1

Sampling Dates:
03/22/2002 - 12/18/2008



LEGEND:

PARAMETER

○ = Date Sampled

◇ = MCL

Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 1 of 4, Graph

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

	TPH as Stoddard Solvent	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL:							
03/22/2002	170	13000	410	1000	210	1100	<5.0
04/15/2003	99	-	<0.5	<0.5	<0.5	0.76	10
03/26/2004	120	93	<0.5	<0.5	<0.5	0.76	5.4
09/30/2004	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
09/09/2005	120	98	<0.5	<0.5	<0.5	<0.5	<5
11/30/2007	-	-	-	-	-	-	-
12/20/2007	<50	3000	<1	1.6	<1	2.4	2.9
05/23/2008	300	1100	<1.0	<1.0	<1.0	<1.0	3.5
08/12/2008	2200	350	<1.0	<1.0	<1.0	<1.0	<0.50
12/18/2008	300	<50	<1.0	<1.0	<1.0	<1.0	7.3

SOURCE: MW-2

Sampling Dates:
03/22/2002 - 12/18/2008

NOTES:

Table 2

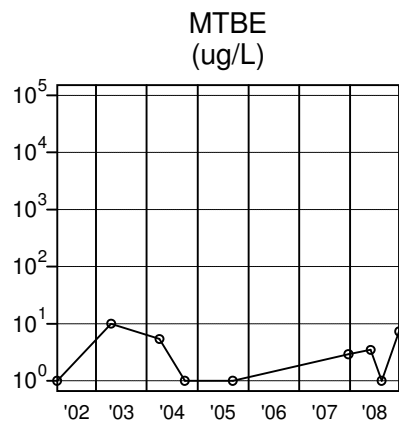
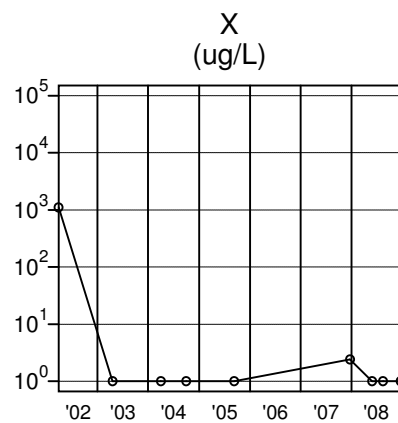
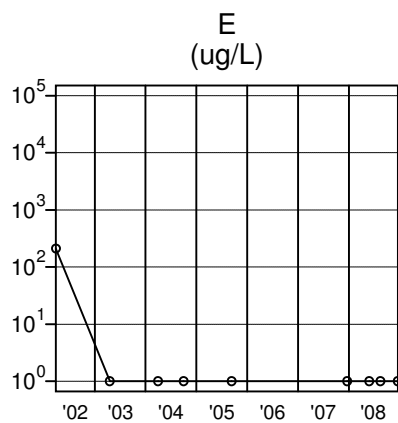
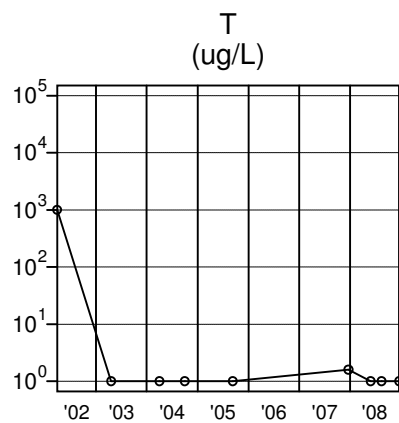
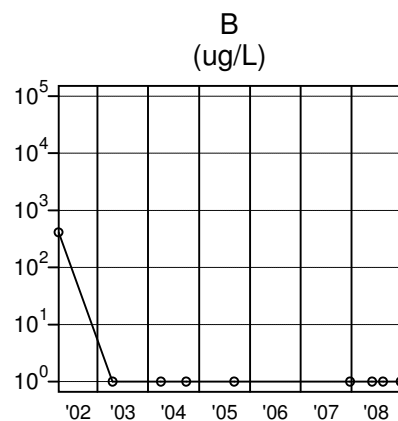
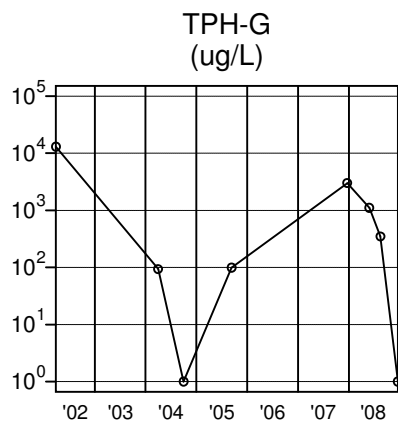
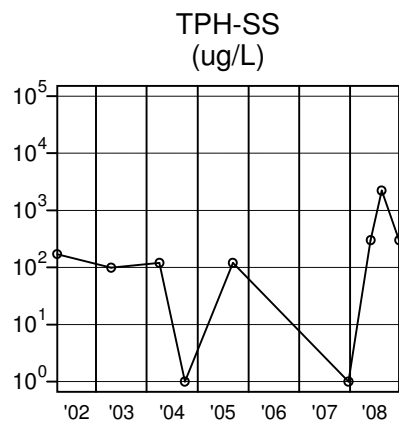
Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 2 of 4

