SDMS DOCID# 1121043

S/IC#383
2041500
SSA

Groundwater Monitoring Report, Semi-Annual – May 2004
(SLIC NO. 383)

Pacific Edge Engineering, Inc. Job Number 0199.0019.001

Pilot Chemical Company
11756 Burke Street
Santa Fe Springs, California

September 2004

Prepared for:

Pilot Chemical Company
11756 Burke Street
Santa Fe Springs, California

Prepared by:

Pacific Edge Engineering, Inc.
22772 Centre Drive, Suite 230
Lake Forest, California 92630

Craig A. Stolz, P.E.
Principal Engineer

PACIFIC EDGE ENGINEERING, INC.

September 30, 2004

Steven Hariri
Regional Water Quality Control Board – Los Angeles
320 West 4th Street, Suite 200
Los Angeles, California 90013

RE: SEMI-ANNUAL GROUNDWATER MONITORING REPORT, PILOT CHEMICAL COMPANY, SLIC NO. 383

Dear Mr. Hariri:

On behalf of Pilot Chemical Company, Pacific Edge Engineering, Inc. (Pacific Edge) is providing the attached semi-annual groundwater monitoring report for the site located at 11756 Burke Street, Santa Fe Springs, California. This semi-annual report is for the first event in 2004.

The next sampling event is scheduled for October 2004. If you have any questions, please call me at (949) 470-1937.

Sincerely,

Craig A. Stolz, P.E.
Principal Engineer

Cc: Ed Trainer – Pilot Chemical Company

N:\P\Pilot\0019.001.001\May 04 Groundwater\cover letter.doc

22772 Centre Drive, Suite 230, Lake Forest, CA 92630 • Tel: 949-470-1937 • Fax: 949-470-0943

TABLE OF CONTENTS

Section		Page
PROFESSIONAL CERTIFICATION		II
1.0	EXECUTIVE SUMMARY	1-1
2.0	INTRODUCTION	2-1
3.0	GROUNDWATER ELEVATION AND FLOW DIRECTION	3-1
4.0	GROUNDWATER SAMPLING AND ANALYSIS	4-1
4.1	pH – EPA METHOD 150.1	4-1
4.2	METHYL BLUE ACTIVE SUBSTANCES (MBAS) – EPA METHOD 425.1	4-1
4.3	HVOCs – EPA METHOD 601	4-2
4.4	VOCs – EPA METHOD 602	4-3
4.5	TOTAL PETROLEUM HYDROCARBONS AS DIESEL – LUFT METHOD	4-3
5.0	CONCLUSIONS	5-1

TABLES

Table 1	Historical Groundwater Elevation Data
Table 2	Historical Groundwater Analytical Results

FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Flow Direction
Figure 4	Total Xylene Distribution in Groundwater
Figure 5	1,2 Dichloroethane Distribution in Groundwater

APPENDICES

Appendix A	Groundwater Sampling Protocol and Field Notes
Appendix B	Laboratory Reports, Quality Control Reports, Chain-Of Custody
Appendix C	Disposal Manifest

PROFESSIONAL CERTIFICATION

Pacific Edge Engineering, Inc., under the professional supervision of Craig A. Stolz, has prepared this report. The findings, conclusions, specifications, and/or professional opinions presented in this report have been prepared in accordance with generally accepted professional engineering practice, and within the scope of the project. There is no other warranty, either expressed or implied.

Craig A. Stolz
P.E. No. C049756
Principal Engineer
Pacific Edge Engineering, Inc.

1.0 EXECUTIVE SUMMARY

This report presents the results of the May 2004 (semi-annual) groundwater sampling event at the Pilot Chemical Company, 11756 Burke Street, Santa Fe Springs, California. The semi-annual sampling event consists of sampling and measuring the water elevation of eleven wells located at the site. The purpose of this sampling and monitoring event is to update the water quality data and verify the direction of groundwater flow direction at the facility.

The May 2004 data indicate that the groundwater quality and the groundwater flow direction have not changed significantly when compared to previous sampling events. Chemical concentrations detected in monitoring wells are generally consistent with historical concentrations and trends.

The next semi-annual sampling event is planned for October 2004.

2.0 INTRODUCTION

This report presents the results of Pacific Edge's May 2004 semi-annual groundwater sampling and water elevation monitoring at the Pilot facility located at 11756 Burke Street in Santa Fe Springs, California. Figure 1 presents the facility location.

The site is approximately 4.3 acres in size. The site borders Burke Street on the north, Dice Road on the east, and industrial facilities on the west and south. A residential area is located northwest of the site. The site is used to manufacture detergent for industrial purposes and utilizes aboveground tanks and formerly used underground tanks as part of their operations. Aboveground tanks are located on the western portion of the site within containment areas and within the Old Warehouse, also within containment areas. The former underground storage tanks were used to store toluene, xylenes, and caustic materials. These tanks were located at the western portion of the property and were removed during the late 1980's.

Following the removal of the underground storage tanks several soil and groundwater investigations were conducted at the site. Clayton Environmental Consultants conducted the initial investigation in July 1988. Kleinfelder, Inc., and McLaren/Hart, Inc conducted subsequent investigations. The results of these investigations are found in the following reports:

1. Clayton Environmental Consultants, Inc., September 28, 1988, Soil Assessment and Preliminary Shallow Groundwater Investigation, Underground Xylene Storage Tank Cluster.
2. Kleinfelder, Inc., July 1991, Final Report Additional Subsurface Soil and Groundwater Assessment.
3. McLaren/Hart, Inc., October 1991, Subsurface Soil Investigation at the Former Underground Storage Tank Location.
4. McLaren/Hart, Inc., February 28, 1998, Former Storage Tank Farm Soil Investigation and Groundwater Sampling Report.

Quarterly or semi-annual groundwater monitoring has been conducted at the site since April 1991. This report presents the results of the first semi-annual event for 2004.

3.0 GROUNDWATER ELEVATION AND FLOW DIRECTION

On May 17, 2004, static water level measurements were measured in the eleven monitoring wells located at the facility using an electronic water interface probe. Figure 2 presents the facility site plan, which includes all monitor well locations. The water levels were measured to re-evaluate the direction of groundwater flow. The depth to groundwater and groundwater elevation data are presented in Table 1. Water level data from June 1995 through May 2004 are presented to provide the historic trend in water level.

As shown on Table 1, the groundwater elevation ranged from 96.10 feet above mean sea level (MSL) in downgraident well MW-9 to 97.76 feet MSL in well MW-11. The groundwater levels have generally decreased approximately 2.03 feet since the last event in October 2003.

Using the data presented in Table 1, a groundwater elevation contour map was plotted for the May 2004 event and is provided as Figure 3. The groundwater flow direction is to the southwest. The groundwater gradient is approximately 0.0040 feet per foot. The groundwater flow direction and gradient during this event are consistent with those of previous events.

4.0 GROUNDWATER SAMPLING AND ANALYSIS

On May 17 and May 19, 2004, groundwater samples were collected from the eleven monitoring wells at the facility. Samples were obtained using a Waterra Inertial Pump and dedicated poly tubing. Summaries of Pacific Edge's standard groundwater sampling protocols and field notes for this sampling event are provided as Appendix A. All groundwater samples were analyzed for the following compounds:

- Halogenated Volatile Organic Compounds (HVOCs) using EPA Method 601
- Aromatic Volatile Compounds (VOCs) using EPA Method 602
- Surfactants – MBAS using EPA Method 425.1
- pH using EPA Method 150.1
- Total Petroleum Hydrocarbons – diesel range (TPHd) by DHS LUFT Method.

A duplicate sample (DUP-1 collected from MW-8) was submitted to the laboratory for analysis of HVOCs and VOCs using EPA Methods 601 and 602.

Copies of the chain-of-custody forms and laboratory analytical reports are provided as Appendix B. Documentation for the proper disposal of purge water generated during this sampling event is provided as Appendix C. Laboratory results for this and previous events are summarized in Table 2.

4.1 pH – EPA METHOD 150.1

pH measurements ranged from 6.83 in MW-10 to 7.39 in MW-6. These results are consistent with historic data for pH.

4.2 METHYL BLUE ACTIVE SUBSTANCES (MBAS) – EPA METHOD 425.1

MBAS was detected in all monitoring wells. Detected MBAS concentrations at the site ranged from 0.23 milligrams per liter (mg/L) in MW-1 to 48.9 mg/L in MW-7. These MBAS results are consistent with historical results for the site.

4.3 HVOCs – EPA METHOD 601

Eight HVOCs were detected in groundwater samples collected during this sampling event. HVOCs detected during this sampling event include:

- 1,1-dichloroethane (1,1-DCA) was detected in well (MW-9) at a concentration of 13.5 micrograms per liter (ug/L). MW-9 is the most downgraident monitoring well. Historically, 1,1-DCA has been detected in well MW-9 at similar concentrations.
- 1,1-dichloroethene (1,1-DCE) was detected in wells MW-9 and MW-11 at concentrations of 1.5 ug/L and 1.0 ug/L, respectively. Historically, 1,1-DCE has been detected in these wells at similar concentrations.
- Tetrachloroethane (PCE) was detected in MW-4, MW-5, MW-7, MW-8, MW-9, and MW-11 at concentrations of 1.0 ug/L, 2.5 ug/L, 0.9 ug/L, 2.6 ug/L, 1.2 ug/L, and 14.9 ug/L, respectively. Historically, the highest PCE concentration has been detected in upgradient well MW-5, indicating an off-site source. The highest PCE concentration detected during this sample event occurred in well MW-11. Well MW-11 is the most easterly onsite well and could be the first well to detect contaminants migrating onsite when the flow direction is southwest, such as this sample event.
- Carbon Tetrachloride was detected in MW-5, MW-6, MW-7, and MW-8 at concentrations of 70.0 ug/L, 103 ug/L, 1.8 ug/L, and 8.0 ug/L, respectively. These results are consistent with historical data for these wells and indicate an off-site source for Carbon Tetrachloride.
- Chloroform was detected in wells MW-5, MW-6, MW-7, MW-8, MW-9, and MW-11 at concentrations of 34.5 ug/L, 70.0 ug/L, 3.10 ug/L, 12.1 ug/L, 1.4 ug/L, and 2.5 ug/L, respectively. These results are consistent with historical data for these wells and indicate an off-site source.
- 1,2-dichloroethane (1,2-DCA) was detected in wells MW-2, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, MW-10, and MW-11. 1,2-DCA concentrations ranged

from 6.0 ug/L in MW-5 to 2,600 ug/L in MW-10. These results are consistent with historical data for these wells. Figure 5 presents the distribution of 1,2 DCA in groundwater during this sampling event.

