

ED HEMMAT
3840 SAN PABLO AVENUE
EMERYVILLE, CA 94608

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March 11, 2008

Ms. Donna Drogos
ACHCSA
1131 Harbor Parkway, Suite 250
Oakland, California 94502-6577

**SUBJECT: FIRST QUARTER OF 2008 GROUNDWATER
MONITORING AND SAMPLING REPORT**
5630 San Pablo Avenue, Oakland, CA

Dear Ms. Drogos:

Enclosed, please find a copy of the February 13, 2008 subject First Quarter of 2008 Groundwater Monitoring and Sampling Report prepared by my consultant, Enviro Soil Tech Consultants.

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

Sincerely,



ED HEMMAT

**FIRST QUARTER OF 2008 GROUNDWATER
MONITORING & SAMPLING
FOR THE PROPERTY
LOCATED AT 5630 SAN PABLO AVENUE
OAKLAND, CALIFORNIA
FEBRUARY 13, 2008**

**PREPARED FOR:
MR. ED HEMMAT
3840 SAN PABLO AVENUE
EMERYVILLE, CALIFORNIA 94608**

**BY:
ENVIRO SOIL TECH CONSULTANTS
131 TULLY ROAD
SAN JOSE, CALIFORNIA 95111**

ENVIRO SOIL TECH CONSULTANTS

LIST OF TABLES

- TABLE 1** ... Groundwater Monitoring Data and Analytical Results
- TABLE 2** ... Recent Groundwater Monitoring Data and Analytical Results
- TABLE 3** ... Summary of Monitoring Wells Data

LIST OF FIGURES

- FIGURE 1** ... Site Vicinity Map showing 5630 San Pablo Avenue,
Oakland, California
- FIGURE 2** ... Groundwater Elevation Contour Map
- FIGURE 3** ... Isocontours of TPHg Map
- FIGURE 4** ... Isocontours of Benzene Map
- FIGURE 5** ... Isocontours of MTBE Map

LIST OF APPENDICES

APPENDIX "A" ... Tables 1, 2 and 3

APPENDIX "B" ... Figures 1, 2, 3 4and 5

APPENDIX "C" ... Hydrographs

APPENDIX "D" ... Standard Operation Procedures

APPENDIX "E" ... Field Notes Data

APPENDIX "F" ... Laboratory Report and Chain-of-Custody
Documentation

TABLE OF CONTENTS	<u>Page Number</u>
Letter of Transmittal	1-2
Site Description	3
Scope of Present Work	3
Field Activities	4
Depth to Groundwater and Flow Direction	4
Analytical Results	5
Recommendation	6
Limitations	6-7

APPENDIX "A"

Table 1 - Groundwater Monitoring Data and Analytical Results	T1-T3
Table 2 - Recent Groundwater Monitoring Data and Analytical Results	T4
Table 3 - Summary of Monitoring Wells Data	T5

TABLE OF CONTENTS CONT'D

Page Number

APPENDIX "B"

Figure 1 - Vicinity Map	M1
Figure 2 - Site Plan	M2
Figure 3 - Isocontours of TPHg Map	M3
Figure 4 - Isocontours of Benzene Map	M4
Figure 5 - Isocontours of MTBE Map	M5

APPENDIX "C"

Hydrographs

APPENDIX "D"

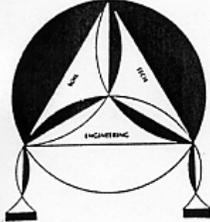
Groundwater Sampling	SOP1
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APPENDIX "E"

Field Notes Data

APPENDIX "F"

Entech Analytical Labs Report and Chain-of-Custody



ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

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February 13, 2008

File No. 12-04-770-GI

Mr. Ed Hemmat

3840 San Pablo Avenue
Emeryville, California 94608

**SUBJECT: FIRST QUARTER OF 2008 GROUNDWATER
MONITORING & SAMPLING FOR THE PROPERTY**

Located at 5630 San Pablo Avenue, in
Oakland, California

Dear Mr. Hemmat:

This report presents results from the first quarter 2008 groundwater monitoring and sampling event conducted by Enviro Soil Tech Consultants (ESTC) at the subject site (Figure 1). The depth to groundwater was measured in the five monitoring wells and water samples were collected for laboratory analysis on January 18, 2008.

File No. 12-04-770-GI
February 13, 2008

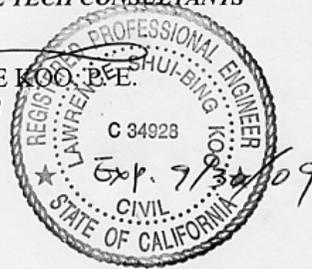
If you have any questions or require additional information, please feel free to contact our office at (408) 297-1500.

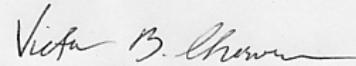
Sincerely,

ENVIRO SOIL TECH CONSULTANTS


FRANK HAMEDI-FARD
GENERAL MANAGER


LAWRENCE KOO, P.E.
C. E. #34928




VICTOR B. CHERVEN, PH.D.
PROFESSIONAL GEOLOGIST #3475

SITE DESCRIPTION

The site is located on the southeast corner of San Pablo Avenue and Aileen Street in Oakland, California (Figure 1), and is currently being used as a storage site. The site contains one single story building. Underground gasoline storage tanks have not been removed from the site, and are located beneath the sidewalk along San Pablo Avenue. The subject property is located in an area of commercial development.

SCOPE OF PRESENT WORK

The scope of work included in the groundwater monitoring program includes:

- Measure water depths in wells STMW-1 to STMW-5 and note whether petroleum sheen and/or odor are present.
- Purge the monitoring wells of standing water.
- Collect water samples from each well.
- Submit samples to a state-certified laboratory for chemical analyses of Total Petroleum Hydrocarbons as gasoline and diesel (TPHg and TPHd); Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX); Methyl Tertiary Butyl Ether (MTBE) and other fuel oxygenates.
- Review results and prepare a report of the investigation.

FIELD ACTIVITIES

On January 18, 2008, ESTC's staff monitored the five monitoring wells and collected water samples. Depth measurements and other observations were recorded on the field monitoring sheet. After the depth to groundwater was measured, approximately four to five well volumes of water were bailed from each well in order to purge standing water from the casing and assure that water samples would be representative of surrounding groundwater. The purged water was stored on site in a plastic storage tank. The monitoring data are shown in Tables 1 and 2.

Water samples were collected after purging. A stainless steel bailer was used for sample collection. Water sampling equipment was decontaminated before and after each well was sampled using Tri-sodium Phosphate (TSP) and water wash, followed by double rinsing. The samples were preserved in 40-milliliter glass vials sealed with Teflon-lined screw caps, labeled and placed in a cold ice chest and then transported to Entech Analytical Labs, a state-certified laboratory for analysis, with proper chain-of-custody. The sampling was conducted in accordance with ESTC's Standard Operation Procedures (Appendix "D") and ACHCSA-EHS guidelines.

DEPTH TO GROUNDWATER AND FLOW DIRECTION

The depth to groundwater on January 18 ranged between 5.5 feet and 7.7 feet below grade. This is between 0.5 and 1 foot shallower than in the fourth quarter of 2007. Converting the data to surface elevation indicates that the water table continued to slope southward, with a hydraulic gradient of approximately 0.047 ft/ft (Figure 2). This steep gradient is about the same as was calculated in the fourth quarter of 2007.

ANALYTICAL RESULTS

The laboratory results are summarized in Table 2 (Appendix "A"), and the laboratory report is contained in Appendix "F". Data for all previous monitoring events are shown in Table 1.

The TPHg concentrations remained below the detection limit in STMW-1 and STMW-2, but rose above this limit in STMW-3. TPHd was also reported in this well, although the laboratory noted that the hydrocarbons were in the C9-C16 range and the chromatogram was not typical of diesel fuel. In STMW-4, the concentration dropped from 510 to 150 µg/L (parts per billion), but in STMW-5 it rose from 270 ppb to 1,400 ppb. The TPHd concentration was above the detection limit in both of these wells, but the laboratory again noted that the chromatogram was more typical of gasoline than diesel. The TPHg concentration is contoured in Figure 3.

The concentration of volatile aromatic compounds increased slightly in most wells this quarter. In the previous quarter, STMW-4 was the only well that was impacted by these compounds. Nonetheless, concentrations are low, and STMW-4 is the only well in which the total BTEX concentration exceeded 10 parts per billion. Benzene concentrations are mapped in Figure 4.

The Methyl tertiary butyl ether (MTBE) concentration in STMW-1 was about half of its value in October 2007, and this remains the only well in which MTBE was detected. As noted previously, it appears that MTBE is present only in the vicinity of this well (Figure 5).

RECOMMENDATIONS

In our report for the first quarter of 2007, we hypothesized that “Due to the pattern of declining concentrations between May 2005 and February 2007, groundwater contamination at this site may be undergoing natural attenuation.” We recommended that the monitoring frequency be increased to quarterly, but received no reply to this recommendation and did not monitor in the second or third quarters. In the fourth quarter of 2007, the concentration of all analytes was lower than in the first quarter, and we recommended continued monitoring to determine whether this pattern of decline continues into 2008.

There was a noticeable increase in the TPHg concentration in STMW-5 this quarter, but otherwise the changes were modest and are probably within the limits of laboratory and/or field error. Overall concentrations are low, and do not pose a serious risk to the environment or the public. We recommend reducing the monitoring frequency to semi-annual for the remainder of 2008.

A copy of this report should be forwarded to ACHCSA-EHS and the Regional Water Quality Control Board for their review and comments.

LIMITATIONS

This report and the associated work have been provided in accordance with the general principles and practices currently employed in the environmental consulting profession. The contents of this report reflect the conditions of the site at this particular time. The findings of this report are based on:

- 1) The observations of field personnel.
- 2) The results of laboratory analyses performed by a state-certified laboratory.

It is possible that variations in the soil and groundwater could exist beyond the points explored in this investigation. Also, changes in groundwater conditions of a property can occur with the passage of time due to variations in rainfall, temperature, regional water usage and other natural processes or the works of man on this property or adjacent property.

The services that ESTC provided have been in accordance with generally accepted environmental professional practices for the nature and conditions of work completed in the same or similar localities at the time the work was performed. The contents of this report reflect the conditions of the subject site at this particular time. No other warranties, expressed or implied as to the professional advice provided are made.