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

SOURCE: MW-2

Sampling Dates:
03/22/2002 - 12/18/2008



LEGEND:

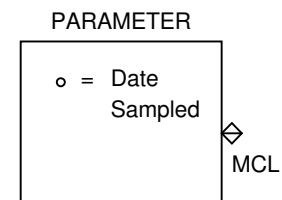


Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 2 of 4, Graph

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

	TPH as Stoddard Solvent	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL:							
03/22/2002	420	<50	<0.5	<0.5	<0.5	<0.5	31
04/15/2003	2700	-	<0.5	<0.5	<0.5	<0.5	40
03/26/2004	2700	1900	<1.7	<1.7	<1.7	4.3	<17
09/30/2004	3900	2600	<0.5	<0.5	<0.5	3.2	<10
09/09/2005	4000	2600	<0.5	<0.5	0.57	2.7	12
11/30/2007	-	-	-	-	-	-	-
12/20/2007	18000	12000	<1	1.6	1.1	2.4	9.2
05/23/2008	900	3000	<1.0	<1.0	<1.0	<1.0	9.1
08/12/2008	1900	4300	<1.0	<1.0	<1.0	<1.0	6.5
12/18/2008	5000	610	<1.0	1.0	<1.0	<1.0	20

SOURCE: MW-3

Sampling Dates:
03/22/2002 - 12/18/2008

NOTES:

Table 2

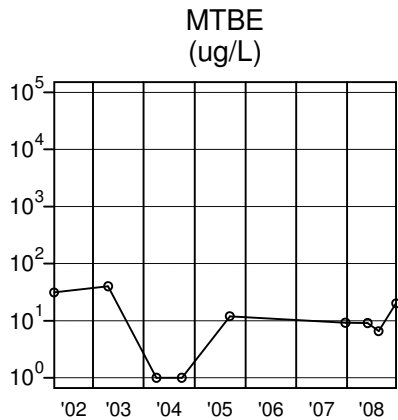
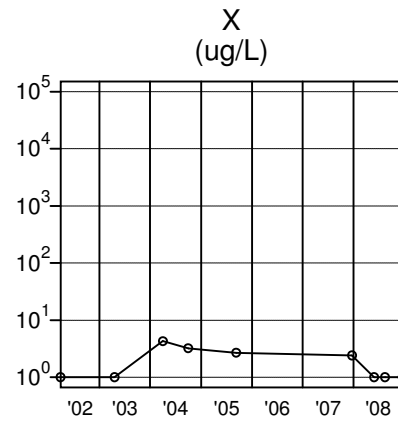
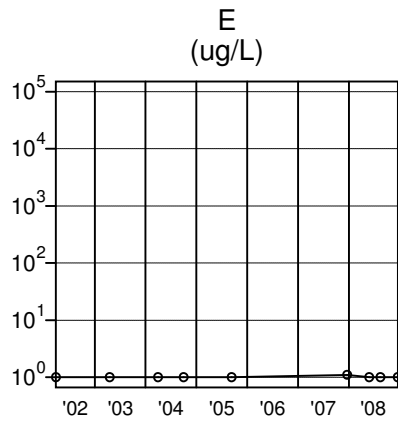
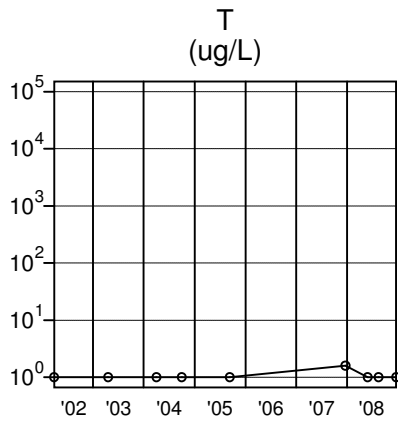
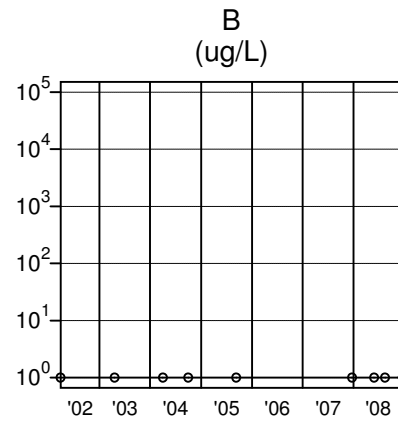
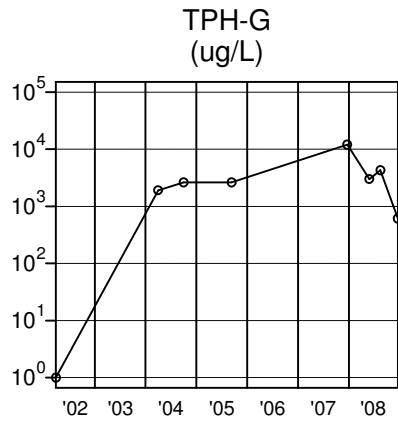
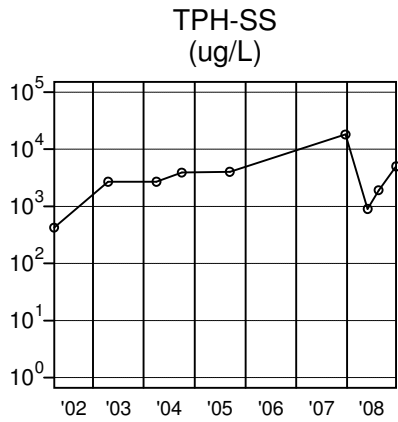
Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 3 of 4

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

SOURCE: MW-3

Sampling Dates:
03/22/2002 - 12/18/2008



LEGEND:

PARAMETER

○ = Date Sampled

◇ = MCL

Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 3 of 4, Graph

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

	TPH as Stoddard Solvent	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL:							
03/22/2002	<50	190	<0.5	<0.5	<0.5	0.80	<5.0
04/15/2003	-	-	-	-	-	-	-
03/26/2004	500	200	<0.5	<0.5	<0.5	<0.5	<5
09/30/2004	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
09/09/2005	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
11/30/2007	-	-	-	-	-	-	-
12/20/2007	<50	500	<1	1	<1	2.2	<.50
05/23/2008	300	250	<1.0	3.7	<1.0	2.4	<0.50
08/12/2008	<50.0	<50.0	<1.0	<1.0	<1.0	<1.0	<0.50
12/18/2008	<50	<50	<1.0	<1.0	<1.0	<1.0	0.7

SOURCE: W-IND

Sampling Dates:
03/22/2002 - 12/18/2008

NOTES:

Table 2

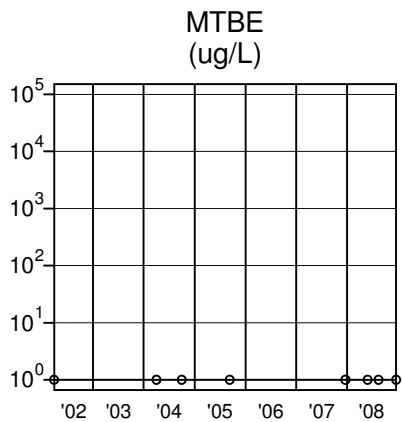
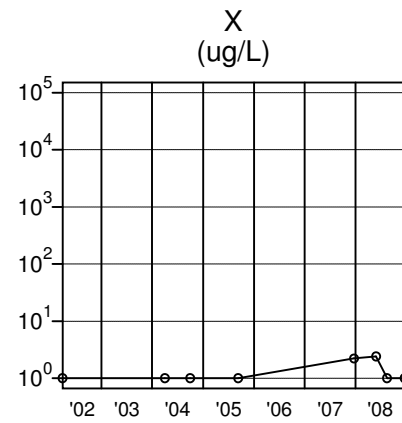
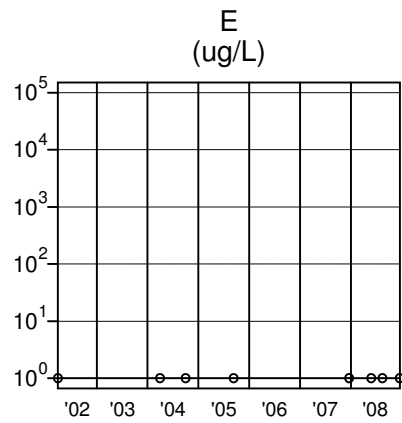
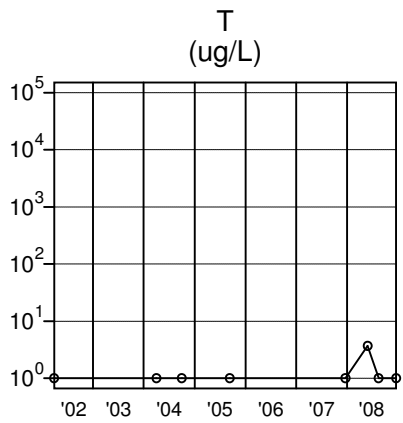
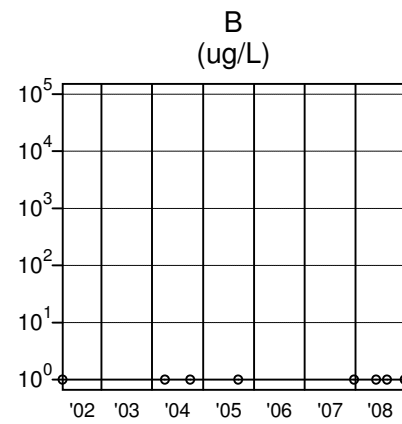
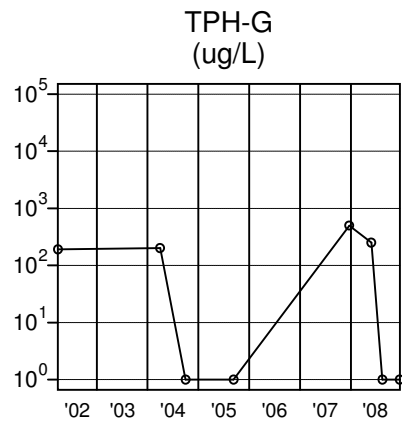
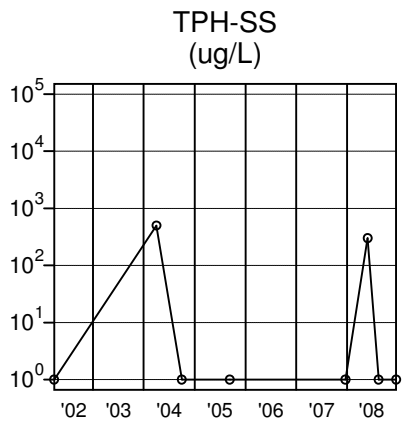
Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 4 of 4

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

SOURCE: W-IND

Sampling Dates:
03/22/2002 - 12/18/2008



LEGEND:

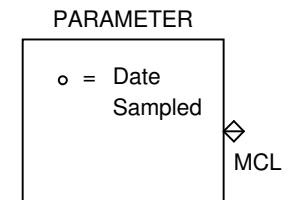


Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 4 of 4, Graph

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

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

APPENDIX A
FIELD DATA SHEETS

Client: City of Paris
 Site: _____

Sampling Date: 12/18/08
 Project No.: _____
 Well Designation: MW-1

Is setup of traffic control devices required? No Yes time: _____ hours
 Is there standing water in the well box? No Yes Above TOC Below TOC
 Is top of casing cut level? No Yes If no, see remarks
 Is well cap sealed and locked? no lock - over. No Yes If no, see remarks