- Trichloroethene (TCE) was detected in MW-4, MW-5, MW-7, MW-8, MW-9, and MW-11 at concentrations of 2.2 ug/L, 2.5 ug/L, 1.6 ug/L, 1.3 ug/L, 79.3 ug/L, and 7.0 ug/L, respectively. These results are consistent with historical data for these wells.
- Cis-1,2 DCE was detected in MW-9 at a concentration of 3.7 ug/L. Cis-1,2 DCE is periodically detected in this well at similar concentrations.

4.4 VOCs – EPA METHOD 602

- Ethylbenzene was detected in MW-1, MW-2, MW-3, and MW-10 at concentrations of 31,500 ug/L, 5,500 ug/L, 5,280 ug/L, and 180 ug/L, respectively. These results are consistent with historical data for these wells.
- Toluene was detected in MW-1, MW-2, and MW-3 at a concentration of 95,000 ug/L, 35,400 ug/L, and 14,000, respectively. These results are consistent with historical data for these wells.
- Total Xylenes were detected in four of the eleven wells sampled. Total Xylene concentrations ranged from an estimated concentration of 480 ug/L in MW-10 to a concentration of 178,000 ug/L in MW-1. These results are consistent with historical data for these wells. Figure 4 presents the distribution of total xylenes in groundwater during this sampling event.

4.5 TOTAL PETROLEUM HYDROCARBONS AS DIESEL – LUFT METHOD

Total petroleum hydrocarbons (as diesel) were not detected in any of the wells. Total petroleum hydrocarbons within the carbon range of C13 – C22 was detected in the sample collected form MW-1 at a concentration of 38.7 micrograms per liter (mg/L). On occasion, low levels of TPH are detected in this well. The last detected concentration was 7.9 mg/l in May 1998.

5.0 CONCLUSIONS

Groundwater quality at the site remains consistent with previous sampling events. The following summarizes conclusions for the May 2004 semi-annual sampling event.

- pH measurements continue to indicate that groundwater beneath the site has not been impacted by caustic or corrosive material.
- Concentrations of all chemicals found in groundwater are generally consistent with historical data and trends.
- The groundwater elevation at the site has decreased approximately 2.03 feet since the last sampling and monitoring event in October 2003.
- The groundwater flow direction was measured to be toward the southwest, which is consistent with the historical flow direction when the water elevations are seasonably low.

Tables

TABLE 1
HISTORICAL GROUNDWATER ELEVATION DATA
PILOT CHEMICAL

Well Identification	Date Measured	Elevation[1] (feet)	Depth to Water[2] (feet)	Groundwater Elevation[3] (feet)
MW-1	6/22/1995	152.44[4]	35.39	117.05
	9/25/1995	152.44[4]	30.89	121.55
	12/19/1995	152.44[4]	36.25	116.19
	3/27/1996	152.44[4]	32.99	119.45
	1/21/1997	152.60[5]	35.62	116.98
	4/24/1997		33.64	118.96
	5/14/1997		33.50	119.10
	10/22/1997		37.01	115.59
	5/12/1998		32.54	120.06
	11/17/1998		34.82	117.78
	8/19/1999		40.71	111.89
	12/27/1999		49.84	102.76
	4/11/2000		43.42	109.18
	10/31/2000		43.13	109.47
	4/4/2001		41.02	111.58
	10/30/2001		45.42	107.18
	4/10/2002		42.76	109.84
	10/23/2002		51.20	101.40
	4/8/2003		45.17	107.43
	10/9/2003		53.67	98.93
	5/17/2004		55.45	97.15
MW-2	6/22/1995	153.45	33.08	120.37
	9/25/1995		35.59	117.86
	12/19/1995		39.52	113.93
	3/27/1996		35.72	117.73
	1/21/1997		36.55	116.90
	4/24/1997		34.75	118.70
	5/14/1997		34.88	118.57
	10/22/1997		38.39	115.06
	5/12/1998		33.52	119.93
	11/17/1998		37.54	115.91
	8/19/1999		41.58	111.87
	12/27/1999[6]		49.82	103.63
	4/11/2000		44.22	109.23
	10/31/2000		43.56	109.89
	4/4/2001		41.54	111.91
	10/30/2001		44.89	108.56
	4/10/2002		43.30	110.15
	10/23/2002		51.39	102.06
	4/8/2003		46.20	107.25
	10/9/2003		53.79	99.66
	5/17/2004		56.46	96.99

TABLE 1
HISTORICAL GROUNDWATER ELEVATION DATA
PILOT CHEMICAL

Well Identification	Date Measured	Elevation[1] (feet)	Depth to Water[2] (feet)	Groundwater Elevation[3] (feet)
MW-3	6/22/1995	153.70	33.39	120.31
	9/25/1995		35.96	117.74
	12/19/1995		39.99	113.71
	3/27/1996		36.13	117.57
	1/21/1997		37.31	116.39
	4/24/1997		35.25	118.45
	5/14/1997		35.28	118.42
	10/22/1997		39.12	114.58
	5/12/1998		34.31	119.39
	11/18/1998		38.10	115.60
	8/19/1999		42.11	111.59
	12/27/1999		51.34	102.36
	4/11/2000		45.16	108.54
	10/31/2000		44.75	108.95
	4/4/2001		42.67	111.03
	10/30/2001		46.94	106.76
	4/10/2002		44.36	109.34
	10/23/2002		52.56	101.14
	4/8/2003		46.90	106.80
	10/9/2003		54.97	98.73
	5/17/2004		57.08	96.62
MW-4	6/22/1995	155.18	34.92	120.26
	9/25/1995		37.48	117.70
	12/19/1995		41.49	113.69
	3/27/1996		37.56	117.62
	1/21/1997		38.85	116.33
	4/24/1997		36.82	118.36
	5/14/1997		36.81	118.37
	10/22/1997		40.65	114.53
	5/12/1998		35.82	119.36
	11/17/1998		39.65	115.53
	8/19/1999		43.63	111.55
	12/27/1999		52.84	102.34
	4/11/2000		46.72	108.46
	10/31/2000		46.29	108.89
	4/4/2001		44.22	110.96
	10/30/2001		48.48	106.70
	4/10/2002		45.89	109.29
	10/23/2002		54.13	101.05
	4/8/2003		48.46	106.72
	10/9/2003		56.48	98.70
	5/17/2004		58.60	96.58

TABLE 1
HISTORICAL GROUNDWATER ELEVATION DATA
PILOT CHEMICAL

Well Identification	Date Measured	Elevation[1] (feet)	Depth to Water[2] (feet)	Groundwater Elevation[3] (feet)
MW-5	6/22/1995	151.70	30.28	121.42
	9/25/1995		33.26	118.44
	12/19/1995		36.92	114.78
	3/27/1996		31.99	119.71
	1/21/1997		33.91	117.79
	4/24/1997		33.85	117.85
	5/14/1997		32.19	119.51
	10/22/1997		36.11	115.59
	5/12/1998		31.02	120.68
	11/17/1998		35.14	116.56
	8/20/1999		39.42	112.28
	12/27/1999		48.60	103.10
	4/11/2000		41.80	109.90
	10/31/2000		41.52	110.18
	4/4/2001		39.37	112.33
	10/30/2001		43.96	107.74
	4/10/2002		41.17	110.53
	10/23/2002		49.55	102.15
	4/8/2003		43.51	108.19
	10/9/2003		52.26	99.44
	5/17/2004		54.03	97.67
MW-6	6/22/1995	151.77	30.49	121.28
	9/25/1995		33.36	118.41
	12/19/1995		37.16	114.61
	3/27/1996		33.16	118.61
	1/21/1997		34.21	117.56
	4/24/1997		34.19	117.58
	5/14/1997		32.40	119.37
	10/22/1997		36.31	115.46
	5/12/1998		31.26	120.51
	11/17/1998		35.39	116.38
	8/20/1999		39.59	112.18
	12/27/1999		48.78	102.99
	4/11/2000		42.07	109.70
	10/31/2000		41.78	109.99
	4/4/2001		39.63	112.14
	10/30/2001		44.17	107.60
	4/10/2002		41.42	110.35
	10/23/2002		49.76	102.01
	4/8/2003		43.75	108.02
	10/9/2003		52.42	99.35
	5/17/2004		54.24	97.53

TABLE 1
HISTORICAL GROUNDWATER ELEVATION DATA
PILOT CHEMICAL

Well Identification	Date Measured	Elevation[1] (feet)	Depth to Water [2] (feet)	Groundwater Elevation[3] (feet)
MW-7	6/22/1995	153.28	32.32	120.96
	9/25/1995		35.04	118.24
	12/19/1995		38.96	114.32
	3/27/1996		34.96	118.32
	1/21/1997		36.11	117.17
	4/24/1997		34.11	119.17
	5/14/1997		34.19	119.09
	10/22/1997		38.12	115.16
	5/12/1998		33.11	120.17
	11/17/1998		37.02	116.26
	8/19/1999		41.19	112.09
	12/27/1999		50.45	102.83
	4/11/2000		43.93	109.35
	10/31/2000		43.61	109.67
	4/4/2001		41.47	111.81
	10/30/2001		45.94	107.34
	4/10/2002		43.26	110.02
	10/23/2002		51.53	101.75
	4/8/2003		45.68	107.60
	10/9/2003		54.10	99.18
	5/17/2004		56.01	97.27
MW-8	6/22/1995	151.55	38.88	112.67
	9/25/1995		33.56	117.99
	12/19/1995		37.50	114.05
	3/27/1996		33.59	117.96
	1/21/1997		34.65	116.90
	4/24/1997		34.60	116.95
	5/14/1997		32.75	118.80
	10/22/1997		36.62	114.93
	5/12/1998		31.71	119.84
	11/17/1998		35.70	115.85
	8/20/1999		39.82	111.73
	12/27/1999		48.95	102.60
	4/11/2000		42.55	109.00
	10/31/2000		42.21	109.34
	4/4/2001		40.08	111.47
	10/30/2001		44.46	107.09
	4/10/2002		41.82	109.73
	10/23/2002		50.09	101.46
	4/8/2003		44.29	107.26
	10/9/2003		52.60	98.95
	5/17/2004		54.58	96.97