File No. 12-04-770-GI
February 13, 2008

A P P E N D I X "A"

TABLES

ENVIRO SOIL TECH CONSULTANTS

TABLE 1
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs By 82060B
5/19/05a	STMW-1 (41.92)*	20	5-20	6.68K	35.24	No sheen or odor	220	ND <50b	11	18	3.1	20	ND <1	NA	NA	NA	Not Analyzed
4/06/06				4.16*	37.76	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	1.7	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/05/07				8.38K	33.54	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	5.4	ND <0.5	ND <10	ND <0.5	None Detected<0.5
10/15/07				6.44K	35.48	No sheen or odor	ND <50	ND <52	ND <0.5	ND <0.5	ND <0.5	ND <0.5	4.1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08				5.50K	34.42	No sheen or odor	ND <50	ND <50	ND <0.5	0.64	ND <0.5	ND <0.5	2.7	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/19/05a	STMW-2 (41.74)*	20	5.20	7.32K	34.42	No sheen or odor	170	ND <50b	11	18	3.5	21	ND <1	NA	NA	NA	Not Analyzed
4/06/06				4.36*	37.38	Rainbow sheen No odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/05/07				8.06K	33.68	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
10/15/07				7.23K	34.51	No sheen or odor	ND <50	ND <58	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08				6.32K	35.42	No sheen or odor	ND <50	ND <50	ND <0.5	1	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/19/05a	STMW-3 (42.01)*	20	5-20	8.26K	33.75	No sheen or odor	470	ND <50b	13	18	4.9	22	ND <1	NA	NA	NA	Not Analyzed
4/06/06				6.02K	35.99	Rainbow sheen No odor	2200	ND <50c	ND <0.5	ND <0.5	ND <0.5	ND <0.5	1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/05/07				9.32K	32.69	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
10/15/07				8.20K	33.81	No sheen or odor	ND <50	ND <55	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08h				7.70K	34.31	Rainbow sheen No odor	820f	390g	ND <2.5	ND <2.5	ND <2.5	ND <2.5	ND <5	ND <2.5	ND <50	ND <2.5	Isopropylbenzene 8.6
5/19/05a	STMW-4 (42.48)*	20	5-20	8.10K	34.38	Rainbow sheen Light petroleum odor	2700	ND <500b	3.2	ND <1	1.6	5	ND <2	ND <1	ND <20	ND <1	Isopropylbenzene 36 n-Propylbenzene 30

**TABLE 1 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs By 82060B
4/06/06	STMW-4 (42.48)*	20	5-20	6.32κ	36.16	Rainbow sheen Petroleum odor	1800	ND <50c	1.5	1.4	1.1	3.5	ND <2	ND <1	ND <20	ND <1	Isopropylbenzene 41 n-Propylbenzene 23
2/05/07				9.24κ	33.24	Rainbow sheen Petroleum odor	2500	ND <50d	5	ND <1	1.5	3.5	ND <2	ND <1	ND <20	ND <1	Isopropylbenzene 45 n-Propylbenzene 28
10/15/07				8.06κ	34.42	No sheen or odor	510	ND <50e	1.5	0.53	0.54	1.3	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 19 n-Propylbenzene 9.5
1/18/08				7.64κ	34.84	No sheen or odor	150f	57i	1.3	0.56	ND <0.5	0.58	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 2.6
5/19/05a	STMW-5 (40.84)*	20	5-20	6.58κ	34.26	Light rainbow sheen No odor	1500	ND <50b	16	ND <0.5	0.52	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 13
4/06/06				4.74*	36.10	Rainbow sheen No odor	640	ND <50c	15	ND <0.5	0.91	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 7.1
2/05/07				7.96κ	32.88	No sheen or odor	600	ND <50d	4.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 8.4
10/15/07				6.72κ	34.12	No sheen or odor	270	ND <50e	0.83	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08h				5.52κ	35.32	Rainbow sheen Petroleum odor	1400f	3300g	2.8	3.2	ND <2.5	4	ND <5	ND <2.5	ND <50	ND <2.5	Isopropylbenzene 44 n-Propylbenzene 27

TPHg - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

PCE - Tetrachloroethene

TCE - Trichloroethene

GW Elev. - Groundwater Elevation

NA - Not Analyzed

* Groundwater was surveyed based on California Coordinate System 1983, Zone 3. The benchmarks are NGVD 1929 Datum

★ Well screens are submerged

a Water samples for TPHg, BTEX and MTBE analyses were collected on May 23, 2005

b Higher boiling gasoline compounds in the diesel range

TPHd - Total Petroleum Hydrocarbons as diesel

MTBE - Methyl Tertiary Butyl Ether

TBA - tert-Butanol

VOCs - Volatile Organic Compounds

Perf. - Perforation

ND - Not Detected (Below Laboratory Reporting Limit)

κ Well screens are not submerged

TABLE 1 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS ($\mu\text{g/L}$)

- c** Hydrocarbon (C8-C36) (C8-C18). No diesel pattern present
- d** Hydrocarbon (C9-C16). No diesel pattern present
- e** Higher boiling gasoline compounds (C9-C16). No diesel pattern
- f** A typical pattern
- g** Not a typical pattern (C9-C16)
- h** Sample was diluted due to high concentration of non-target compounds
- i** Not a typical pattern. Higher boiling gasoline compounds in the diesel range (C9-C16)

TABLE 2
RECENT GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs By 82060B
1/18/08	STMW-1 (41.92)*	20	5-20	5.50K	36.42	No sheen or odor	ND <50	ND <52	ND <0.5	0.64	ND <0.5	ND <0.5	2.7	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08	STMW-2 (41.74)*	20	5.20	6.32K	35.42	No sheen or odor	ND <50	ND <50	ND <0.5	1	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08h	STMW-3 (42.01)*	20	5-20	7.70K	34.31	Rainbow sheen No odor	820f	390g	ND <2.5	ND <2.5	ND <2.5	ND <2.5	ND <5	ND <2.5	ND <50	ND <2.5	Isopropylbenzene 8.6
1/18/08	STMW-4 (42.48)*	20	5-20	7.64K	34.84	No sheen or odor	150f	57i	1.3	0.56	ND <0.5	0.58	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 2.6
1/18/08h	STMW-5 (40.84)*	20	5-20	5.52K	35.32	Rainbow sheen Petroleum odor	1400f	3300g	2.8	3.2	ND <2.5	4	ND <5	ND <2.5	ND <50	ND <2.5	Isopropylbenzene 44 n-Propylbenzene 27

TPHg - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

PCE - Tetrachloroethene

TCE - Trichloroethene

GW Elev. - Groundwater Elevation

ND - Not Detected (Below Laboratory Reporting Limit)

* Groundwater was surveyed based on California Coordinate System 1983, Zone 3. The benchmarks are NGVD 1929 Datum

★ Well screens are submerged

f A typical pattern

g Not a typical pattern (C9-C16)

h Sample was diluted due to high concentration of non-target compounds

i Not a typical pattern. Higher boiling gasoline compounds in the diesel range (C9-C16)

TPHd - Total Petroleum Hydrocarbons as diesel

MTBE - Methyl Tertiary Butyl Ether

TBA - tert-Butanol

VOCs - Volatile Organic Compounds

Perf. - Perforation

K Well screens are not submerged

TABLE 3
SUMMARY OF MONITORING WELLS DATA
IN FEET

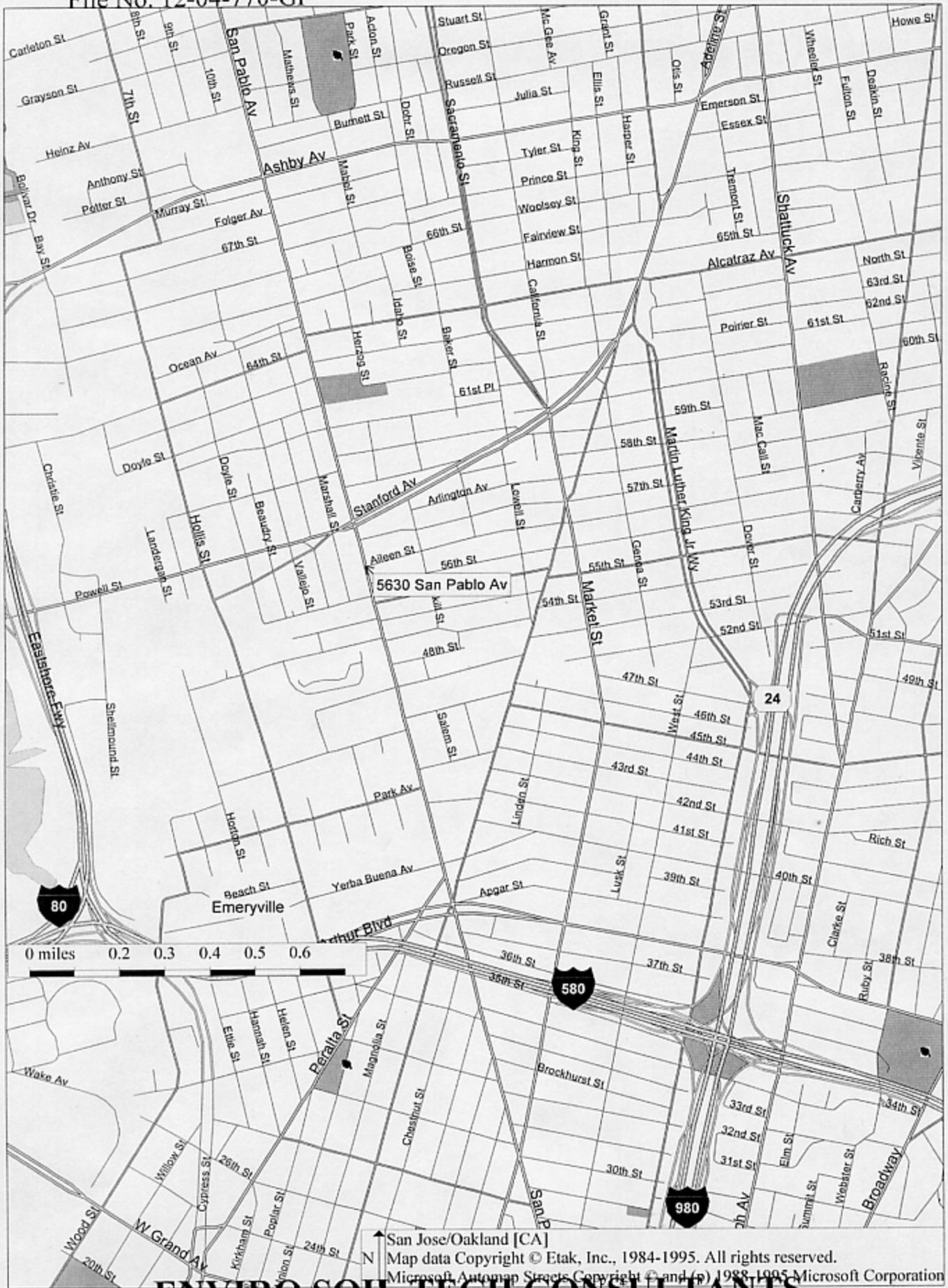
Well No.	Well Diameter (inch)	Depth of Well	Depth of Perforation	Depth of Blank	Depth of Cement	Depth of Bentonite	Depth of Sand
STMW-1	2	20	5-20	0-5	0-3½	3½-4	4-20
STMW-2	2	20	5-20	0-5	0-3½	3½-4	4-20
STMW-3	2	20	5-20	0-5	0-3½	3½-4	4-20
STMW-4	2	20	5-20	0-5	0-3½	3½-4	4-20
STMW-5	2	20	5-20	0-5	0-3½	3½-4	4-20

File No. 12-04-770-GI
February 13, 2008

A P P E N D I X "B"