Height of well casing riser (in inches): _____
 Well cover type: 8" or 12" UV 12" EMCO 8" or 12" BK 8" Christy
 12" Christy 8" M&D 12" M&D 12" DWP
 12" CNI 36" CNI 12" Pomeco Other: _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: 2" disposable bailer Submersible pump
 2" PVC bailer Dedicated bailer
 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer Disposable Tubing

Well Diameter: 2" 4" 6" 8"
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement Recharge Measurement
 Time: 10:45 Time: 13:27 Calculated purge: 7.95
 Depth of well: 27.28 Depth of water: 11.65 Actual purge: 8.0
 Depth of water: 10.71

Start purge: 13:18 Sampling Time: 13:30

Time	Temperature	E.C.	pH	Turbidity	Volume
13:20	18.72	1001 $\mu\text{g}/\text{cm}$	9.02	—	2.5
13:24	19.07	1034 $\mu\text{g}/\text{cm}$	8.19	—	5.0
13:24	20.98	1146 $\mu\text{g}/\text{cm}$	7.48	—	8.0

Sample appearance: _____ Lock: _____

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bold _____
 6" Locking Cap: _____ Pinned Allenhead (DWP) _____

Remarks: cloudy / silty / odor.
 Signature: _____

WESTERN RESOURCE MANAGEMENT

SAMPLING INFORMATION SHEET

Client: city of PARIS
Site: _____

Sampling Date: 12/18/08
Project No.: _____
Well Designation: MW-2

Is setup of traffic control devices required? No Yes time: _____ hours

Is there standing water in the well box? No Yes Above TOC Below TOC

Is top of casing cut level? No Yes If no, see remarks

Is well cap sealed and locked? No Yes If no, see remarks

Height of well casing riser (in inches): 1"

Well cover type: 8" or 12" UV 12" EMCO 8" or 12" BK 8" Christy

12" Christy 8" M&D 12" M&D 12" DWP

12" CNI 36" CNI 12" Pomeco Other: _____

General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: 2" disposable bailer Submersible pump

2" PVC bailer Dedicated bailer

4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer Disposable Tubing

Well Diameter: 2" 4" 6" 8"

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement Recharge Measurement

Time: 10:35 Time: _____ Calculated purge: 9.1

Depth of well: 29.50 Depth of water: 22.25 Actual purge: 9.0

Depth of water: 10.58

Start purge: 12:05 Sampling Time: 12:30

Time	Temperature	E.C.	pH	Turbidity	Volume
12:17	17.57	2127 ug/l	10.22	—	3.02
12:19	17.63	7160	9.06	—	6.04
12:21	17.92	1731	8.01	—	9.1

Sample appearance: _____ Lock: _____

Equipment replaced: (check all that apply) Note condition of replaced item(s)

2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____

4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bold _____

6" Locking Cap: _____ Pinned Allenhead (DWP) _____

Remarks: _____
Signature: _____

Client: City of Paris
 Site: _____

Sampling Date: 12/18/08
 Project No.: _____
 Well Designation: MW-3

Is setup of traffic control devices required? No Yes time: _____ hours
 Is there standing water in the well box? No Yes Above TOC Below TOC
 Is top of casing cut level? No Yes If no, see remarks
 Is well cap sealed and locked? no lock - v.v.c. No Yes If no, see remarks
 Height of well casing riser (in inches): _____
 Well cover type: 8" or 12" UV 12" EMCO 8" or 12" BK 8" Christy
 12" Christy 8" M&D 12" M&D 12" DWP
 12" CNI 36" CNI 12" Pomeco Other: _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: 2" disposable bailer Submersible pump
 2" PVC bailer Dedicated bailer
 4" PVC bailer Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer Disposable Tubing

Well Diameter: 2" 4" 6" 8"
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
 Initial Measurement Recharge Measurement
 Time: 10:40 Time: 12:56 Calculated purge: 8.25
 Depth of well: 29.70 Depth of water: 22.70 Actual purge: 8.5
 Depth of water: 12.53

Start purge: 12:45 Sampling Time: 13:00

Time	Temperature	E.C.	pH	Turbidity	Volume
12:50	17.39	1357 $\mu\text{m}/\text{cm}$	8.17	—	2.5
12:52	17.90	1348 $\mu\text{m}/\text{cm}$	7.91	—	5.5
12:54	17.85	1400 $\mu\text{m}/\text{cm}$	7.77	—	8.5

Sample appearance: Cloudy / (strip / mlk) Lock: _____

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bold _____
 6" Locking Cap: _____ Pinned Allenhead (DWP) _____

Remarks: clear / cloudy - slight odon
 Signature: _____

APPENDIX B
LABORATORY REPORTS

Tom Ballard
Western Resource Management
P.O. Box 8738
Citrus Heights, CA 95621

Client	Western Resource Management
Workorder	18739 GMR_CityOfParis
Received	12/19/08

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.