TABLE 1
HISTORICAL GROUNDWATER ELEVATION DATA
PILOT CHEMICAL

Well Identification	Date Measured	Elevation[1] (feet)	Depth to Water[2] (feet)	Groundwater Elevation[3] (feet)
MW-9	6/22/1995	151.60	31.72	119.88
	9/25/1995		34.26	117.34
	12/19/1995		38.42	113.18
	3/27/1996		34.50	117.10
	1/21/1997		35.75	115.85
	4/24/1997		33.60	118.00
	5/14/1997		33.61	117.99
	10/22/1997		37.41	114.19
	5/12/1998		32.71	118.89
	11/17/1998		36.48	115.12
	8/19/1999		40.40	111.20
	12/27/1999		49.68	101.92
	4/11/2000		43.60	108.00
	10/31/2000		43.19	108.41
	4/4/2001		41.08	110.52
	10/30/2001		45.33	106.27
	4/10/2002		42.76	108.84
	10/23/2002		50.98	100.62
	4/8/2003		45.38	106.22
	10/9/2003		53.30	98.30
	5/17/2004		55.50	96.10
MW-10	6/22/1995	153.16	32.32	120.84
	9/25/1995		34.98	118.18
	12/19/1995		38.92	114.24
	3/27/1996		34.92	118.24
	1/21/1997		55.35[6]	97.81
	4/24/1997		34.10	119.06
	5/14/1997		34.11	119.05
	10/22/1997		37.98	115.18
	5/12/1998		33.12	120.04
	11/17/1998		36.98	116.18
	8/19/1999		41.12	112.04
	12/27/1999		50.31	102.85
	4/11/2000		43.83	109.33
	10/31/2000		43.50	109.66
	4/4/2001		41.41	111.75
	10/30/2001		45.81	107.35
	4/10/2002		43.16	110.00
	10/23/2002		51.39	101.77
	4/8/2003		45.72	107.44
	10/9/2003		53.98	99.18
	5/17/2004		55.84	97.32

TABLE 1
HISTORICAL GROUNDWATER ELEVATION DATA
PILOT CHEMICAL

Well Identification	Date Measured	Elevation[1] (feet)	Depth to Water [2] (feet)	Groundwater Elevation[3] (feet)
MW-11	6/22/1995	152.48	31.49	120.99
	9/25/1995		33.96	118.52
	12/19/1995		37.63	114.85
	3/27/1996		33.85	118.63
	1/21/1997		34.92	117.56
	4/24/1997		35.21	117.27
	5/14/1997		33.17	119.31
	10/22/1997		36.94	115.54
	5/12/1998		32.31	120.17
	11/17/1998		36.10	116.38
	8/19/1999		40.02	112.46
	12/27/1999		48.93	103.55
	4/11/2000		42.79	109.69
	10/31/2000		42.33	110.15
	4/4/2001		40.36	112.12
	10/30/2001		44.60	107.88
	4/10/2002		42.08	110.40
	10/23/2002		50.08	102.40
	4/8/2003		44.55	107.93
	10/9/2003		52.59	99.89
	5/17/2004		54.72	97.76

Notes:

1 mean sea level elevation - top of well casing.

2 depth of water from top of well casing.

3 mean sea level elevation - groundwater table

4 elevation of original monitor well MW-1; calculated groundwater elevations are approximate.

5 surveyed elevation of replacement well MW-1

6 suspect measurement

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PILOT CHEMICAL COMPANY
SANTA FE SPRINGS, CALIFORNIA

Monitoring Well	Date	TPH (mg/L)	pH units	MBAS (mg/L)	1,1-DCA (ug/L)	1,1-DCE (ug/L)	PCE (ug/L)	Carbon Tetrachloride (ug/L)	Chloroform (ug/L)	1,2 DCA (ug/L)	TCE (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)
	Apr-91		7.39	0.80				NA [1]	NA	NA	NA	ND [2] (2,500) [3]	3,600	18,000	12,000
	Jan-94		7.0	0.90				ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	9,700	52,000	59,000
	Apr-94		7.5	6.0	ND (25)		ND (25)	ND (25)	68	910	ND (25)	ND (5,000)	29,000	220,000	130,000
	Jul-94		7.2	7.5	ND (20)		ND (20)	28	48	870	ND (20)	ND (5,000)	9,300	26,000	40,000
	Nov-94		NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
	Jun-95	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	Sep-95	15.0	7.0	60	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	4,200	ND (250)	ND (250)	48,000	56,000	319,000
	Dec-95	7.2	7.2	170	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	2,600	ND (50)	ND (5,000)	40,000	55,000	224,000
	Mar-96	16.0	7.1	29	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	3,200	ND (250)	ND (5,000)	58,000	85,000	282,000
	Jan-97	15.0	6.95	72	ND (50)	ND (50)	ND (50)	ND (50)	51	3,700	ND (50)	ND (5,000)	34,000	96,000	200,000
	Apr-97	19.0	7.11	25	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	3,300	ND (50)	ND (5,000)	48,000	73,000	310,000
	Oct-97	6.5	6.85	33	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	3,700	ND (50)	52	23,000	65,000	110,000
	May-98	7.9	7.01	18	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	2,200	ND (250)	ND (250)	35,000	110,000	200,000
	Nov-98	ND (1.0)	7.1	400	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	2,700	ND (250)	ND (250)	47,000	44,000	340,000
	Aug-99	ND(0.5)	7.25	11.9	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	760	ND (25)	68	20,200	57,000	85,300
	Dec-99	ND(0.5)	7.00	5.72	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	700	ND (250)	ND (250)	19,800	71,000	96,900
	Apr-00	ND(0.5)	7.21	6.22	ND (500)	ND (500)	ND (500)	ND (500)	736.0	670	ND (500)	ND (500)	22,600	71,300	116,500
	Oct-00	ND(0.5)	7.19	4.75	568.0	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	23,100	77,500	74,100
	Apr-01	ND(0.5)	7.23	4.40	ND (500)	ND (500)	ND (500)	ND (500)	243J	430J	ND (500)	ND (500)	15,800	51,100	51,300
	Oct-01	ND (0.5)	7.15	5.57	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	138,000	227,000
	Apr-02	ND (0.5)	7.15	8.60	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	16,900	56,100	91,900
	Oct-02	ND (0.5)	7.06	9.70	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	500	ND (500)	ND (500)	24,200	84,800	129,000
	Apr-03	ND (0.5)	7.06	36.70	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	15,300	52,300	84,400
	Oct-03	ND (0.5)	7.08	42.5	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	52,000	89,500
	May-04	38.7	6.97	48.9	ND (1,250)	ND (1,250)	ND (1,250)	ND (1,250)	ND (1,250)	ND (1,250)	ND (1,250)	ND (1,250)	31,500	95,000	178,000
	Apr-91		7.29	0.20				NA	NA	NA	NA	ND (500)	970	7,500	4,000
	Jan-94		7.3	1.50				ND (130)	ND (130)	ND (130)	ND (130)	ND (130)	590	1,700	3,500
	Apr-94		7.7	1.20	ND (5)		ND (5)	ND (5)	ND (5)	400 [4]	ND (5)	ND (500)	12,000	29,000	47,600
	Jul-94		7.7	11	ND (20)		ND (20)	ND (20)	ND (20)	360	ND (20)	ND (250)	13,000	12,000	20,600
	Nov-94		6.7	0.68	ND (1,330)		ND (1,330)	ND (1,330)	ND (1,330)	1,600	ND (1,330)	ND (1,300)	9,300	73,000	44,000
	Jun-95	ND (0.5)	7.2	6.70	ND (50)		ND (50)	ND (50)	1,800	ND (50)	ND (50)	ND (5,000)	3,700	61,000	27,800
MW-2	Sep-95	0.70	7.1	11	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	2,300	ND (500)	ND (50)	2,300	29,000	12,600
	Dec-95	0.77	7.2	11	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	1,600	ND (50)	ND (500)	9,200	86,000	41,700
	Mar-96	ND (0.5)	7.3	8.20	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	1,300	ND (50)	ND (500)	6,200	41,000	22,400
	Jan-97	1.3	6.82	69	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	4,400	ND (50)	ND (5,000)	14,000	140,000	81,000
	Apr-97	1.9	6.94	1.90	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	3,900	ND (50)	ND (5,000)	13,000	140,000	87,000
	Oct-97	0.94	6.70	0.53	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	5,500	ND (500)	ND (500)	15,000	180,000	63,000
	May-98	0.43	7.03	1.10	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	1,600	ND (500)	ND (500)	6,100	120,000	30,000
	Nov-98	1.0	7.2	38	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	1,900	ND (250)	ND (250)	8,500	62,000	44,000
	Aug-99	ND (0.5)	6.97	13.8	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	2,500	ND (25)	ND (25)	6,600	46,500	28,700
	Dec-99	ND (0.5)	7.10	1.75	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	1,970	ND (50)	ND (50)	5,260	39,300	23,800
	Apr-00	ND (0.5)	7.14	2.79	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	1,450	ND (50)	ND (50)	4,300	31,900	19,820
	Oct-00	ND (0.5)	7.04	3.52	3,270	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	10,500	81,800	30,500
	Apr-01	ND (0.5)	7.22	3.95	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	574	ND (50)	ND (50)	3,360	20,000	9,310
	Oct-01	ND (0.5)	7.03	0.32	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1,870	ND (0.5)	ND (0.5)	ND (0.5)	94,100	7,260
	Apr-02	ND (0.5)	7.02	6.68	ND (1,000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (1,000)	1,374	ND (1,000)	ND (1,000)	6,230	52,500	34,800
	Oct-02	ND (0.5)	6.78	9.99	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	3,660	ND (500)	ND (500)	12,600	107,000	63,500
	Apr-03	ND (0.5)	6.97	20.80	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	2,080	ND (500)	ND (500)	5,710	47,400	27,600
	Oct-03	ND (0.5)	6.89	30.20	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	2,200	ND (250)	ND (250)	6,800	55,500	33,400
	May-04	ND (0.5)	7.20	4.72	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	650	ND (250)	ND (250)	5,500	35,400	25,500