FIGURES

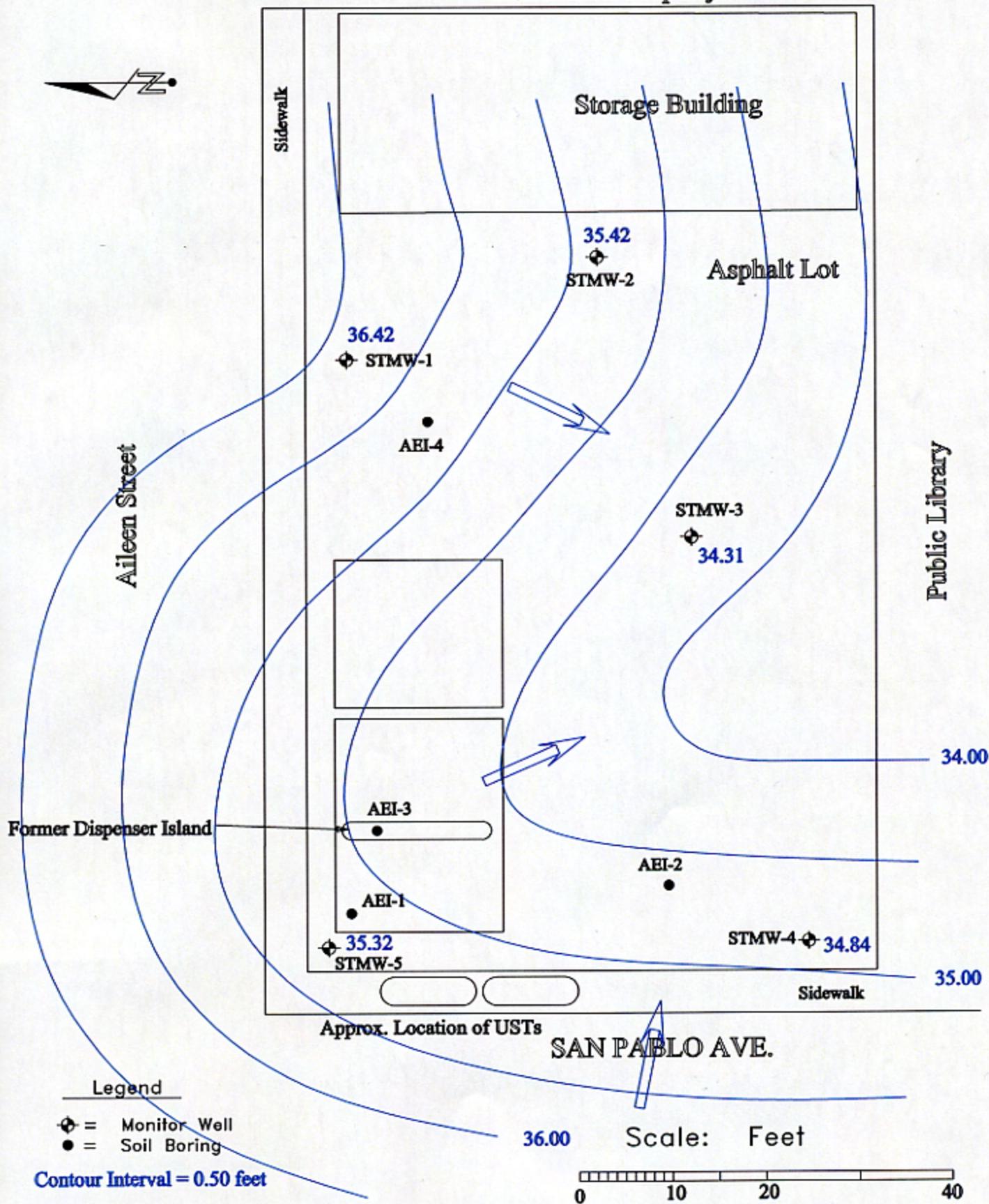
ENVIRO SOIL TECH CONSULTANTS



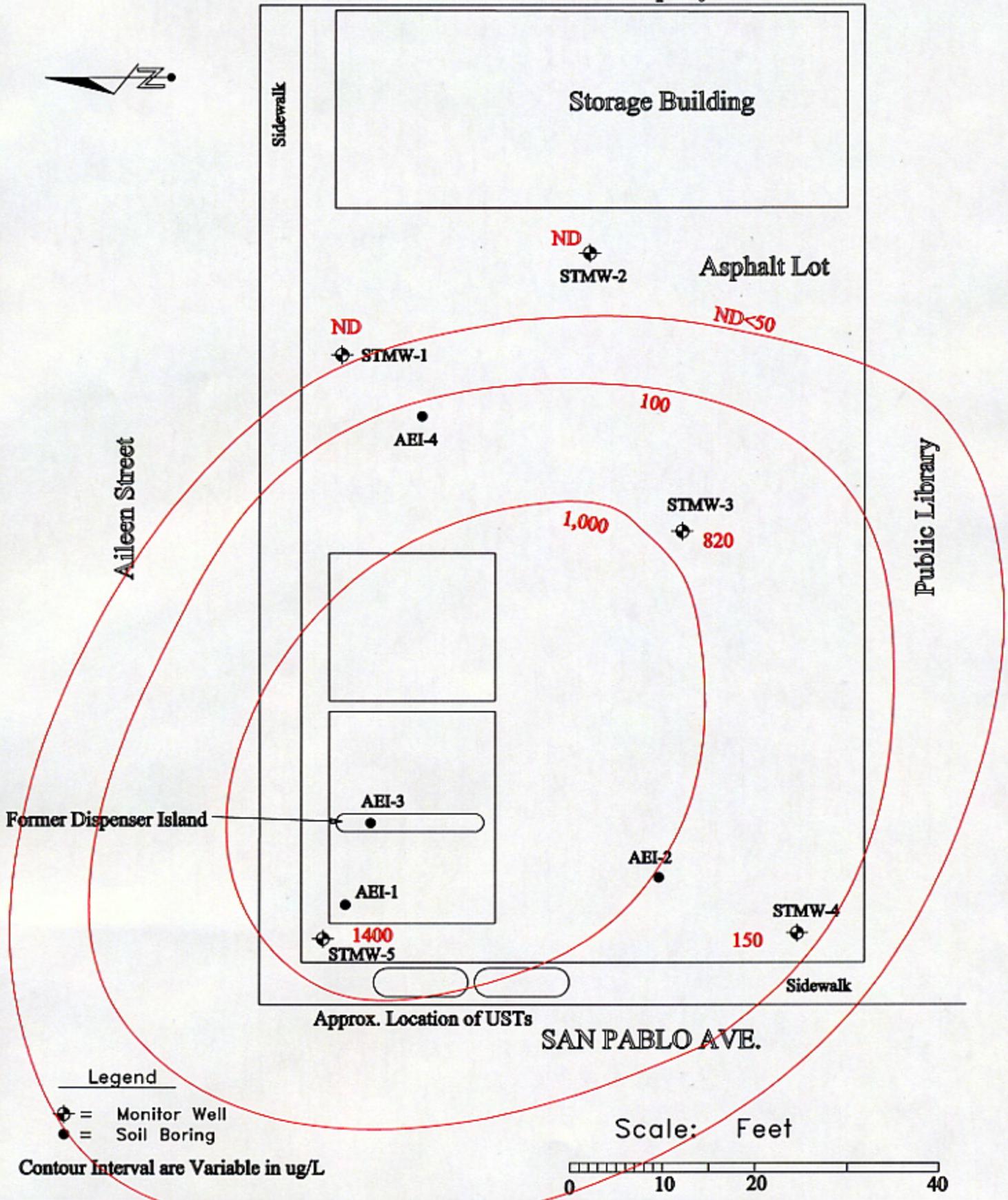
ENVIRO SOIL TECH CONSULTANTS

Figure 1

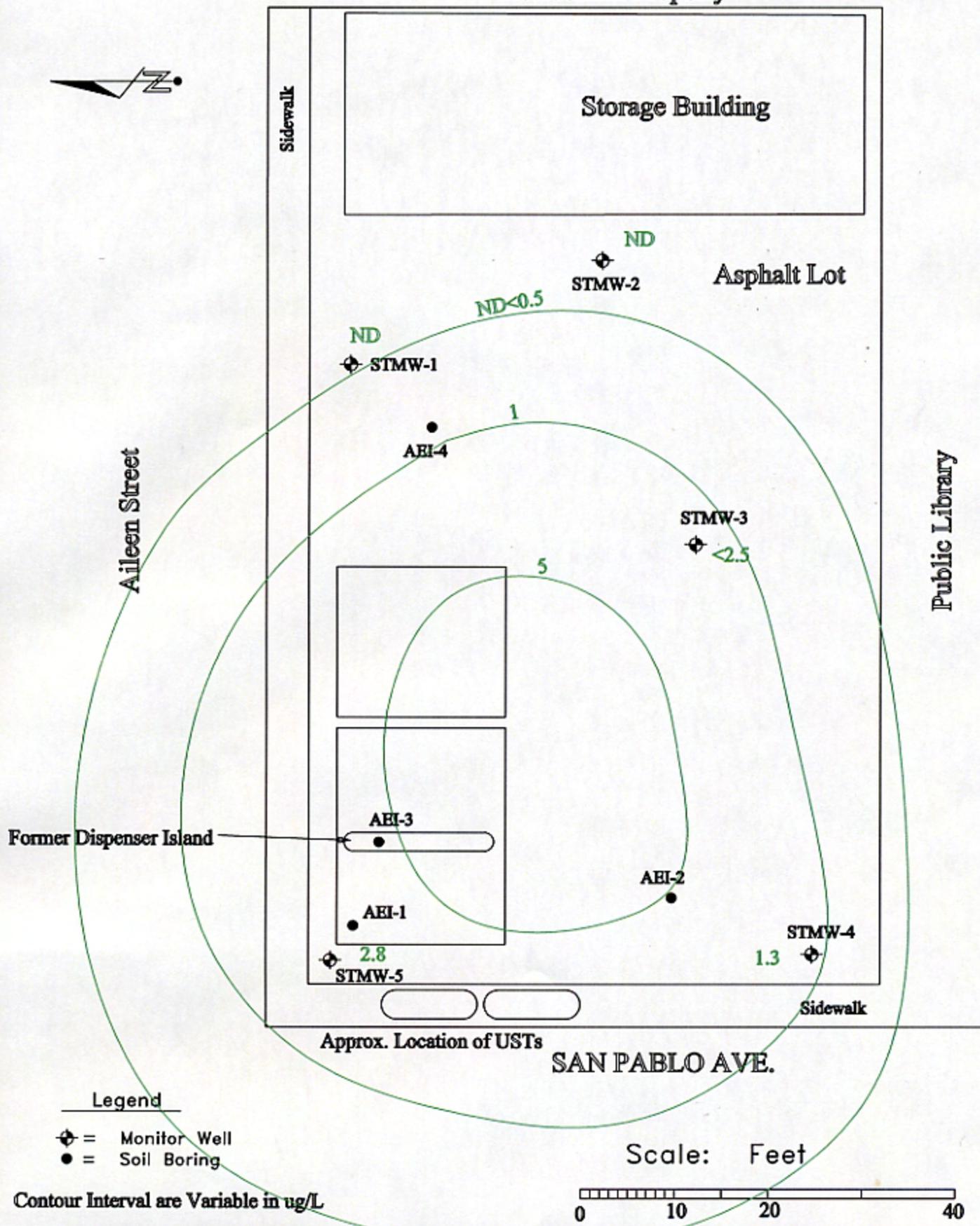
Residential Property



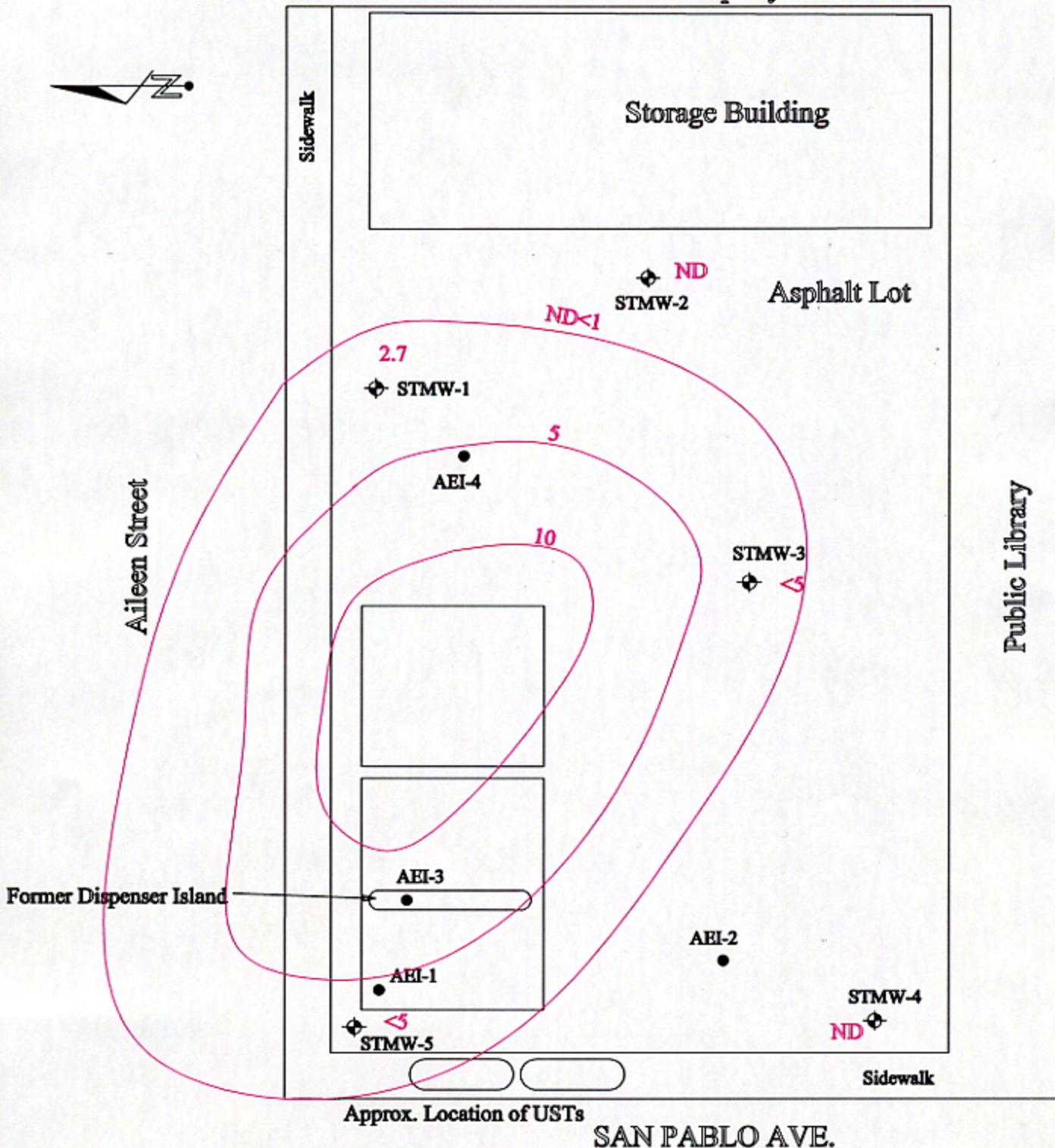
Residential Property