Ray James
Laboratory Director

Tom Ballard
Western Resource Management
P.O. Box 8738
Citrus Heights, CA 95621

Workorder 18739

Enclosed are the results from samples received on December 19, 2008.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
18739001	MW-1, Water	12/18/08	8015B TPHd 8015B TPHgas 8260B BTEX/FOC
18739002	MW-2, Water	12/18/08	8015B TPHd 8015B TPHgas 8260B BTEX/FOC
18739003	MW-3, Water	12/18/08	8015B TPHd 8015B TPHgas 8260B BTEX/FOC
18739004	W-IND, Water	12/18/08	8015B TPHd 8015B TPHgas 8260B BTEX/FOC

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18739

Workorder ID GMR_CityOfParis

Laboratory ID 18739001
Sample ID MW-1
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8015B TPH Diesel Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Solvent	8015B TPHd	12/21/08	01/08/09	9900	50.0 ug/L	1:1

Laboratory ID 18739001
Sample ID MW-1
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8015B TPH Gas Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas	8015B TPHgas	12/27/08	12/27/08	2700	50 ug/L	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	138 ug/L	690 %	(65 - 135)

Laboratory ID 18739001
Sample ID MW-1
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8260B Oxygenates Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC	12/27/08	12/27/08	ND	0.50 ug/L	1:1
Benzene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Toluene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/L	100 %	(65 - 135)

Laboratory ID 18739002
Sample ID MW-2
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8015B TPH Diesel Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Solvent	8015B TPHd	12/21/08	01/08/09	300	50.0 ug/L	1:1

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18739

Workorder ID GMR_CityOfParis

Laboratory ID 18739002
Sample ID MW-2
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

**8015B TPH Gas
Parameter**

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas	12/27/08	12/27/08	ND	50 ug/L	1:1

Surrogates

Trifluorotoluene Result 26 ug/L Recovery 130 % Limits (65 - 135)

Laboratory ID 18739002
Sample ID MW-2
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

**8260B Oxygenates
Parameter**

Method	Prep Date	Analyzed	Result	RL Units	Dilution	
8260B BTEX/FOC	12/27/08	12/27/08	7.3	0.50 ug/L	1:1	
Methyl-tert-butyl-ether						
Benzene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Toluene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1

Surrogates

1,2-Dichloroethane-d4 Result 48 ug/L Recovery 96 % Limits (65 - 135)

Laboratory ID 18739003
Sample ID MW-3
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

**8015B TPH Diesel
Parameter**

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHd	12/21/08	01/08/09	5000	50.0 ug/L	1:1

Laboratory ID 18739003
Sample ID MW-3
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

**8015B TPH Gas
Parameter**

Method	Prep Date	Analyzed	Result	RL Units	Dilution
8015B TPHgas ¹	12/27/08	12/27/08	610	50 ug/L	1:1

Surrogates

Trifluorotoluene Result 14 ug/L Recovery 70 % Limits (65 - 135)

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

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18739

Workorder ID GMR_CityOfParis

Laboratory ID 18739003
Sample ID MW-3
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8260B Oxygenates Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC	12/27/08	12/27/08	20	0.50 ug/L	1:1
Benzene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Toluene	8260B BTEX/FOC	12/27/08	12/27/08	1.0	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1

Surrogates
1,2-Dichloroethane-d4 Result 48 ug/L Recovery 96 % Limits (65 - 135)

Laboratory ID 18739004
Sample ID W-IND
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8015B TPH Diesel Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Stoddard Solvent	8015B TPHd	12/21/08	01/08/09	ND	50.0 ug/L	1:1

Laboratory ID 18739004
Sample ID W-IND
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8015B TPH Gas Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
TPHgas	8015B TPHgas	12/27/08	12/27/08	ND	50 ug/L	1:1

Surrogates
Trifluorotoluene Result 18 ug/L Recovery 90 % Limits (65 - 135)