Monitoring Well	Date	TPH (mg/L)	pH units	MBAS (mg/L)	1,1-DCA (ug/L)	1,1-DCE (ug/L)	PCE (ug/L)	Carbon Tetrachloride (ug/L)	Chloroform (ug/L)	1,2-DCA (ug/L)	TCE (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)
MW-3	Apr-91		7.17	2.00				NA	NA	NA	NA	ND (13,000)	14,000	110,000	52,000
	Jan-94		6.9	1.10				ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	15,000	24,000	68,000
	Apr-94		7.4	6.60	ND (5)		ND (5)	9.2	5.1	16	ND (5)	ND (500)	14,000	21,000	25,500
	Jul-94		7.0	10	ND (20)		ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (100)	6,500	2,800	2,360
	Nov-94		6.7	0.46	ND (250)		ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	11,000	12,000	8,900
	Jun-95	ND(0.5)	7.0	5	ND (0.5)		ND (0.5)	ND (0.5)	ND (0.5)	19	ND (0.5)	ND (500)	7,800	7,400	6,900
	Sep-95	0.65	6.9	11	ND (5)	ND (5)	ND (5)	15	ND (5)	52	ND (5)	8.2	7,200	1,200	15,500
	Dec-95 [5]	0.88	7.1	5	ND (5)	ND (5)	ND (5)	28	13	220	ND (5)	ND (500)	3,900	47,000	44,900
	Mar-96	0.93	7.2	9.20	ND (5)	ND (5)	8.7	14	7.8	26	ND (5)	ND (500)	10,000	21,000	29,800
	Jan-97	0.76	7.03	14	ND (5)	ND (5)	ND (5)	7.0	6.4	25.0	ND (5)	ND (500)	11,000	12,000	32,000
	Apr-97	1.70	6.85	9	ND (0.5)	ND (0.5)	ND (0.5)	5.1	2.4	38.0	1.2	8.7	5,500	2,800	5,600
	Oct-97	0.34	6.86	6.90	ND (13)	ND (13)	ND (13)	ND (13)	ND (13)	130	ND (13)	ND (13)	6,800	4,400	5,000
	May-98	ND (0.5)	7.23	1.50	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	460	1,100	1,800
	Nov-98	0.68	7.20	4.10	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	77	ND (50)	ND (50)	4,600	15,000	20,000
	Aug-99	ND (0.5)	7.26	3.30	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	52	ND (5)	ND (5)	2,730	5,210	9,480
	Dec-99	ND (0.5)	7.30	2.11	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	70	ND (50)	ND (50)	3,100	12,200	10,720
	Apr-00	ND (0.5)	7.28	2.77	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	155	ND (50)	ND (50)	5,600	25,800	20,830
	Oct-00	ND (0.5)	7.33	2.16	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	51	ND (50)	ND (50)	4,620	11,000	11,100
	Apr-01	ND (0.5)	7.34	1.28	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	45J	ND (50)	ND (50)	4,670	7,340	11,680
	Oct-01	ND (0.5)	7.32	1.32	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	18,200	35,500
	Apr-02	ND (0.5)	7.08	3.03	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	3,170	10,300	15,900
	Oct-02	ND (0.5)	7.11	3.02	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	4,030	7,670	13,700
	Apr-03	ND (0.5)	7.20	2.41	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	7,400	12,400	32,700
	Oct-03	ND (0.5)	7.21	3.69	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	55.0	ND (50)	ND (50)	3,610	8,000	14,500
	May-04	ND (0.5)	7.16	4.61	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	140.0	ND (100)	ND (100)	5,280	14,000	19,800
MW-4	Apr-91		NA	NA				NA	NA	NA	NA	NA	NA	NA	NA
	Jan-94		7.2	ND (0.5)				ND (0.5)	ND (0.5)	ND (0.5)	1.4	ND (0.5)	7.5	29	31
	Apr-94		7.5	0.058	ND (0.5)		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	2.5	ND (5)	37	210	116
	Jul-94		7.3	1.60	ND (0.5)		1.0	ND (0.5)	ND (0.5)	ND (0.5)	5.4	ND (0.5)	13	52	33
	Nov-94		6.8	0.10	ND (5)		ND (5)	ND (5)	ND (5)	6.8	ND (5)	ND (5)	83	200	180
	Jun-95	ND(0.5)	7.3	0.04	ND(0.5)		0.91	ND (0.5)	ND (0.5)	2.7	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
	Sep-95	0.58	7.0	0.66	0.82	ND (0.5)	0.98	ND (0.5)	ND (0.5)	2.1	3.1	6.0	66	180	154
	Dec-95	0.82	7.2	2.10	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	76	6.2	ND (500)	9,200	19,000	38,100
	Mar-96 [7]	ND (0.5)	7.4	0.21	ND (0.5)	ND (0.5)	4.8	1.20	ND (0.5)	11	1.2	ND (0.5)	54 [4]	110 [4]	196 [4]
	Jan-97	ND (0.5)	6.95	ND (.10)	0.52	ND (0.5)	1.2	ND (0.5)	ND (0.5)	27	2.3	ND (5)	49	51	330
	Apr-97	ND (0.05)	7.02	0.28	ND (0.5)	ND (0.5)	1.3	ND (0.5)	ND (0.5)	17	3.0	ND (0.5)	8.7	4.8	10
	Oct-97	ND (0.05)	6.6	0.15	ND (0.5)	ND (0.5)	1.3	ND (0.5)	ND (0.5)	21	3.1	ND (0.5)	28	19	26
	May-98	ND (0.05)	7.48	0.33	ND (0.5)	ND (0.5)	1.7	ND (0.5)	ND (0.5)	14	3.1	ND (0.5)	5.5	1.4	5.8
	Nov-98	ND (0.05)	7.4	0.27	ND (0.5)	ND (0.5)	1.4	0.78	0.56	8.4	2.2	ND (0.5)	270	49	93
	Aug-99	ND (0.5)	7.34	0.30	ND (0.5)	ND (0.5)	1.0	ND (0.5)	ND (0.5)	16.6	1.9	ND (0.5)	93.8	117	83.6
	Dec-99	ND (0.5)	7.41	0.23	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	10.9	2.2	ND (0.5)	6.9	ND (0.5)	3.5
	Apr-00	ND (0.5)	7.41	0.26	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	11.2	ND (0.5)	ND (0.5)	15.3	43	47
	Oct-00	ND (0.5)	7.39	0.25	ND (0.5)	ND (0.5)	1.1	ND (0.5)	ND (0.5)	1.4	2.1	ND (0.5)	43.4	21.4	17.7
	Apr-01	ND (0.5)	7.40	0.19	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	8.0	ND (5)	ND (5)	105.0	403.0	195.0
	Oct-01	ND (0.5)	7.38	ND (0.05)	ND (0.5)	ND (0.5)	1.0	ND (0.5)	ND (0.5)	ND (0.5)	1.0	ND (0.5)	ND (0.5)	ND (0.5)	2.5
	Apr-02	ND (0.5)	7.38	0.10	ND (0.5)	ND (0.5)	0.7	ND (0.5)	ND (0.5)	2.1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-02	ND (0.5)	7.32	0.12	ND (0.5)	ND (0.5)	1.0	ND (0.5)	ND (0.5)	5.4	2.1	ND (0.5)	4.50	ND (0.5)	3.30
	Apr-03	ND (0.5)	7.34	0.11	ND (0.5)	ND (0.5)	1.1	ND (0.5)	ND (0.5)	ND (0.5)	2.9	ND (0.5)	ND (0.5)	32.70	26.80
	Oct-03	ND (0.5)	7.27	0.38	ND (0.5)	ND (0.5)	0.68	ND (0.5)	0.58	19.9	1.16	ND (0.5)	ND (0.5)	ND (0.5)	1.49
	May-04	ND (0.5)	7.28	0.55	ND (0.5)	ND (0.5)	1.00	ND (0.5)	ND (0.5)	27.9	2.20	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)