Residential Property



Residential Property

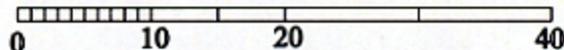


Legend

- ◆ = Monitor Well
- = Soil Boring

Contour Interval = 5 ug/L

Scale: Feet



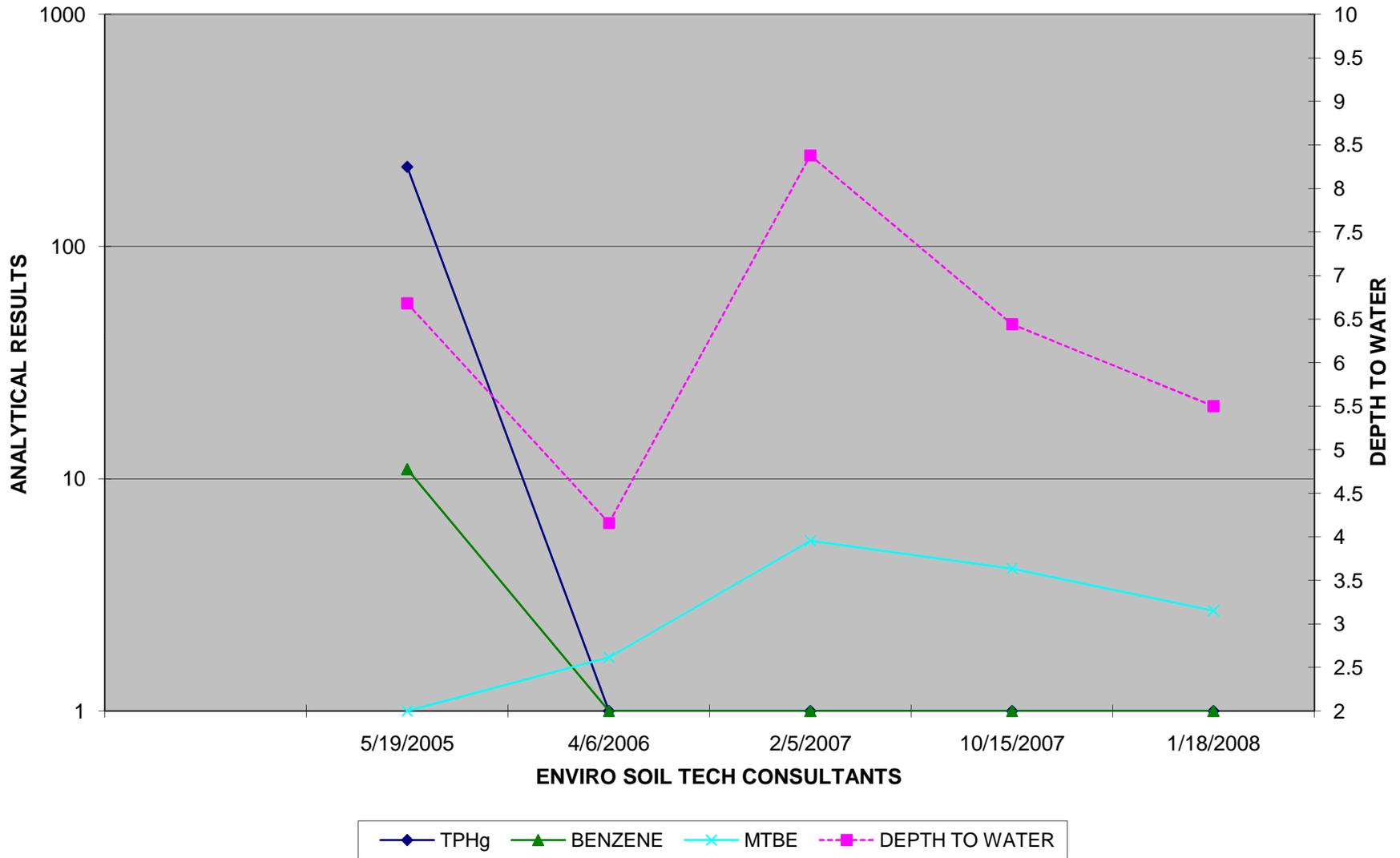
File No. 12-04-770-GI
February 13, 2008

A P P E N D I X "C"