Laboratory ID 18739004
Sample ID W-IND
Matrix Water

Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8260B Oxygenates Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOC	12/27/08	12/27/08	0.7	0.50 ug/L	1:1
Benzene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Toluene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOC	12/27/08	12/27/08	ND	1.0 ug/L	1:1

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18739
Laboratory ID 18739004
Sample ID W-IND
Matrix Water

Workorder ID GMR_CityOfParis
Sampled 12/18/08
Received 12/19/08
Reported 01/21/09

8260B Oxygenates - 8260B BTEX/FOC (continued)

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/L	96 %	(65 - 135)

Method Blank Report

Client ID	Western Resource Management	Sample ID	MB for HBN 359650 [SGXV/2552]				
Laboratory ID	89238	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Stoddard Solvent	8015B TPHd	12/21/08	01/08/09	ND	50.0 ug/L	1:1	

Lab Control Sample Report

Client ID	Western Resource Management	Sample ID	LCS for HBN 359650 [SGXV/2552]				
Laboratory ID	89239	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Stoddard Solvent	8015B TPHd	12/21/08	01/08/09	913	50.0 ug/L	1:1	

Lab Control Sample Duplicate Report

Client ID	Western Resource Management	Sample ID	LCSD for HBN 359650 [SGXV/2552]				
Laboratory ID	89240	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Stoddard Solvent	8015B TPHd	12/21/08	01/08/09	854	50.0 ug/L	1:1	

Method Blank Report

Client ID	Western Resource Management	Sample ID	MB for HBN 359850 [VGXV/2982]				
Laboratory ID	89271	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	ND	50 ug/L	1:1	
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	15.4 ug/L	77 %	(65 - 135)				

Lab Control Sample Report

Client ID	Western Resource Management	Sample ID	LCS for HBN 359850 [VGXV/2982]				
Laboratory ID	89272	Matrix	Water				
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	710	50 ug/L	1:1	

Lab Control Sample Duplicate Report

Client ID	Western Resource Management			Sample ID	LCSD for HBN 359850 [VGXV/2982]		
Laboratory ID	89273			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	705	50 ug/L	1:1	

Matrix Spike Report

Client ID	Western Resource Management			Sample ID	MS for HBN 359850 [VGXV/2982]		
Laboratory ID	89274			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	792	50 ug/L	1:1	

Matrix Spike Duplicate Report

Client ID	Western Resource Management			Sample ID	MSD for HBN 359850 [VGXV/2982]		
Laboratory ID	89275			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	801	50 ug/L	1:1	

Method Blank Report

Client ID	Western Resource Management			Sample ID	MB for HBN 359853 [VGXV/2983]		
Laboratory ID	89276			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	ND	50 ug/L	1:1	
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	15 ug/L	75 %	(65 - 135)				

Lab Control Sample Report

Client ID	Western Resource Management			Sample ID	LCS for HBN 359853 [VGXV/2983]		
Laboratory ID	89277			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	708	50 ug/L	1:1	

Lab Control Sample Duplicate Report

Client ID	Western Resource Management			Sample ID	LCSD for HBN 359853 [VGXV/2983]		
Laboratory ID	89278			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	705	50 ug/L	1:1	

Matrix Spike Report

Client ID	Western Resource Management			Sample ID	MS for HBN 359853 [VGXV/2983]		
Laboratory ID	89279			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	1060	50 ug/L	1:1	

Matrix Spike Duplicate Report

Client ID	Western Resource Management			Sample ID	MSD for HBN 359853 [VGXV/2983]		
Laboratory ID	89280			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
TPHgas	8015B TPHgas	12/27/08	12/27/08	907	50 ug/L	1:1	

Method Blank Report

Client ID	Western Resource Management			Sample ID	MB for HBN 359952 [VMXV/3090]		
Laboratory ID	89322			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Methyl-tert-butyl-ether	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	ND	0.50 ug/L	1:1	
Benzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	ND	1.0 ug/L	1:1	
Toluene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	ND	1.0 ug/L	1:1	
Ethylbenzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	ND	1.0 ug/L	1:1	
Xylene, Total	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	ND	1.0 ug/L	1:1	
Surrogates	Result	Recovery	Limits				
1,2-Dichloroethane-d4	51 ug/L	102 %	(65 - 135)				