Monitoring Well	Date	TPH (mg/L)	pH units	MBAS (mg/L)	1,1 DCA (ug/L)	1,1-DCE (ug/L)	PCE (ug/L)	Carbon Tetrachloride (ug/L)	Chloroform (ug/L)	1,2 DCA (ug/L)	TCE (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)
	Apr-91		7.28	0.2				NA	NA	NA	NA	3.2	ND (0.5)	1.2	ND (1)
	Jan-94		7.3	1.5				660	120	ND (10)	ND (10)	ND (10)	ND (10)	18	44
	Apr-94		7.6	0.57	ND (2.5)		ND (2.5)	470 [4]	120	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
	Jul-94		7.5	4.10	ND (5)		ND (5)	370 [4]	98	88	ND (5)	ND (5)	110	370 [4]	286
	Nov-94		7.3	0.95	ND (25)		ND (25)	900	320	26	ND (25)	ND (25)	ND (25)	35	ND (75)
	Jun-95	ND(0.5)	7.5	0.73	ND(5)		ND(5)	460 [4]	230	ND (5)	ND (5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
MW-5	Sep-95 [6]	ND(0.5)	7.4	1.7	ND (5)	ND (5)	ND (5)	520	280	ND (5)	ND (5)	ND (0.5)	14	61	50.5
	Dec-95	ND(0.5)	7.6	1.9	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)
	Mar-96	ND (0.5)	7.7	1.4	ND (5)	ND (5)	ND (5)	340	160	ND (5)	ND (5)	ND (0.5)	3.5	3.6	16.5
	Jan-97	ND (0.5)	7.4	5	ND (5)	ND (5)	ND (5)	750	310	ND (5)	ND (5)	ND (0.5)	12	5.9	79
	Apr-97	0.29	7.38	4.8	ND (5)	ND (5)	ND (5)	930	330	ND (5)	ND (5)	ND (0.5)	ND (0.5)	2.8	4.6
	Oct-97 [10]	0.56	7.2	1.1	ND (2.5)	ND (2.5)	7.7	1,400	560	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (7.5)
	May-98	ND (0.5)	7.47	0.81	ND (0.5)	ND (0.5)	3.3	490	120	ND (0.5)	2.3	ND (0.5)	1.0	0.86	5.2
	Nov-98	ND (0.5)	7.5	1.4	ND (0.5)	ND (0.5)	3.1	390	130	ND (0.5)	1.2	ND (0.5)	ND (0.5)	ND (0.5)	1.7
	Aug-99	ND (0.5)	7.34	2.37	ND (5)	ND (5)	ND (5)	483	218	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)
	Dec-99	ND (0.5)	7.37	1.36	ND (5)	ND (5)	ND (5)	385	137	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)
	Apr-00	ND (0.5)	7.40	1.00	ND (5)	ND (5)	17.00	316	126	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)
	Oct-00	ND (0.5)	7.42	1.02	ND (5)	ND (5)	11.0	179	82	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)
	Apr-01	ND (0.5)	7.45	1.18	ND (0.5)	ND (0.5)	4.2	199	97	ND (0.5)	1.50	ND (0.5)	ND (0.5)	ND (0.5)	ND (1)
	Oct-01	ND (0.5)	7.36	1.13	ND (0.5)	ND (0.5)	ND (0.5)	185	86	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-02	ND (0.5)	7.39	1.45	ND (2.5)	ND (2.5)	3.0	151	73	ND (2.5)	ND (2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5.0)
	Oct-02	ND (0.5)	7.37	0.76	ND (5)	ND (5)	ND (5)	173	70	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)
	Apr-03	ND (0.5)	7.34	0.53	ND (0.55)	ND (0.5)	3.4	ND (0.5)	49	ND (0.5)	2.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-03	ND (0.5)	7.35	1.73	ND (2.5)	ND (2.5)	3.4	1.84	82	ND (2.5)	.71J	ND (2.5)	.89J	ND (2.5)	1.1J
	May-04	ND (0.5)	7.37	0.25	ND (2.5)	ND (2.5)	2.5	70.0	34.5	6.0	2.5	ND (2.5)	ND (2.5)	ND (2.5)	ND (5.0)
	Apr-91		7.27	ND (0.1)				NA	NA	NA	NA	0.61	ND (0.5)	ND (0.5)	ND (1)
	Jan-94		7.4	1.1				49	25	7.1	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (3.8)
	Apr-94		7.6	1.4	ND (0.5)		0.74	39 [4]	25 [4]	ND (0.5)	1.4 [4]	ND (0.5)	0.67	ND (0.5)	0.6
	Jul-94		7.6	0.7	ND (0.5)		0.65	38 [4]	28	ND (0.5)	1.5	ND (0.5)	21	42 [4]	50 [4]
	Nov-94		7.5	1.4	ND (1.0)		ND (1.0)	38	21	7.9	1.0	ND (1.0)	6.7	30	22
	Jun-95	ND(0.5)	7.5	0.48	ND(5)		ND(5)	110	36	ND (5)	ND (5)	ND (0.5)	ND (0.5)	ND (0.5)	0.72
MW-6	Sep-95	ND(0.5)	7.5	1	ND (5)	ND (5)	ND (5)	150	66	13	ND (5)	ND (0.5)	26	89	17
	Dec-95	ND(0.5)	7.6	2.7	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)
	Mar-96 [8]	ND (0.5)	7.6	2.2	ND (0.5)	ND (0.5)	3.50	270	120	24	0.88	ND (0.5)	3.6	4.2	16.6
	Jan-97	ND (0.5)	7.56	2.5	ND (5)	ND (5)	ND (5)	81	99	14	ND (5)	ND (0.5)	ND (0.5)	ND (0.5)	4.1
	Apr-97	0.61	7.49	0.54	ND (5)	ND (5)	ND (5)	91	130	20	ND (5)	ND (0.5)	ND (0.5)	ND (0.5)	6.7
	Oct-97 [11]	0.21	7.03	3.1	ND (0.5)	ND (0.5)	1.3	55	210	33	0.65	ND (0.5)	ND (0.5)	ND (0.5)	3.4
	May-98 [12]	0.17	7.43	0.81	ND (0.5)	ND (0.5)	2.3	130	47	ND (0.5)	4.5	ND (0.5)	2.4	0.6	8.3
	Nov-98	0.45	7.4	2	ND (0.5)	ND (0.5)	2.6	81	79	21	1.7	0.65	ND (0.5)	ND (0.5)	ND (1.5)
	Aug-99	ND (0.5)	7.21	4.46	ND (2.5)	ND (2.5)	ND (2.5)	183	143	36	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (5)
	Dec-99	ND (0.5)	7.31	1.57	ND (5)	ND (5)	ND (5)	291	177	23	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)
	Apr-00	ND (0.5)	7.36	2.67	ND (0.5)	ND (0.5)	2.00	105	76	15.9	1.30	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-00	ND (0.5)	7.38	1.76	ND (0.5)	ND (0.5)	2.10	48.6	47.4	14.9	1.50	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-01	ND (0.5)	7.40	1.47	ND (0.5)	ND (0.5)	2.50	40.7	50.1	16.4	1.50	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-01 [19]	ND (0.5)	7.30	2.80	ND (0.5)	ND (0.5)	23.0	111.0	90.0	20.0	302.0	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-02	ND (0.5)	7.33	1.70	ND (0.5)	ND (0.5)	2.0	26.4	27.0	9.1	1.0	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-02	ND (0.5)	7.31	1.30	ND (2.5)	ND (2.5)	ND (2.5)	60.0	48.0	8.0	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (5)
	Apr-03	ND (0.5)	7.34	0.77	ND (0.5)	ND (0.5)	2.7	37.3	34.9	ND (0.5)	2.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-03	ND (0.5)	7.32	2.88	ND (2.5)	ND (2.5)	2.3J	77.0	71.0	11.0	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (5.0)
	May-04	ND (0.5)	7.39	1.02	ND (2.5)	ND (2.5)	ND (2.5)	103.0	70.0	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (5.0)