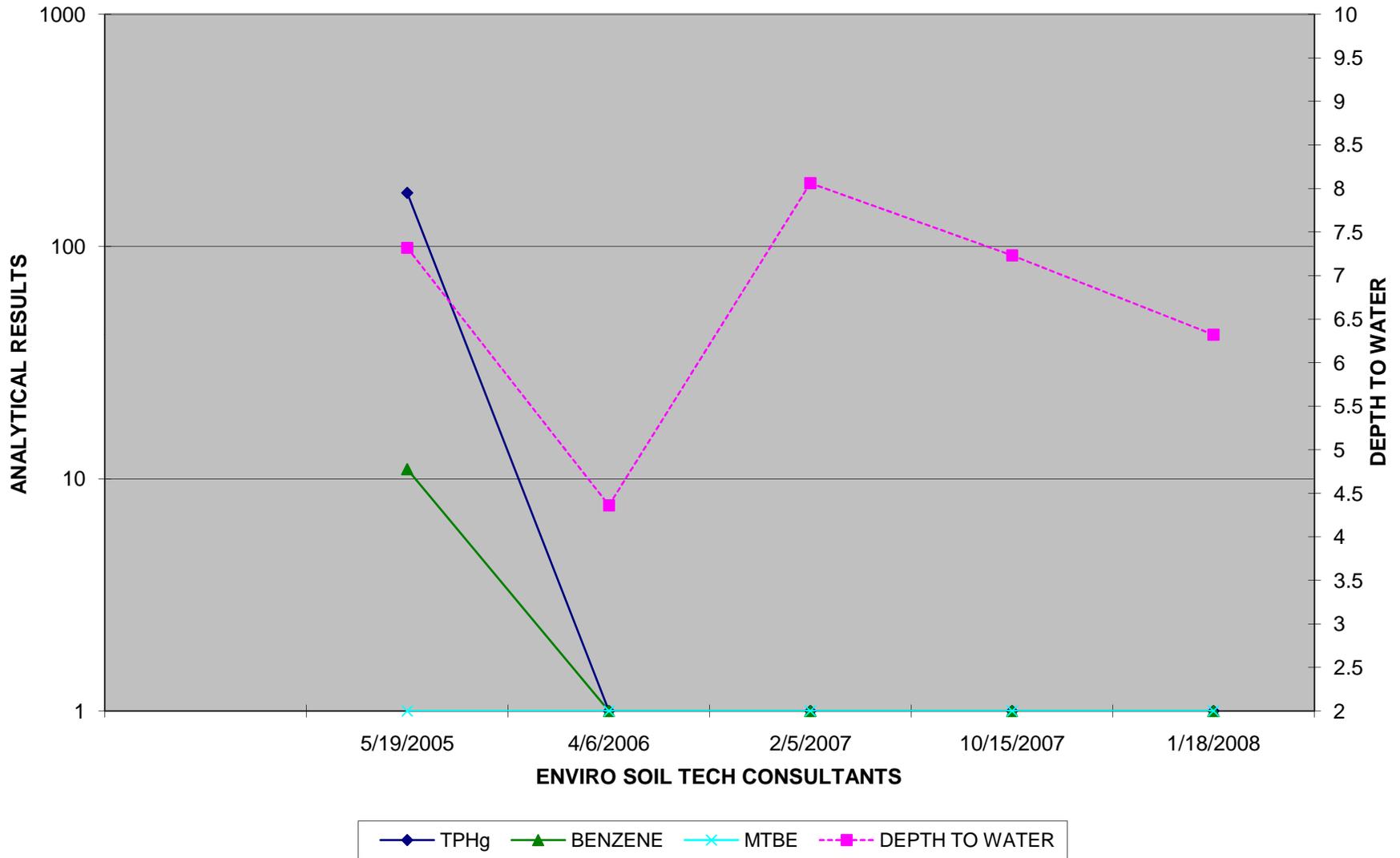
HYDROGRAPHS

ENVIRO SOIL TECH CONSULTANTS

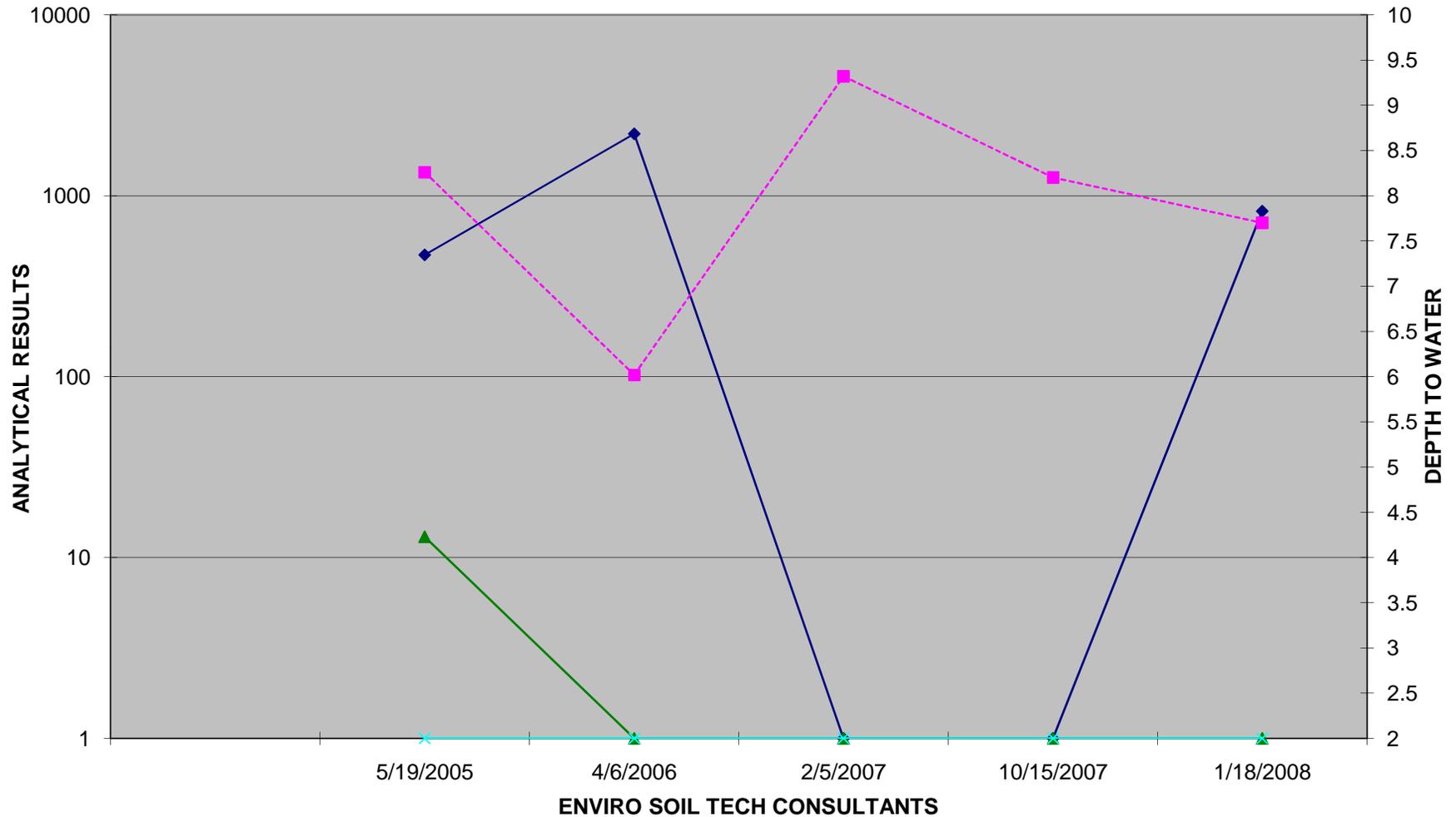
File No.: 12-04-770-GI
TPHg, BENZENE & MTBE RESULTS FOR STMW-1 ($\mu\text{g/L}$)
AND DEPTH TO WATER MEASUREMENT (feet)



File No.: 12-04-770-GI
TPHg, BENZENE & MTBE RESULTS FOR STMW-2 ($\mu\text{g/L}$)
AND DEPTH TO WATER MEASUREMENT (feet)

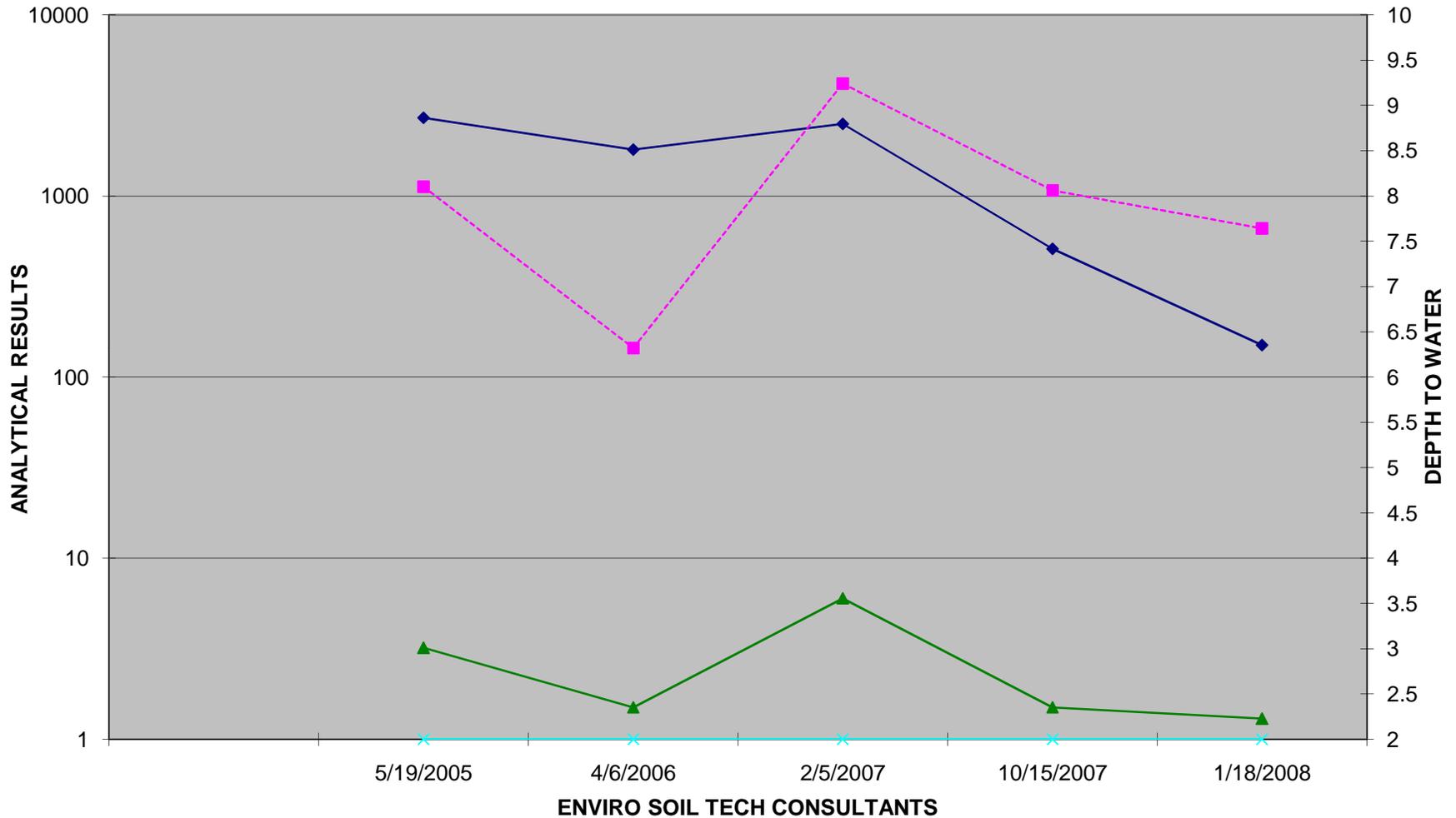


File No.: 12-04-770-GI
TPHg, BENZENE & MTBE RESULTS FOR STMW-3 ($\mu\text{g/L}$)
AND DEPTH TO WATER MEASUREMENT (feet)



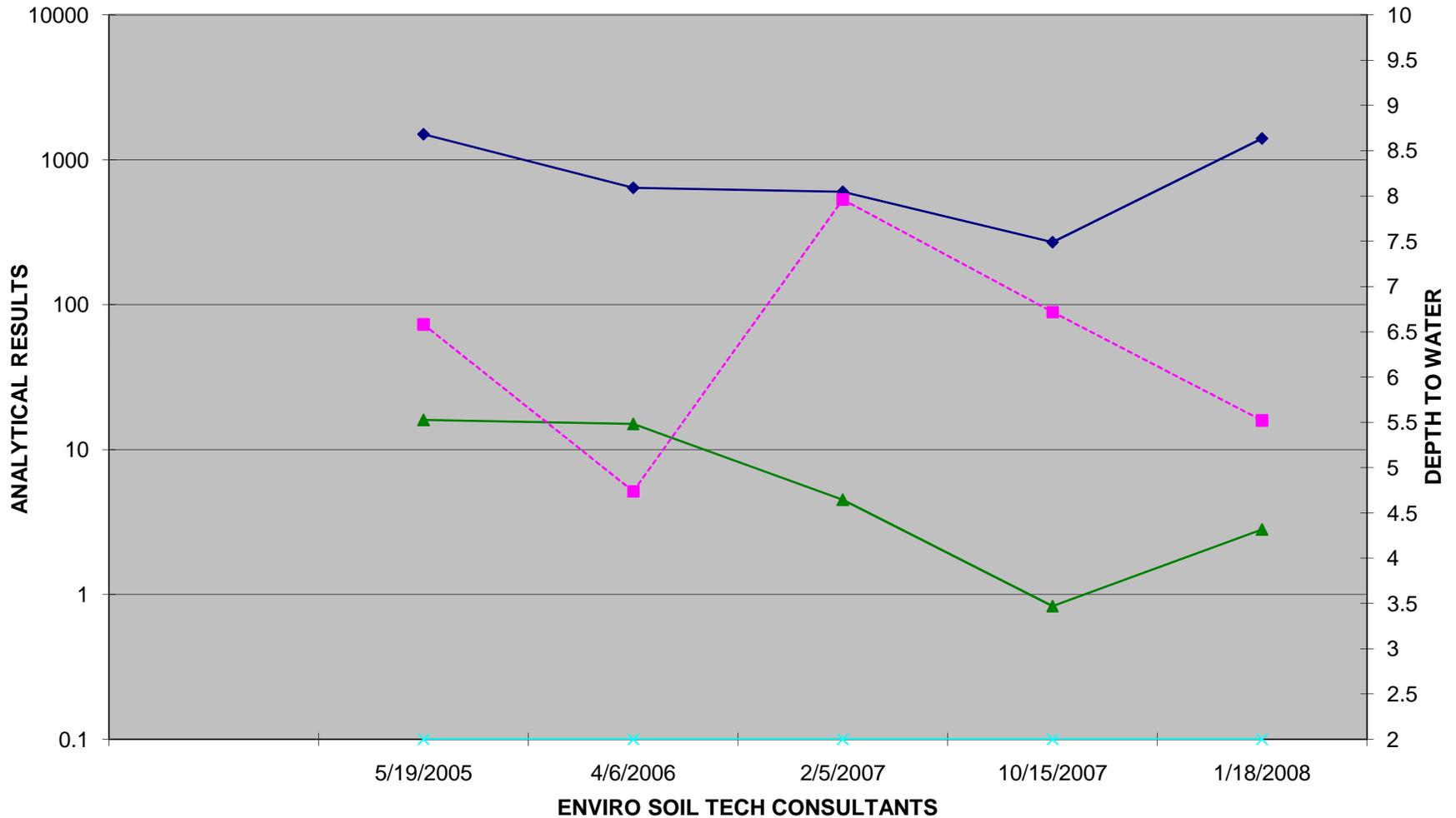
—◆— TPHg —▲— BENZENE —×— MTBE - - -■- - - DEPTH TO WATER

File No.: 12-04-770-GI
TPHg, BENZENE & MTBE RESULTS FOR STMW-4 ($\mu\text{g/L}$)
AND DEPTH TO WATER MEASUREMENT (feet)



◆ TPHg
 ▲ BENZENE
 × MTBE
 ■ DEPTH TO WATER

File No.: 12-04-770-GI
TPHg, BENZENE & MTBE RESULTS FOR STMW-5 (µg/L)
AND DEPTH TO WATER MEASUREMENT (feet)



◆ TPHg
 ▲ BENZENE
 × MTBE
 ■ DEPTH TO WATER

File No. 12-04-770-GI
February 13, 2008

A P P E N D I X "D"

STANDARD OPERATION PROCEDURE

ENVIRO SOIL TECH CONSULTANTS

GROUNDWATER SAMPLING

Prior to collection of groundwater samples, all of the sampling equipment (i.e. bailer, cables, bladder pump, discharge lines and etc.) was cleaned by pumping TSP water solution followed by distilled water.