Lab Control Sample Report

Client ID	Western Resource Management			Sample ID	LCS for HBN 359952 [VMXV/3090]		
Laboratory ID	89323			Matrix	Water		
Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution	
Methyl-tert-butyl-ether	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	64	0.50 ug/L	1:1	
Benzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	50	1.0 ug/L	1:1	

Lab Control Sample Report

Client ID Western Resource Management **Sample ID** LCS for HBN 359952 [VMXV/3090]
Laboratory ID 89323 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
(continued)						
Toluene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	50	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	51	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	153	1.0 ug/L	1:1

Lab Control Sample Duplicate Report

Client ID Western Resource Management **Sample ID** LCSD for HBN 359952 [VMXV/3090]
Laboratory ID 89324 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	66	0.50 ug/L	1:1
Benzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	53	1.0 ug/L	1:1
Toluene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	52	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	52	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	156	1.0 ug/L	1:1

Matrix Spike Report

Client ID Western Resource Management **Sample ID** MS for HBN 359952 [VMXV/3090]
Laboratory ID 89325 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	51	0.50 ug/L	1:1
Benzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	85	1.0 ug/L	1:1
Toluene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	50	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	47	1.0 ug/L	1:1
Xylene, Total	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	150	1.0 ug/L	1:1

Matrix Spike Duplicate Report

Client ID Western Resource Management **Sample ID** MSD for HBN 359952 [VMXV/3090]
Laboratory ID 89326 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	58	0.50 ug/L	1:1
Benzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	86	1.0 ug/L	1:1
Toluene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	50	1.0 ug/L	1:1
Ethylbenzene	8260B BTEX/FOCl2/27/08	12/27/08	12/27/08	45	1.0 ug/L	1:1

Matrix Spike Duplicate Report

Client ID	Western Resource Management	Sample ID	MSD for HBN 359952 [VMXV/3090]
Laboratory ID	89326	Matrix	Water

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
(continued)						
Xylene, Total	8260B BTEX/FOCl2/27/08	12/27/08		149	1.0 ug/L	1:1

QC SUMMARY

Client ID	Western Resource Management	Original	18727001
QC Batch	VGX 3102	Samples	Matrix Spike [89274]
Matrix	Water		Matrix Spike Duplicate [89275]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	65	66	(65-135)	1.5	(20 MAX)

Client ID	Western Resource Management	Original	18739004
QC Batch	VGX 3103	Samples	Matrix Spike [89279]
Matrix	Water		Matrix Spike Duplicate [89280]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	106	91	(65-135)	15	(20 MAX)

Client ID	Western Resource Management	Original	18727001
QC Batch	VMX 3133	Samples	Matrix Spike [89325]
Matrix	Water		Matrix Spike Duplicate [89326]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Methyl-tert-butyl-ether	102	116	(65-135)	13	(20 MAX)
Benzene	110	112	(65-135)	1.8	(20 MAX)
Toluene	96	96	(65-135)	00	(20 MAX)
Ethylbenzene	94	90	(65-135)	4.3	(20 MAX)
Xylene, Total	97	96	(65-135)	1.0	(20 MAX)

Client ID	Western Resource Management	Samples	Lab Control Sample [89239]
QC Batch	SGX 2582		Lab Control Sample Duplicate [89240]
Matrix	Water		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Stoddard Solvent	91	85		6.8	

Client ID	Western Resource Management	Samples	Lab Control Sample [89272]
QC Batch	VGX 3102		Lab Control Sample Duplicate [89273]
Matrix	Water		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	71	70	(65-135)	1.4	(20 MAX)

QC SUMMARY

Client ID	Western Resource Management	Samples	Lab Control Sample [89277]			
QC Batch	VGX 3103		Lab Control Sample Duplicate [89278]			
Matrix	Water					
Parameter		Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas		71	70	(65-135)	1.4	(20 MAX)

Client ID	Western Resource Management	Samples	Lab Control Sample [89323]			
QC Batch	VMX 3133		Lab Control Sample Duplicate [89324]			
Matrix	Water					
Parameter		Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Methyl-tert-butyl-ether		128	132	(65-135)	3.1	(20 MAX)
Benzene		100	106	(65-135)	5.8	(20 MAX)
Toluene		100	104	(65-135)	3.9	(20 MAX)
Ethylbenzene		102	104	(65-135)	1.9	(20 MAX)
Xylene, Total		102	104	(65-135)	1.9	(20 MAX)