TABLE 2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PILOT CHEMICAL COMPANY
SANTA FE SPRINGS, CALIFORNIA

Monitoring Well	Date	TPH (mg/L)	pH units	MBAS (mg/L)	1,1-DCA (ug/L)	1,1-DCE (ug/L)	PCE (ug/L)	Carbon Tetrachloride (ug/L)	Chloroform (ug/L)	1,2 DCA (ug/L)	TCE (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)
	Apr-91		7.44	ND (0. 1)				NA	NA	NA	NA	ND (2)	4.7	6.1	ND (4)
	Jan-94		6.9	ND (0.5)				11	11	24	2.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.5)
	Apr-94		7.5	0.53	ND (0.5)		ND (0.5)	8.9 [4]	11	494	1.6	ND (0.5)	1.6	4.7	3.76
	Jul-94		7.4	1.2	ND (0.5)		ND (0.5)	7.4	6.6	54	1.6	ND (0.5)	9.2	22	27.5
	Nov-94		6.8	1.5	ND (25)		ND (25)	51	44	1,100	ND (25)	ND (25)	ND (25)	420	100
	Jun-95	ND (0.5)	7.4	0.17	ND (0.5)		ND (0.5)	4.6	6.6	68 [4]	ND (0.5)	ND (5)	200	230	520
MW-7	Sep-95	ND (0.5)	7.4	0.5	ND (0.5)	ND (0.5)	0.61	8.8	8.8	65	2.6	ND (0.5)	30	26	32.2
	Dec-95	ND (0.5)	7.6	3.8	ND (5)	ND (5)	ND (5)	18	11	310	ND (5)	ND (5)	51	7.0	32
	Mar-96	ND (0.5)	7.6	2.1	ND (0.5)	ND (0.5)	3.3	1.9	18	110	0.97	0.8	26	90	119
	Jan-97	ND (0.5)	7.22	8.1	ND (5)	ND (5)	ND (5)	34	38	510	ND (5)	1.8	ND (0.5)	ND (0.5)	4.3
	Apr-97	0.25	7.67	2.5	ND (5)	ND (5)	ND (5)	13	14	240	ND (5)	ND (5)	18	6.9	150
	Oct-97	ND (0.05)	7.24	0.61	ND (0.5)	ND (0.5)	0.74	10	12	210	0.77	0.54	0.99	0.67	3.1
	May-98	ND (0.05)	7.46	0.54	ND (0.5)	ND (0.5)	1.5	6.6	7.6	26	2.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.5)
	Nov-98	ND (0.05)	7.5	0.76	ND (0.5)	ND (0.5)	1.3	1.9	2.3	25	2.0	ND (0.5)	0.59	ND (0.5)	4.4
	Aug-99	ND (0.05)	7.41	0.47	ND (0.5)	ND (0.5)	ND (0.5)	6.1	6.7	24.8	1.0	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Dec-99	ND (0.5)	7.34	0.98	ND (0.5)	ND (0.5)	ND (0.5)	4.3	8.4	42.1	1.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-00	ND (0.5)	7.35	1.18	ND (0.5)	ND (0.5)	1.1	11.2	19.9	60.3	2.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-00	ND (0.5)	7.49	3.12	ND (0.5)	ND (0.5)	0.7	1.7	1.2	17.1	1.8	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-01	ND (0.5)	7.48	0.26	ND (0.5)	ND (0.5)	0.9	0.7	0.7	18.7	2.0	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-01	ND (0.5)	7.36	2.01	ND (0.5)	ND (0.5)	0.9	1.2	2.4	11.9	1.2	1.4	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-02	ND (0.5)	7.35	1.25	ND (1.0)	ND (1.0)	ND (1.0)	1.7	4.7	41.1	1.3	ND (1.0)	ND (1.0)	ND (1.0)	ND (2.0)
	Oct-02	ND (0.5)	7.35	1.84	ND (2.5)	ND (2.5)	ND (2.5)	3	8.0	66.0	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (5)
	Apr-03	ND (0.5)	7.37	0.72	ND (0.5)	ND (0.5)	0.9	2.8	5.2	ND (0.5)	2.8	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-03	ND (0.5)	7.38	1.45	ND (0.5)	ND (0.5)	0.65	0.5	3.27	33.9	1.23	4.7J	.34J	6.52	10.3
	May-04	ND (0.5)	7.36	0.23	ND (0.5)	ND (0.5)	0.9	1.8	3.10	8.8	1.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-91		7.2	ND (0.1)				NA	NA	NA	NA	ND (50)	180	550	740
	Jan-94		7.4	0.5				ND (130)	ND (130)	ND (130)	ND (130)	ND (130)	3,400	12,000	21,000
	Apr-94		7.8	0.43	ND (5)		ND (5)	ND (5)	10	ND (5)	ND (5)	ND (250)	3,400	7,600	12,400
	Jul-94		7.9	1.3	ND (5)		ND (5)	27	21	22	3.0	39	2400 [4]	2800 [4]	10000 [4]
	Nov-94		7.5	0.86	ND (1,000)		ND (1,000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (1,000)	6,200	27,000	23,000
	Jun-95	ND (0.5)	7.5	0.3	ND (5)		ND (5)	ND (5)	25	ND (5)	ND (5)	ND (50)	400	160	5,900
MW-8	Sep-95	ND (0.5)	7.6	2.8	ND (5)	ND (5)	ND (5)	ND (5)	17	ND (5)	ND (5)	ND (500)	2,000	1,500	8,300
	Dec-95	ND (0.5)	7.9	1.8	ND (5)	ND (5)	ND (5)	22	51	7.5	ND (5)	ND (500)	ND (500)	ND (500)	7,800
	Mar-96	ND (0.5)	7.6	1	ND (0.5)	ND (0.5)	9.4	5.8	24	2.4	0.76	ND (5)	400	13	1,470
	Jan-97	0.65	7.41	0.88	ND (5)	ND (5)	ND (5)	ND (5)	11	ND (5)	ND (5)	ND (50)	2,300	ND (50)	3,600
	Apr-97	0.30	7.37	2.7	ND (1)	ND (1)	ND (1)	ND (1)	3.8	ND (1)	ND (1)	6.5	530	17	ND (750)
	Oct-97	ND (0.05)	7.19	0.12	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	4,800	290	14,000
	May-98	ND (0.05)	7.38	0.91	ND (0.5)	ND (0.5)	1.6	160	51	ND (0.5)	2.2	ND (0.5)	72	39	260
	Nov-98	6.5	7.9	1.9	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	30	2,700	160	7,300
	Aug-99	ND (0.5)	7.33	0.75	ND (2.5)	ND (2.5)	ND (2.5)	97	49	7.5	ND (2.5)	ND (2.5)	23	25	60
	Dec-99	ND (0.5)	7.40	3.02	ND (25)	ND (25)	140	ND (25)	ND (25)	65.0	ND (25)	ND (25)	695	775	4,180
	Apr-00	ND (0.5)	7.39	0.59	ND (0.5)	ND (0.5)	1.5	17.4	26.2	11.4	2.5	ND (0.5)	12.8	75.4	63
	Oct-00	ND (0.5)	7.41	ND (0.05)	ND (0.5)	ND (0.5)	1.2	22.2	13.3	3.0	1.2	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-01	ND (0.5)	7.45	0.24	ND (0.5)	ND (0.5)	0.9	16.7	10.9	3.4	1.1	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-01	ND (0.5)	7.42	0.27	ND (0.5)	ND (0.5)	1	10.2	7.1	1.4	1.0	ND (0.5)	ND (0.5)	3.8	22.9
	Apr-02	ND (0.5)	7.41	0.27	ND (0.5)	ND (0.5)	0.8	16.6	13.3	5.1	1.0	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-02	ND (0.5)	7.34	0.48	ND (0.5)	ND (0.5)	0.8	4.7	7.5	8.6	1.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-03	ND (0.5)	7.36	0.3	ND (0.5)	ND (0.5)	0.7	4.7	5.4	1.7	1.8	ND (0.5)	4.3	7.5	16.9
	Oct-03	ND (0.5)	7.39	0.47	ND (0.5)	ND (0.5)	0.68	2.19	6.77	7.53	1.02	0.52	ND (0.5)	6.86	54.7
	May-04	ND (0.5)	7.32	0.48	ND (0.5)	ND (0.5)	2.6	8.0	12.1	13.20	1.30	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)

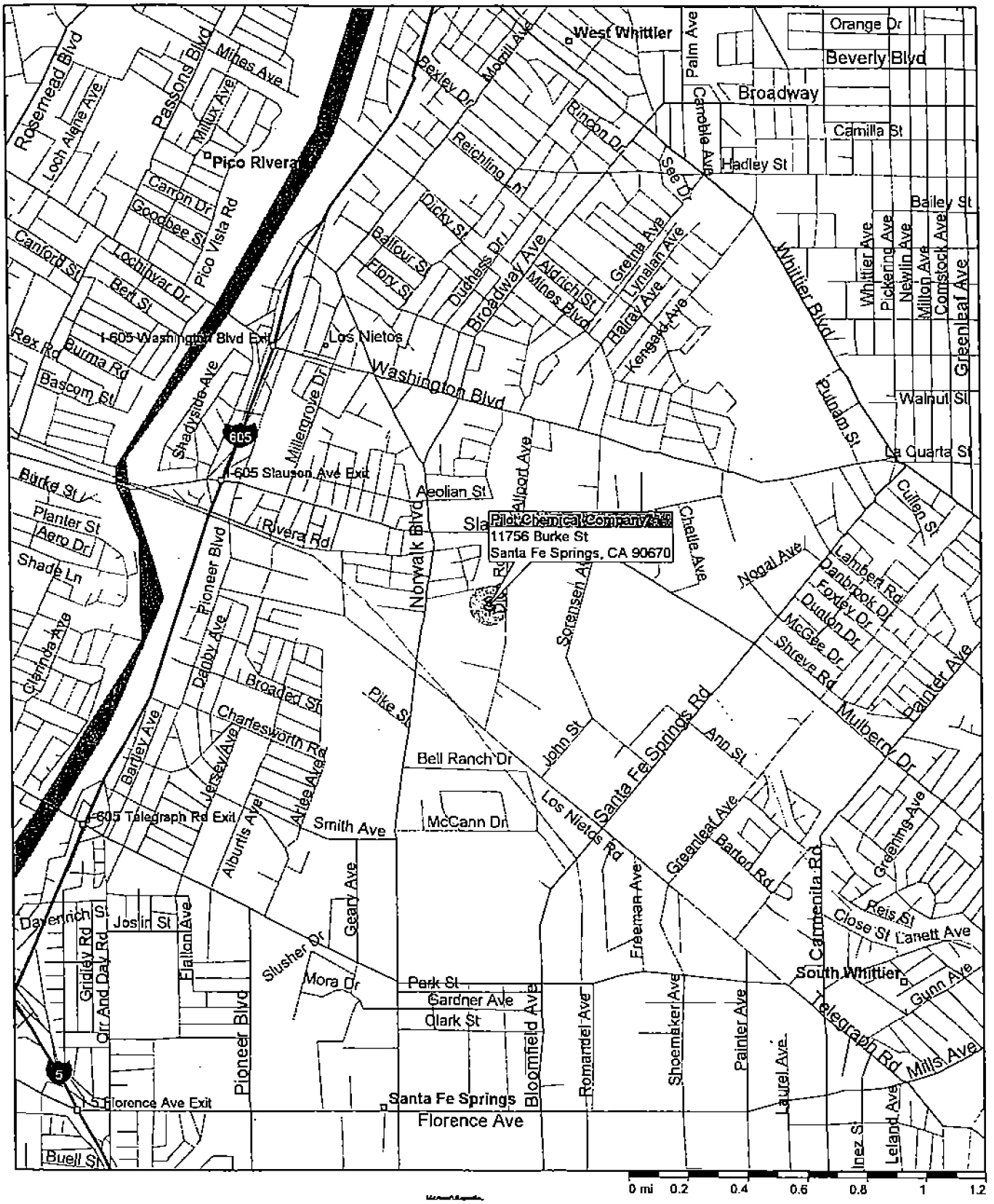
Monitoring Well	Date	TPH (mg/L)	pH units	MBAS (mg/L)	1,1-DCA (ug/L)	1,1-DCE (ug/L)	PCE (ug/L)	Carbon Tetrachloride (ug/L)	Chloroform (ug/L)	1,2 DCA (ug/L)	TCE (ug/L)	Benzene (ug/L)	Ethylbenzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)
MW-11	Apr-91		7.39	2.2				NA	NA	NA	NA	ND (0.5)	0.95	1	7.6
	Jan-94		7.1	1.4				ND (1.3)	ND (1.3)	35	3.3	ND (1.3)	ND (1.3)	ND (1.3)	ND (3.8)
	Apr-94		7.4	18	ND (0.5)		2.4	ND (0.5)	1.3	54 [4]	5.1	1.2	4.7	0.69	1.5
	Jul-94		7.3	11	ND (10)		ND (10)	ND (10)	ND (10)	ND (10)	80	ND (10)	92	340	327
	Nov-94		6.9	1.7	ND (2.5)		ND (2.5)	2.6	ND (2.5)	100	5.3	9.6	4.1	10	7.5
	Jun-95	ND (0.5)	7.3	1	ND (5)		ND (5)	ND (5)	ND (5)	12	ND (5)	ND (0.5)	ND (0.5)	ND (0.5)	11
	Sep-95	ND (0.5)	7.1	8.3	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	83	ND (50)	ND (5)	110	530	353
	Dec-95	0.68	7.2	23	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	90	ND (5)	ND (5)	18	ND (5)	21
	Mar-96	0.8	7.2	24	ND (5)	ND (5)	6.9	ND (5)	ND (5)	73	ND (5)	ND (5)	47	25	83
	Jan-97	0.62	7.14	9.8	ND (5)	ND (5)	5.2	ND (5)	ND (5)	38	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
	Apr-97	0.52	7.13	7.9	ND (1)	ND (1)	3.6	ND (1)	ND (1)	30	3.3	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.5)
	Oct-97	ND (0.05)	6.82	9.7	ND (0.5)	ND (0.5)	4.3	ND (0.5)	ND (0.5)	28	5.2	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.5)
	May-98 [13]	ND (0.05)	6.95	7.9	ND (0.5)	ND (0.5)	4	ND (0.5)	ND (0.5)	ND (0.5)	3.9	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.5)
	Nov-98	ND (0.05)	7.1	21	ND (0.5)	ND (0.5)	3.9	ND (0.5)	ND (0.5)	27	5.2	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.5)
	Aug-99	ND (0.5)	6.97	11.4	ND (0.5)	ND (0.5)	2.7	ND (0.5)	ND (0.5)	20.2	4.2	3.8	ND (0.5)	ND (0.5)	2.3
	Dec-99	ND (0.5)	7.07	3.77	ND (0.5)	ND (0.5)	2.4	ND (0.5)	ND (0.5)	27.4	3.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-00	ND (0.5)	7.13	1.43	26	ND (0.5)	4	ND (0.5)	0.5	ND (0.5)	3.3	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-00	ND (0.5)	7.13	3.96	ND (0.5)	ND (0.5)	3.9	ND (0.5)	ND (0.5)	13	1.8	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-01	ND (0.5)	7.16	4.95	0.3J	0.8	8.1	ND (0.5)	0.7	25.5	3.1	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-01	ND (0.5)	7.09	2.12	ND (0.5)	3.2	17.7	ND (0.5)	1.5	4.3	3.3	0.5	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-02	ND (0.5)	7.16	7.22	ND (0.5)	1.7	14.7	ND (0.5)	0.6	14.3	3.2	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Oct-02	ND (0.5)	7.12	9.41	ND (0.5)	2.9	21.4	ND (0.5)	0.7	13.5	3.9	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	Apr-03	ND (0.5)	7.18	6.08	ND (0.5)	ND (0.5)	10.4	ND (0.5)	ND (0.5)	5.3	2.3	ND (0.5)	ND (0.5)	ND (0.5)	1.1
	Oct-03	ND (0.5)	7.20	18.3	.125J	1.3	12.9	ND (0.5)	2.76	14.5	1.89	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
	May-04	ND (0.5)	7.22	4.19	ND (0.5)	1.0	14.9	ND (0.5)	2.5	9.0	7.0	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
DUP-1(MW-7)	Apr-97	NA	NA	NA	ND (2.5)	ND (2.5)	ND (2.5)	13	12	200	ND (2.5)	ND (2.5)	22	8.3	150
DUP-2(MW-3)	Apr-97	NA	NA	NA	ND (0.5)	ND (0.5)	1.2	ND (0.5)	ND (0.5)	16	3.1	ND (0.5)	8.5	4.6	9.6
DUP-(MW-4)	Oct-97	NA	NA	NA	ND (0.5)	ND (0.5)	1.3	ND (0.5)	ND (0.5)	23	3.3	ND (0.5)	32	20	29
DUP-(MW-7)	Oct-97	NA	NA	NA	ND (0.5)	ND (0.5)	0.64	8.5	12	210	0.68	0.54	1.1	0.86	3.7
MW-98 [14]	Nov-98	NA	NA	NA	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	3,300	ND (250)	ND (250)	7,100	130,000	47,000
MW-99 [15]	Nov-98	NA	NA	NA	5.6	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	240	47	95
DUP-1(MW-3)	Aug-99	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	70	ND (5)	ND (5)	3,450	6,800	11,600
DUP-2(MW-6)	Aug-99	NA	NA	NA	ND (5)	ND (5)	ND (5)	201	145	35	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)
DUP-1(MW-7)	Dec-99	NA	NA	NA	ND (0.5)	ND (0.5)	ND (0.5)	4.1	8.1	40.7	1.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
DUP-2(MW-1)	Dec-99	NA	NA	NA	ND (250)	ND (250)	ND (250)	ND (250)	ND (250)	1,500	ND (250)	ND (250)	32,800	122,000	160,000
DUP-1(MW-9)	Apr-00	NA	NA	NA	64	11	13	ND (5.0)	10	20	488	ND (5.0)	ND (5.0)	ND (5.0)	ND (10)
DUP-2(MW-11)	Apr-00	NA	NA	NA	19.3	ND (0.5)	2.8	ND (0.5)	ND (0.5)	ND (0.5)	2.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
DUP-1(MW-10)	Oct-00	NA	NA	NA	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	11	1,640	ND (5.0)	18	1,510	25	725
DUP-2(MW-8)	Oct-00	NA	NA	NA	ND (0.5)	ND (0.5)	1.2	22.3	13.9	3.1	1.2	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
DUP-1(MW-1)	Apr-01	NA	NA	NA	ND (500)	ND (500)	ND (500)	ND (500)	109J	580	ND (500)	ND (500)	19,900	64,100	66,200
DUP-2(MW-3)	Apr-01	NA	NA	NA	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	58.0	ND (50)	ND (50)	4,580	6,990	11,640
DUP-1(MW-4)	Apr-02	NA	NA	NA	ND (0.5)	ND (0.5)	0.7	ND (0.5)	ND (0.5)	2.0	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)
DUP-1 (MW-6)	Oct-02	NA	NA	NA	ND (2.5)	ND (2.5)	ND (2.5)	58	47	8.0	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (5)
DUP-1 (MW-9)	Apr-03	NA	NA	NA	8.5	1.6	1.2	58	0.5	5.5	75.4	0.5	ND (0.5)	ND (0.5)	ND (1.0)
DUP-1 (MW-4)	Oct-03	NA	NA	NA	ND (0.5)	ND (0.5)	0.61	ND (0.5)	.34J	20.2	1.04	ND (0.5)	.19J	ND (0.5)	1.42
DUP-1 (MW-8)	May-04	NA	NA	NA	ND (0.5)	ND (0.5)	2.7	8.2	15.2	17.6	1.4	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)