Prior to purging, the well "Water Sampling Field Survey Forms" were filled out (depth to water and total depth of water column were measured and recorded). The well was then bailed or pumped to remove four to ten well volumes or until the discharged water temperature, conductivity and pH stabilized. "Stabilized" is defined as three consecutive readings within 15% of one another.

The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

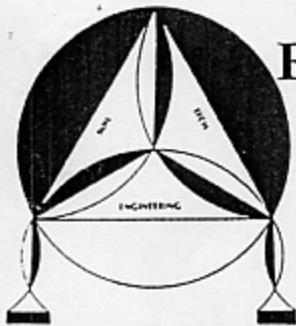
Forty milliliter (ml.), glass volatile organic analysis (VOA) vials and one liter amber glass bottles with Teflon septa were used as sample containers. The groundwater sample was decanted into each glass bottle and VOA vial in such a manner that there was a meniscus at the top. The cap was quickly placed over the top of the glass bottle and vial and securely tightened. The glass bottles and VOA vials were then inverted and tapped to see if air bubbles were present. If none were present, the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information would include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

File No. 12-04-770-GI
February 13, 2008

A P P E N D I X "E"

FIELD NOTES

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ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-970-61

DATE: 1-18-08

DEPTH TO WELL: 20

DEPTH TO WATER: 5^{ft} .60

HEIGHT OF WATER COLUMN: 14.5

WELL NO.: STW-1

SAMPLER: Drift Muds

1 WELL VOLUME: 2.4

5 WELL VOLUME: 12

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: 2"

4"

CALCULATIONS:

2" - x 0.1632 x 14.5 = 2.4

4" - 0.653

PURGE METHOD: BAILER DISPLACEMENT PUMP OTHER

SAMPLE METHOD: BAILER OTHER

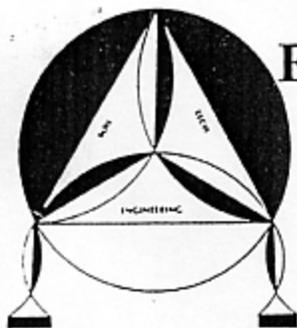
SHEEN: NO YES, DESCRIBE: _____

ODOR: NO YES, DESCRIBE: _____

FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
	3 GAL	5.86	16.4	468
	6 GAL	5.94	17.2	488
	9 GAL	6.28	17.0	442

6^{ft} .60



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Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-770-61

DATE: 1-18-08

DEPTH TO WELL: 20

DEPTH TO WATER: 6^{ft}, 32

HEIGHT OF WATER COLUMN: 13.68

WELL NO.: STMU-2

SAMPLER: Roller Menders

1 WELL VOLUME: 2.2

5 WELL VOLUME: 11

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: ✓ 2"

4"

CALCULATIONS:

2" - x 0.1632 x 13.68 = 2.2

4" - 0.653

PURGE METHOD: ✓ BAILER ~~DISPLACEMENT PUMP~~ OTHER

SAMPLE METHOD: ✓ BAILER OTHER

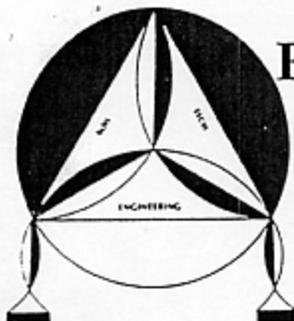
SHEEN: ✓ NO YES, DESCRIBE:

ODOR: ✓ NO YES, DESCRIBE:

FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
	<u>3 GAL</u>	<u>5.77</u>	<u>15.7</u>	<u>374</u>
	<u>6 GAL</u>	<u>5.80</u>	<u>16.3</u>	<u>389</u>
	<u>9 GAL</u>	<u>5.81</u>	<u>16.9</u>	<u>380</u>

7^{ft}, 28



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Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-770-61
 DATE: 1-18-08
 DEPTH TO WELL: 20
 DEPTH TO WATER: 7^{ft}.70
 HEIGHT OF WATER COLUMN: _____

WELL NO.: STW-3
 SAMPLER: Richard Manly
 1 WELL VOLUME: 2
 5 WELL VOLUME: 10
 ACTUAL PURGED VOLUME: 9

CASING DIAMETER: _____ 2" _____ 4"

CALCULATIONS:

2" - x 0.1632 x 12.3 = _____
 4" - 0.653 _____

PURGE METHOD: BAILER DISPLACEMENT PUMP _____ OTHER

SAMPLE METHOD: BAILER _____ OTHER

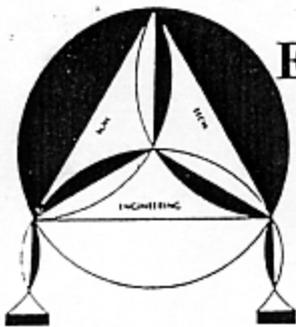
SHEEN: NO YES, DESCRIBE: RAIN BOW

ODOR: NO _____ YES, DESCRIBE: _____

FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
	<u>3 gal</u>	<u>5.02</u>	<u>16.9</u>	<u>373</u>
	<u>6 gal</u>	<u>5.17</u>	<u>17.2</u>	<u>368</u>
	<u>9 gal</u>	<u>5.47</u>	<u>16.7</u>	<u>377</u>

8^{ft} .42



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Tel: (408) 297-1500

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FILE NO.: 12-04-770-61
DATE: 1-18-08
DEPTH TO WELL: 20
DEPTH TO WATER: 7' 1.64
HEIGHT OF WATER COLUMN: 12.36

WELL NO.: SMW-4
SAMPLER: Rotary pump
1 WELL VOLUME: 2
5 WELL VOLUME: 10
ACTUAL PURGED VOLUME: 9

CASING DIAMETER: 2" 4"

CALCULATIONS:

2" - x 0.1632 X 12.36 =
4" - 0.653 _____

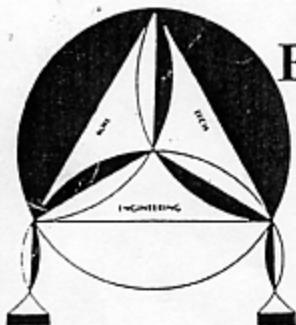
PURGE METHOD: BAILER DISPLACEMENT PUMP OTHER
SAMPLE METHOD: BAILER OTHER

SHEEN: NO YES, DESCRIBE: _____
ODOR: NO YES, DESCRIBE: _____

FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>3 GAL</u>	<u>5.67</u>	<u>17.4</u>	<u>337</u>
_____	<u>6 GAL</u>	<u>5.54</u>	<u>18.0</u>	<u>350</u>
_____	<u>9 GAL</u>	<u>5.29</u>	<u>18.4</u>	<u>366</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

8' 12



ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-770-61

DATE: 1-18-08

DEPTH TO WELL: 20

DEPTH TO WATER: 5 ft 52

HEIGHT OF WATER COLUMN: 14-5

WELL NO.: STMU-5

SAMPLER: Batch manually

1 WELL VOLUME: 2-4

5 WELL VOLUME: 11.8

ACTUAL PURGED VOLUME: 9

4

CASING DIAMETER: ✓ 2"

4"

CALCULATIONS:

2" - x 0.1632 x 14.5 = 2.4

4" - 0.653

PURGE METHOD: ✓ BAILER DISPLACEMENT PUMP OTHER

SAMPLE METHOD: ✓ BAILER OTHER

SHEEN: NO ✓ YES, DESCRIBE: RAINBOW

ODOR: NO ✓ YES, DESCRIBE: PETRO

FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
	<u>3 GAL</u>	<u>6.30</u>	<u>15.6</u>	<u>441</u>
	<u>6 GAL</u>	<u>6.00</u>	<u>16.1</u>	<u>487</u>
	<u>9 GAL</u>	<u>5.75</u>	<u>15.9</u>	<u>505</u>

6 FT
110

File No. 12-04-770-GI
February 13, 2008

A P P E N D I X "F"

LABORATORY REPORT

ENVIRO SOIL TECH CONSULTANTS

Northern California 3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Frank Hamedi
Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111

Lab Certificate Number: 59238
Issued: 02/13/2008

Project Number: 12-04-770GI
Project Location: 5630 San Pablo Ave., Oakland

Global ID: T06019784055

Certificate of Analysis - Revision

Note: This is a revision of the original report issued on 1/31/2008 for the change of report layout per client's request.

On January 21, 2008, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test / Comments</u>
Liquid	Electronic Deliverables for Geotracker VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater TPH-Purgeable - GC : EPA 5030B / EPA 8015B TPH-Extractable: EPA 3510C / EPA 8015B(M)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
Subcontracted work is the responsibility of the subcontract laboratory, this includes turn-around-time and data quality.
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



C. L. Thom
Laboratory Director



Northern California

3334 Victor Court, Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Enviro Soil Tech Consultants
 131 Tully Road
 San Jose, CA 95111
 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-001 Sample ID: STMW-1 Matrix: Liquid Sample Date: 1/18/2008 2:08 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	1/21/2008	WM1080121
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
Acetone	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

Enviro Soil Tech Consultants
 131 Tully Road
 San Jose, CA 95111
 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-001 Sample ID: STMW-1 Matrix: Liquid Sample Date: 1/18/2008 2:08 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Methyl-t-butyl Ether	2.7		1.0	1.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	1/21/2008	WM1080121
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
Toluene	0.64		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	116	60 - 130
Dibromofluoromethane	109	60 - 130
Toluene-d8	110	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

Enviro Soil Tech Consultants
 131 Tully Road
 San Jose, CA 95111
 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab # : 59238-001 **Sample ID:** STMW-1 **Matrix:** Liquid **Sample Date:** 1/18/2008 2:08 PM

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	1/22/2008	WDA080122	1/23/2008	WDA080122
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: JHsiang	
n-Hexacosane	86.8		50	- 150				Reviewed by: mtran	

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	1/22/2008	WGC080121
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: JAbidog	
4-Bromofluorobenzene	128		65	- 135				Reviewed by: MaiChiTu	



Northern California

3334 Victor Court, Santa Clara, CA 95054

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Fax: (408) 588-0201

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 131 Tully Road
 San Jose, CA 95111
 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-002 Sample ID: STMW-2 Matrix: Liquid Sample Date: 1/18/2008 1:17 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	1/21/2008	WM1080121
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
Acetone	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier



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Enviro Soil Tech Consultants
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 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-002 Sample ID: STMW-2 Matrix: Liquid Sample Date: 1/18/2008 1:17 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	1/21/2008	WM1080121
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	1/21/2008	WM1080121
Toluene	1.0		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	1/21/2008	WM1080121
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	1/21/2008	WM1080121

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	125	60 - 130
Dibromofluoromethane	111	60 - 130
Toluene-d8	111	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu



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 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab # : 59238-002 **Sample ID:** STMW-2 **Matrix:** Liquid **Sample Date:** 1/18/2008 1:17 PM

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		0.99	50	µg/L	1/22/2008	WDA080122	1/23/2008	WDA080122

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	94.0	50 - 150

Analyzed by: JHsiang
 Reviewed by: mtran

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	1/22/2008	WGC080121

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106	65 - 135

Analyzed by: JAbidog
 Reviewed by: MaiChiTu

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Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab # : 59238-003 **Sample ID:** STMW-3 **Matrix:** Liquid **Sample Date:** 1/18/2008 12:43 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,1-Trichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,2,2-Tetrachloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,2-Trichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloropropene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,3-Trichlorobenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,3-Trichloropropane	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,4-Trichlorobenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,4-Trimethylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dibromo-3-Chloropropane	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dibromoethane (EDB)	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichlorobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichloropropane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3,5-Trimethylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3-Dichlorobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3-Dichloropropane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,4-Dichlorobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,4-Dioxane	ND		5.0	250	µg/L	N/A	N/A	1/24/2008	WM1080124
2,2-Dichloropropane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Butanone (MEK)	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Chlorotoluene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Hexanone	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
4-Chlorotoluene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
4-Methyl-2-Pentanone(MIBK)	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
Acetone	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
Acetonitrile	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Benzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromochloromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromodichloromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromoform	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromomethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Carbon Disulfide	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Carbon Tetrachloride	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Chlorobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloroform	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
cis-1,2-Dichloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-003 Sample ID: STMW-3 Matrix: Liquid Sample Date: 1/18/2008 12:43 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Dibromochloromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Dibromomethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Dichlorodifluoromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Diisopropyl Ether	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Ethyl Benzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Freon 113	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Hexachlorobutadiene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Iodomethane	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Isopropanol	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
Isopropylbenzene	8.6		5.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Methyl-t-butyl Ether	ND		5.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Methylene Chloride	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
n-Butylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
n-Propylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Naphthalene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
p-Isopropyltoluene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Pentachloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
sec-Butylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Styrene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Amyl Methyl Ether	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butanol (TBA)	ND		5.0	50	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butyl Ethyl Ether	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Tetrachloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Tetrahydrofuran	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
Toluene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,2-Dichloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,3-Dichloropropene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,4-Dichloro-2-butene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Trichloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Trichlorofluoromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Vinyl Chloride	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Xylenes, Total	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124

Sample was diluted due to high concentration of non-target compounds.

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	116	60 - 130
Dibromofluoromethane	96.9	60 - 130
Toluene-d8	109	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu



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Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-003 Sample ID: STMW-3 Matrix: Liquid Sample Date: 1/18/2008 12:43 PM

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	390		1.0	50	µg/L	1/22/2008	WDA080122	1/23/2008	WDA080122
Not a typical pattern (C9-C16).									

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
n-Hexacosane	85.9	50 - 150	JHsiang
			Reviewed by: mtran

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	820		5.0	250	µg/L	N/A	N/A	1/30/2008	WGC080130
Atypical pattern.									

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
4-Bromofluorobenzene	544 ***	65 - 135	JAbidog
			Reviewed by: MaiChiTu

*** Surrogate % recovery was outside QC limits due to matrix interference.

Enviro Soil Tech Consultants
 131 Tully Road
 San Jose, CA 95111
 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-004 Sample ID: STMW-4 Matrix: Liquid Sample Date: 1/18/2008 11:56 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	1/24/2008	WM1080124
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	1/24/2008	WM1080124
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	1/24/2008	WM1080124
Acetone	ND		1.0	20	µg/L	N/A	N/A	1/24/2008	WM1080124
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Benzene	1.3		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier



Northern California

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Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland
 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-004 Sample ID: STMW-4 Matrix: Liquid Sample Date: 1/18/2008 11:56 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	1/24/2008	WM1080124
Isopropylbenzene	2.6		1.0	1.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	1/24/2008	WM1080124
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	1/24/2008	WM1080124
Toluene	0.56		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124
Xylenes, Total	0.58		1.0	0.50	µg/L	N/A	N/A	1/24/2008	WM1080124

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	118	60 - 130
Dibromofluoromethane	97.3	60 - 130
Toluene-d8	108	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

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Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-004 Sample ID: STMW-4 Matrix: Liquid Sample Date: 1/18/2008 11:56 AM

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	57		0.98	49	µg/L	1/22/2008	WDA080122	1/23/2008	WDA080122
Not a typical pattern. Higher boiling gasoline compounds in the Diesel range (C9-C16).									

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
n-Hexacosane	83.9	50 - 150	JHsiang
			Reviewed by: mtran

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	150		1.0	50	µg/L	N/A	N/A	1/22/2008	WGC080122
Atypical pattern.									

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
4-Bromofluorobenzene	313 ***	65 - 135	JAbidog
			Reviewed by: MaiChiTu

*** Surrogate % recovery was outside QC limits due to matrix interference.



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Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-005 Sample ID: STMW-5 Matrix: Liquid Sample Date: 1/18/2008 11:09 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,1-Trichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,2,2-Tetrachloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1,2-Trichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,1-Dichloropropene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,3-Trichlorobenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,3-Trichloropropane	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,4-Trichlorobenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2,4-Trimethylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dibromo-3-Chloropropane	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dibromoethane (EDB)	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichlorobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,2-Dichloropropane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3,5-Trimethylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3-Dichlorobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,3-Dichloropropane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,4-Dichlorobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
1,4-Dioxane	ND		5.0	250	µg/L	N/A	N/A	1/24/2008	WM1080124
2,2-Dichloropropane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Butanone (MEK)	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Chlorotoluene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
2-Hexanone	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
4-Chlorotoluene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
4-Methyl-2-Pentanone(MIBK)	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
Acetone	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
Acetonitrile	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Benzene	2.8		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromochloromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromodichloromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromoform	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Bromomethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Carbon Disulfide	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Carbon Tetrachloride	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Chlorobenzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloroform	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Chloromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
cis-1,2-Dichloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-005 Sample ID: STMW-5 Matrix: Liquid Sample Date: 1/18/2008 11:09 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Dibromochloromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Dibromomethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Dichlorodifluoromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Diisopropyl Ether	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Ethyl Benzene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Freon 113	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Hexachlorobutadiene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Iodomethane	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Isopropanol	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
Isopropylbenzene	44		5.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Methyl-t-butyl Ether	ND		5.0	5.0	µg/L	N/A	N/A	1/24/2008	WM1080124
Methylene Chloride	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
n-Butylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
n-Propylbenzene	27		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Naphthalene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
p-Isopropyltoluene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Pentachloroethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
sec-Butylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Styrene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Amyl Methyl Ether	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butanol (TBA)	ND		5.0	50	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butyl Ethyl Ether	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
tert-Butylbenzene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Tetrachloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Tetrahydrofuran	ND		5.0	100	µg/L	N/A	N/A	1/24/2008	WM1080124
Toluene	3.2		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,2-Dichloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,3-Dichloropropene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
trans-1,4-Dichloro-2-butene	ND		5.0	25	µg/L	N/A	N/A	1/24/2008	WM1080124
Trichloroethene	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Trichlorofluoromethane	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Vinyl Chloride	ND		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124
Xylenes, Total	4.0		5.0	2.5	µg/L	N/A	N/A	1/24/2008	WM1080124

Sample was diluted due to high concentration of non-target compounds.

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	117	60 - 130
Dibromofluoromethane	94.0	60 - 130
Toluene-d8	115	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu



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 GlobalID: T06019784055

Certificate of Analysis - Data Report

Samples Received: 01/21/2008

Sample Collected by: Client

Lab #: 59238-005 Sample ID: STMW-5 Matrix: Liquid Sample Date: 1/18/2008 11:09 AM

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	3300		3.8	190	µg/L	1/22/2008	WDA080122	1/24/2008	WDA080122
Not a typical pattern (C9-C16).									

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	90.0	50 - 150

Analyzed by: JHsiang

Reviewed by: mtran

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	1400		5.0	250	µg/L	N/A	N/A	1/22/2008	WGC080122
Atypical pattern.									

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	878 ***	65 - 135

Analyzed by: JAbidog

Reviewed by: MaiChiTu

*** Surrogate % recovery was outside QC limits due to matrix interference.

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Method Blank - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080121

Validated by: MaiChiTu - 01/23/08

QC Batch Analysis Date: 1/21/2008

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L
Surrogate for Blank	% Recovery	Control Limits		
4-Bromofluorobenzene	88.6	65 - 135		

LCS / LCSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080121

Reviewed by: MaiChiTu - 01/23/08

QC Batch ID Analysis Date: 1/21/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	120	117	µg/L	93.6	65 - 135
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	110.0	65 - 135				

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	120	123	µg/L	98.4	5.0	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	130.0	65 - 135						

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Method Blank - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080122

Validated by: MaiChiTu - 01/23/08

QC Batch Analysis Date: 1/22/2008

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L
Surrogate for Blank	% Recovery	Control Limits		
4-Bromofluorobenzene	97.3	65 - 135		

LCS / LCSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080122

Reviewed by: MaiChiTu - 01/23/08

QC Batch ID Analysis Date: 1/22/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	120	120	µg/L	96.0	65 - 135
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	121.0	65 - 135				

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	120	120	µg/L	96.0	0.0	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	123.0	65 - 135						

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Method Blank - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080130

Validated by: MaiChiTu - 01/31/08

QC Batch Analysis Date: 1/30/2008

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L
Surrogate for Blank	% Recovery	Control Limits		
4-Bromofluorobenzene	97.8	65 - 135		

LCS / LCSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080130

Reviewed by: MaiChiTu - 01/31/08

QC Batch ID Analysis Date: 1/30/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	120	123	µg/L	98.4	65 - 135
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	123.0	65 - 135				

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	120	130	µg/L	104	5.5	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	125.0	65 - 135						

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1080121

Validated by: MaiChiTu - 01/22/08

QC Batch Analysis Date: 1/21/2008

Parameter	Result	DF	PQLR	Units
1,1,1,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,1-Trichloroethane	ND	1	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,2-Trichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethene	ND	1	0.50	µg/L
1,1-Dichloropropene	ND	1	0.50	µg/L
1,2,3-Trichlorobenzene	ND	1	5.0	µg/L
1,2,3-Trichloropropane	ND	1	5.0	µg/L
1,2,4-Trichlorobenzene	ND	1	5.0	µg/L
1,2,4-Trimethylbenzene	ND	1	5.0	µg/L
1,2-Dibromo-3-Chloropropane	ND	1	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichlorobenzene	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
1,2-Dichloropropane	ND	1	0.50	µg/L
1,3,5-Trimethylbenzene	ND	1	5.0	µg/L
1,3-Dichlorobenzene	ND	1	0.50	µg/L
1,3-Dichloropropane	ND	1	0.50	µg/L
1,4-Dichlorobenzene	ND	1	0.50	µg/L
1,4-Dioxane	ND	1	50	µg/L
2,2-Dichloropropane	ND	1	0.50	µg/L
2-Butanone (MEK)	ND	1	20	µg/L
2-Chlorotoluene	ND	1	5.0	µg/L
2-Hexanone	ND	1	20	µg/L
4-Chlorotoluene	ND	1	5.0	µg/L
4-Methyl-2-Pentanone(MIBK)	ND	1	20	µg/L
Acetone	ND	1	20	µg/L
Acetonitrile	ND	1	5.0	µg/L
Benzene	ND	1	0.50	µg/L
Bromobenzene	ND	1	0.50	µg/L
Bromochloromethane	ND	1	0.50	µg/L
Bromodichloromethane	ND	1	0.50	µg/L
Bromoform	ND	1	0.50	µg/L
Bromomethane	ND	1	0.50	µg/L
Carbon Disulfide	ND	1	0.50	µg/L
Carbon Tetrachloride	ND	1	0.50	µg/L
Chlorobenzene	ND	1	0.50	µg/L
Chloroethane	ND	1	0.50	µg/L
Chloroform	ND	1	0.50	µg/L
Chloromethane	ND	1	0.50	µg/L
cis-1,2-Dichloroethene	ND	1	0.50	µg/L
cis-1,3-Dichloropropene	ND	1	0.50	µg/L
Dibromochloromethane	ND	1	0.50	µg/L
Dibromomethane	ND	1	0.50	µg/L
Dichlorodifluoromethane	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Freon 113	ND	1	5.0	µg/L
Hexachlorobutadiene	ND	1	5.0	µg/L