Notes:

[1] NA = Not Analyzed
[2] ND = Not Detected above laboratory limit
( ) = Detection Limit
[3] Estimated concentration
[4] Chlorobenzene detected at 16,000 ppb
[5] Bromodichloromethane and 1,1,2,2-Tetrachloroethane detected at 12 ppb and 11 ppb, respectively
[7] Freon 113 detected at 3.1 ppb
[8] Methylene Chloride detected at 10 ppb
[9] cis-1,2 DCE detected at 1.0 ppb (Apr-97) and 1.6 ppb (Aug-99)
[10] Methylene Chloride detected at 29 ppb
[11] Methylene Chloride detected at 17 ppb
[12] Methylene Chloride detected at 7.5 ppb
[13] cis-1,2 DCE detected at 23 ppb
[14] Duplicate of MW-2
[15] Duplicate of MW-4
[16] cis-1,2 DCE detected at 1.5 ppb (Dec-99)
[17] cis-1,2 DCE detected at 1.1 ppb (Oct-00)
[18] cis-1,2 DCE detected at 1.5 ppb and Bromodichloromethane detected at 1.6 ppb (Apr-01)
[19] 1,1,1-TCA detected at 3.2 ppb (Oct-01)
[20] cis-1,2 DCE detected at 1.8 ppb (Oct-01), 1.0 ppb (Apr-02), 1.5 ppb (Apr-03) and 3.7 ppb (May-04)
[21] cis-1,2 DCE detected at 1.73 ppb and chlorobenzene estimated at .28 ppb (Oct-03)

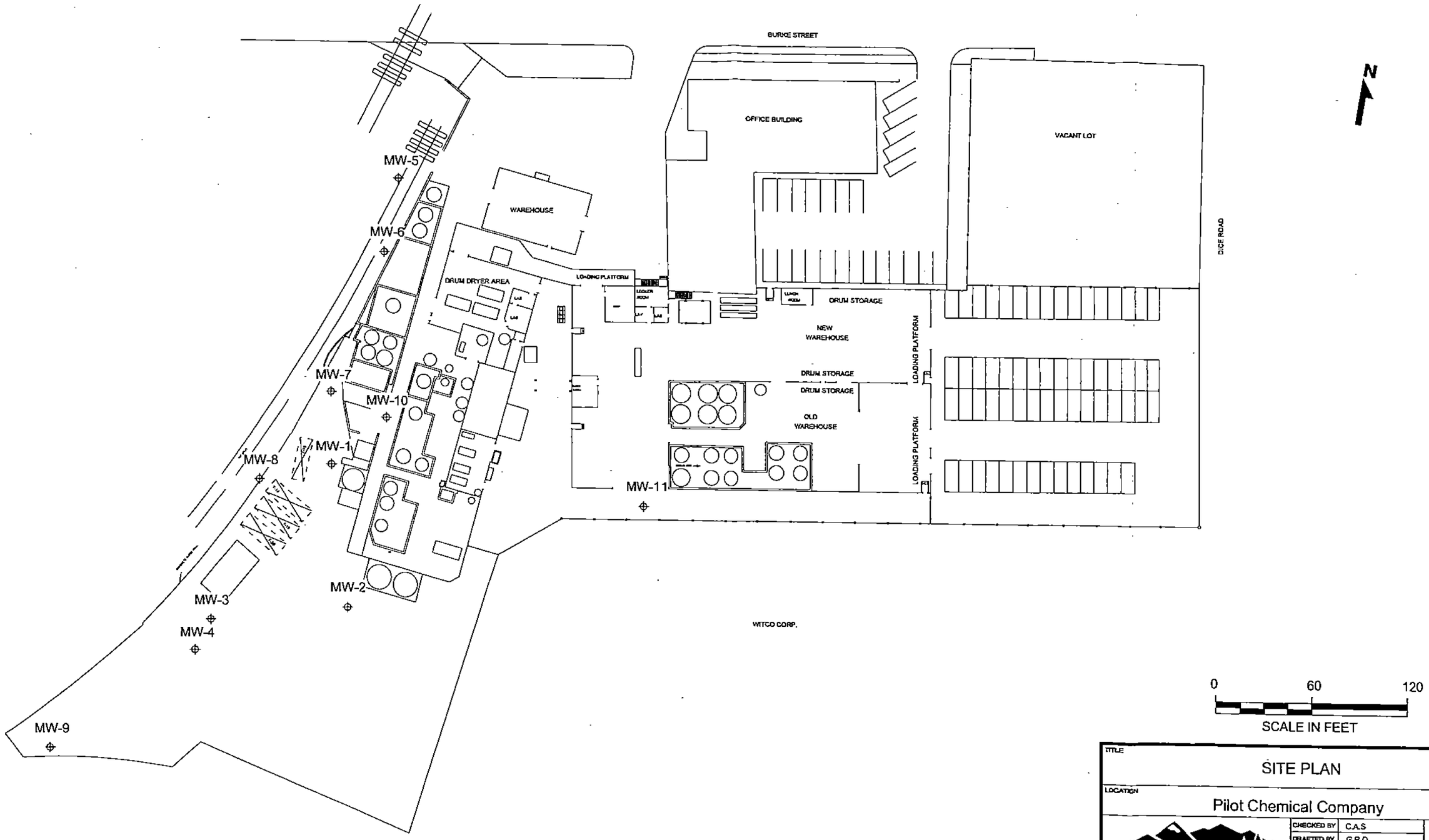
Figures

Figure 1
Site Location Map



Streets98

Copyright © 1988-1997, Microsoft Corporation and/or its suppliers. All rights reserved. Please visit our web site at http://maps.expedia.com.