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1080121

Validated by: MaiChiTu - 01/22/08

QC Batch Analysis Date: 1/21/2008

Parameter	Result	DF	PQLR	Units
Iodomethane	ND	1	5.0	µg/L
Isopropanol	ND	1	20	µg/L
Isopropylbenzene	ND	1	1.0	µg/L
Methylene Chloride	ND	1	20	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Naphthalene	ND	1	5.0	µg/L
n-Butylbenzene	ND	1	5.0	µg/L
n-Propylbenzene	ND	1	5.0	µg/L
Pentachloroethane	ND	1	0.50	µg/L
p-Isopropyltoluene	ND	1	5.0	µg/L
sec-Butylbenzene	ND	1	5.0	µg/L
Styrene	ND	1	0.50	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
tert-Butylbenzene	ND	1	5.0	µg/L
Tetrachloroethene	ND	1	0.50	µg/L
Tetrahydrofuran	ND	1	20	µg/L
Toluene	ND	1	0.50	µg/L
trans-1,2-Dichloroethene	ND	1	0.50	µg/L
trans-1,3-Dichloropropene	ND	1	0.50	µg/L
trans-1,4-Dichloro-2-butene	ND	1	5.0	µg/L
Trichloroethene	ND	1	0.50	µg/L
Trichlorofluoromethane	ND	1	0.50	µg/L
Vinyl Chloride	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L
Surrogate for Blank	% Recovery	Control Limits		
4-Bromofluorobenzene	112	60 - 130		
Dibromofluoromethane	101	60 - 130		
Toluene-d8	110	60 - 130		

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LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1080121

Reviewed by: MaiChiTu - 01/22/08

QC Batch ID Analysis Date: 1/21/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	19.9	µg/L	99.5	70 - 130
Benzene	<0.50	20	21.5	µg/L	108	70 - 130
Chlorobenzene	<0.50	20	20.2	µg/L	101	70 - 130
Methyl-t-butyl Ether	<1.0	20	20.7	µg/L	104	70 - 130
Toluene	<0.50	20	21.2	µg/L	106	70 - 130
Trichloroethene	<0.50	20	19.8	µg/L	99.0	70 - 130

Surrogate

	% Recovery	Control Limits
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4-Bromofluorobenzene	112.0	60 - 130
Dibromofluoromethane	101.0	60 - 130
Toluene-d8	107.0	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	20.0	µg/L	100	0.50	25.0	70 - 130
Benzene	<0.50	20	21.6	µg/L	108	0.46	25.0	70 - 130
Chlorobenzene	<0.50	20	20.4	µg/L	102	0.99	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	20.5	µg/L	102	0.97	25.0	70 - 130
Toluene	<0.50	20	21.3	µg/L	106	0.47	25.0	70 - 130
Trichloroethene	<0.50	20	20.1	µg/L	100	1.5	25.0	70 - 130

Surrogate

	% Recovery	Control Limits
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4-Bromofluorobenzene	113.0	60 - 130
Dibromofluoromethane	100.0	60 - 130
Toluene-d8	106.0	60 - 130

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MS / MSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1080121

Reviewed by: MaiChiTu - 01/22/08

QC Batch ID Analysis Date: 1/21/2008

MS Sample Spiked: 59238-001

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
1,1-Dichloroethene	ND	1	20	19.4	µg/L	1/21/2008	97.0	70 - 130
Benzene	ND	1	20	20.9	µg/L	1/21/2008	104	70 - 130
Chlorobenzene	ND	1	20	19.5	µg/L	1/21/2008	97.5	70 - 130
Methyl-t-butyl Ether	2.70	1	20	23.2	µg/L	1/21/2008	102	70 - 130
Toluene	0.640	1	20	21.4	µg/L	1/21/2008	104	70 - 130
Trichloroethene	ND	1	20	18.9	µg/L	1/21/2008	94.5	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	111.0	60 - 130
Dibromofluoromethane	105.0	60 - 130
Toluene-d8	110.0	60 - 130

MSD Sample Spiked: 59238-001

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	ND	1	20	19.4	µg/L	1/21/2008	97.0	0.0	25.0	70 - 130
Benzene	ND	1	20	20.9	µg/L	1/21/2008	104	0.0	25.0	70 - 130
Chlorobenzene	ND	1	20	20.3	µg/L	1/21/2008	102	4.0	25.0	70 - 130
Methyl-t-butyl Ether	2.70	1	20	23.2	µg/L	1/21/2008	102	0.0	25.0	70 - 130
Toluene	0.640	1	20	22.0	µg/L	1/21/2008	107	2.8	25.0	70 - 130
Trichloroethene	ND	1	20	19.1	µg/L	1/21/2008	95.5	1.1	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	111.0	60 - 130
Dibromofluoromethane	103.0	60 - 130
Toluene-d8	108.0	60 - 130

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1080124

Validated by: MaiChiTu - 01/25/08

QC Batch Analysis Date: 1/24/2008

Parameter	Result	DF	PQLR	Units
1,1,1,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,1-Trichloroethane	ND	1	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,2-Trichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethene	ND	1	0.50	µg/L
1,1-Dichloropropene	ND	1	0.50	µg/L
1,2,3-Trichlorobenzene	ND	1	5.0	µg/L
1,2,3-Trichloropropane	ND	1	5.0	µg/L
1,2,4-Trichlorobenzene	ND	1	5.0	µg/L
1,2,4-Trimethylbenzene	ND	1	5.0	µg/L
1,2-Dibromo-3-Chloropropane	ND	1	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichlorobenzene	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
1,2-Dichloropropane	ND	1	0.50	µg/L
1,3,5-Trimethylbenzene	ND	1	5.0	µg/L
1,3-Dichlorobenzene	ND	1	0.50	µg/L
1,3-Dichloropropane	ND	1	0.50	µg/L
1,4-Dichlorobenzene	ND	1	0.50	µg/L
1,4-Dioxane	ND	1	50	µg/L
2,2-Dichloropropane	ND	1	0.50	µg/L
2-Butanone (MEK)	ND	1	20	µg/L
2-Chlorotoluene	ND	1	5.0	µg/L
2-Hexanone	ND	1	20	µg/L
4-Chlorotoluene	ND	1	5.0	µg/L
4-Methyl-2-Pentanone(MIBK)	ND	1	20	µg/L
Acetone	ND	1	20	µg/L
Acetonitrile	ND	1	5.0	µg/L
Benzene	ND	1	0.50	µg/L
Bromobenzene	ND	1	0.50	µg/L
Bromochloromethane	ND	1	0.50	µg/L
Bromodichloromethane	ND	1	0.50	µg/L
Bromoform	ND	1	0.50	µg/L
Bromomethane	ND	1	0.50	µg/L
Carbon Disulfide	ND	1	0.50	µg/L
Carbon Tetrachloride	ND	1	0.50	µg/L
Chlorobenzene	ND	1	0.50	µg/L
Chloroethane	ND	1	0.50	µg/L
Chloroform	ND	1	0.50	µg/L
Chloromethane	ND	1	0.50	µg/L
cis-1,2-Dichloroethene	ND	1	0.50	µg/L
cis-1,3-Dichloropropene	ND	1	0.50	µg/L
Dibromochloromethane	ND	1	0.50	µg/L
Dibromomethane	ND	1	0.50	µg/L
Dichlorodifluoromethane	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Freon 113	ND	1	5.0	µg/L
Hexachlorobutadiene	ND	1	5.0	µg/L

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1080124

Validated by: MaiChiTu - 01/25/08

QC Batch Analysis Date: 1/24/2008

Parameter	Result	DF	PQLR	Units
Iodomethane	ND	1	5.0	µg/L
Isopropanol	ND	1	20	µg/L
Isopropylbenzene	ND	1	1.0	µg/L
Methylene Chloride	ND	1	20	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Naphthalene	ND	1	5.0	µg/L
n-Butylbenzene	ND	1	5.0	µg/L
n-Propylbenzene	ND	1	5.0	µg/L
Pentachloroethane	ND	1	0.50	µg/L
p-Isopropyltoluene	ND	1	5.0	µg/L
sec-Butylbenzene	ND	1	5.0	µg/L
Styrene	ND	1	0.50	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
tert-Butylbenzene	ND	1	5.0	µg/L
Tetrachloroethene	ND	1	0.50	µg/L
Tetrahydrofuran	ND	1	20	µg/L
Toluene	ND	1	0.50	µg/L
trans-1,2-Dichloroethene	ND	1	0.50	µg/L
trans-1,3-Dichloropropene	ND	1	0.50	µg/L
trans-1,4-Dichloro-2-butene	ND	1	5.0	µg/L
Trichloroethene	ND	1	0.50	µg/L
Trichlorofluoromethane	ND	1	0.50	µg/L
Vinyl Chloride	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L
Surrogate for Blank	% Recovery	Control Limits		
4-Bromofluorobenzene	118	60 - 130		
Dibromofluoromethane	95.5	60 - 130		
Toluene-d8	109	60 - 130		

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LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1080124

Reviewed by: MaiChiTu - 01/25/08

QC Batch ID Analysis Date: 1/24/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	19.4	µg/L	97.0	70 - 130
Benzene	<0.50	20	20.8	µg/L	104	70 - 130
Chlorobenzene	<0.50	20	20.1	µg/L	100	70 - 130
Methyl-t-butyl Ether	<1.0	20	19.1	µg/L	95.5	70 - 130
Toluene	<0.50	20	21.0	µg/L	105	70 - 130
Trichloroethene	<0.50	20	19.7	µg/L	98.5	70 - 130

Surrogate

Surrogate	% Recovery	Control Limits
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4-Bromofluorobenzene	109.0	60 - 130
Dibromofluoromethane	99.2	60 - 130
Toluene-d8	108.0	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	21.2	µg/L	106	8.9	25.0	70 - 130
Benzene	<0.50	20	23.2	µg/L	116	11	25.0	70 - 130
Chlorobenzene	<0.50	20	21.8	µg/L	109	8.1	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	20.7	µg/L	104	8.0	25.0	70 - 130
Toluene	<0.50	20	23.1	µg/L	116	9.5	25.0	70 - 130
Trichloroethene	<0.50	20	21.9	µg/L	110	11	25.0	70 - 130

Surrogate

Surrogate	% Recovery	Control Limits
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4-Bromofluorobenzene	106.0	60 - 130
Dibromofluoromethane	98.3	60 - 130
Toluene-d8	106.0	60 - 130

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Method Blank - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

QC/Prep Batch ID: WDA080122

Validated by: mtran - 01/23/08

QC/Prep Date: 1/22/2008

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L
Surrogate for Blank	% Recovery	Control Limits		
n-Hexacosane	89.8	50 - 150		

LCS / LCSD - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

QC Batch ID: WDA080122

Reviewed by: mtran - 01/23/08

QC/Prep Date: 1/22/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	794	µg/L	79.4	45 - 140
TPH as Motor Oil	<200	1000	675	µg/L	67.5	45 - 140
Surrogate	% Recovery	Control Limits				
n-Hexacosane	88.5	50 - 150				

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	809	µg/L	80.9	1.9	25.0	45 - 140
TPH as Motor Oil	<200	1000	686	µg/L	68.6	1.5	25.0	45 - 140
Surrogate	% Recovery	Control Limits						
n-Hexacosane	88.1	50 - 150						