TITLE

SITE PLAN

LOCATION

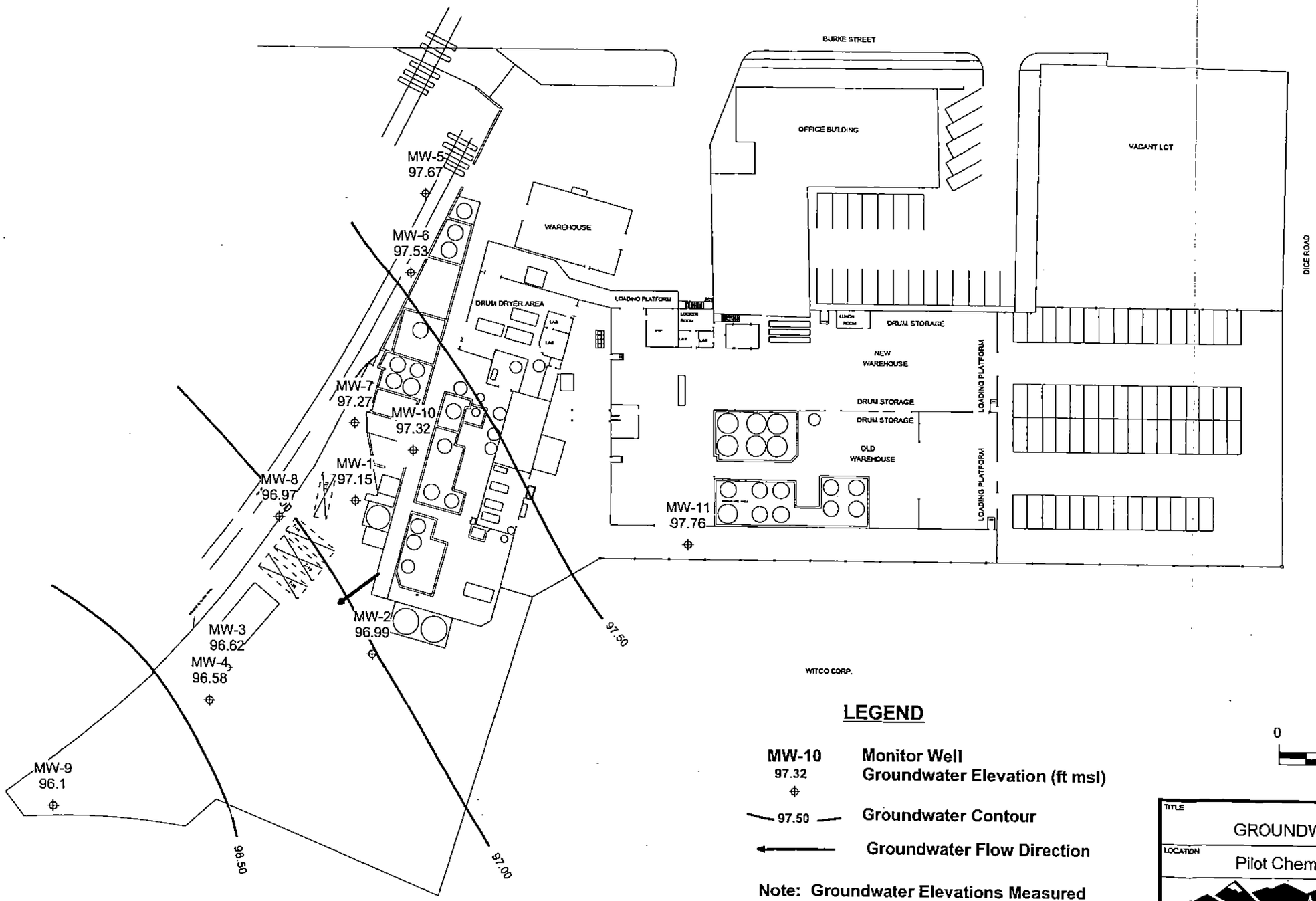
Pilot Chemical Company

PACIFIC EDGE ENGINEERING

CHECKED BY	C.A.S
DRAFTED BY	G.R.D.
FILE NAME	wlapr00.WOR
DATE	6/5/00

FIGURE: 2

N:\P\PILOT\GIS\WORK\Site_Plan



LEGEND

MW-10 97.32	Monitor Well Groundwater Elevation (ft msl)
97.50	Groundwater Contour
	Groundwater Flow Direction

Note: Groundwater Elevations Measured on May 17, 2004.

0 60 120
SCALE IN FEET

TITLE
GROUNDWATER FLOW DIRECTION

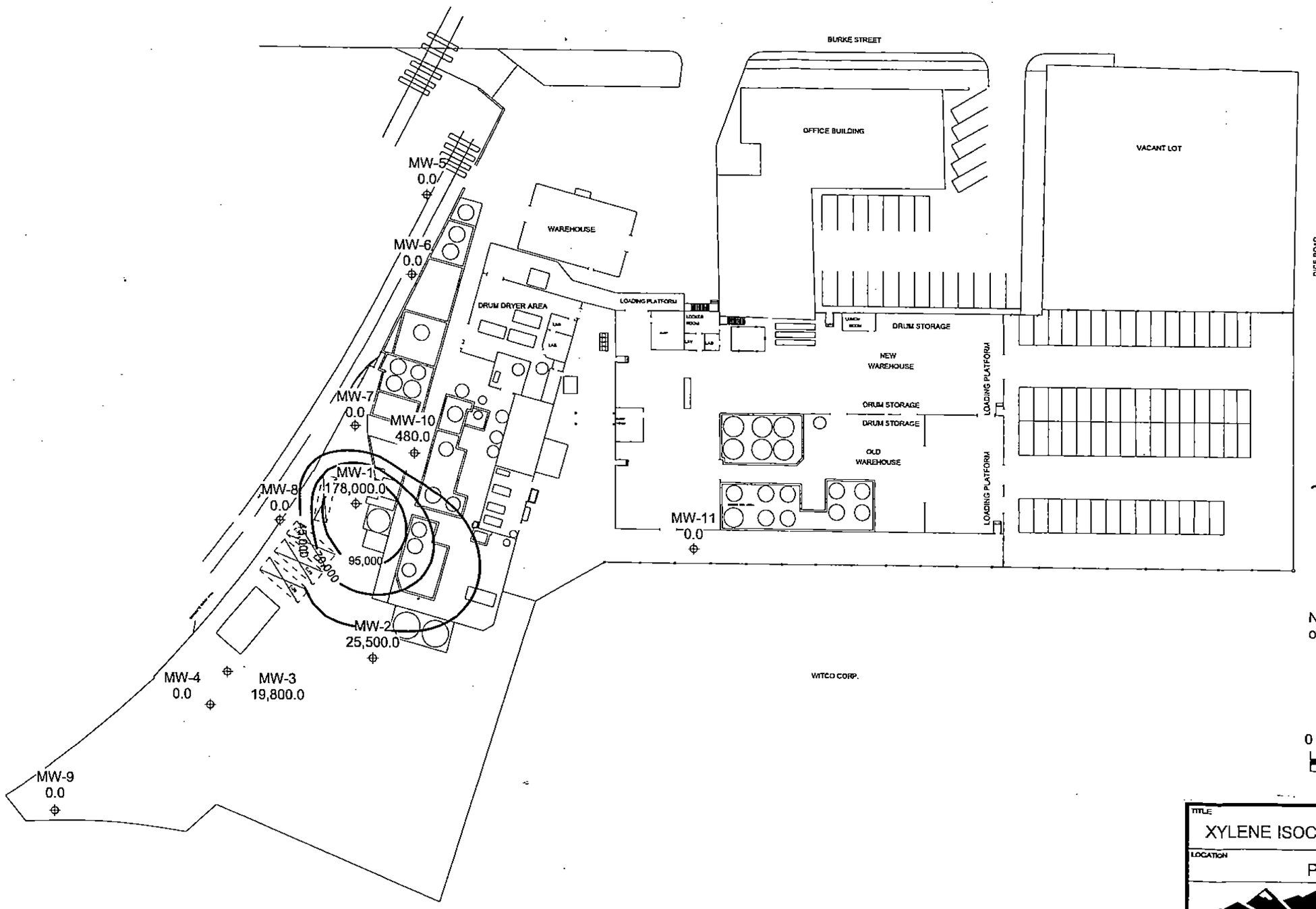
LOCATION
Pilot Chemical Company

PACIFIC EDGE ENGINEERING

CHECKED BY	C.A.S
DRAFTED BY	C.A.S.
FILE NAME	GWContour5_04.WOR
DATE	5/26/04

FIGURE: 3

N:\PPILOT\GIS\Work\May2004\GW\GWContour5_04.WOR



LEGEND

MW-3	Monitor Well
19,800	Xylene Concentration (ug/L)
45,000	Xylene Isoconcentration Contour
	Inferred Isoconcentration Contour

Note: Groundwater Elevations Measured on May 17, 2004.

0 60 120

SCALE IN FEET

N:\PPILOT\GIS\WORK\MAY 03\XYL5_04

TITLE

XYLENE ISOCONCENTRATION CONTOUR PLOT

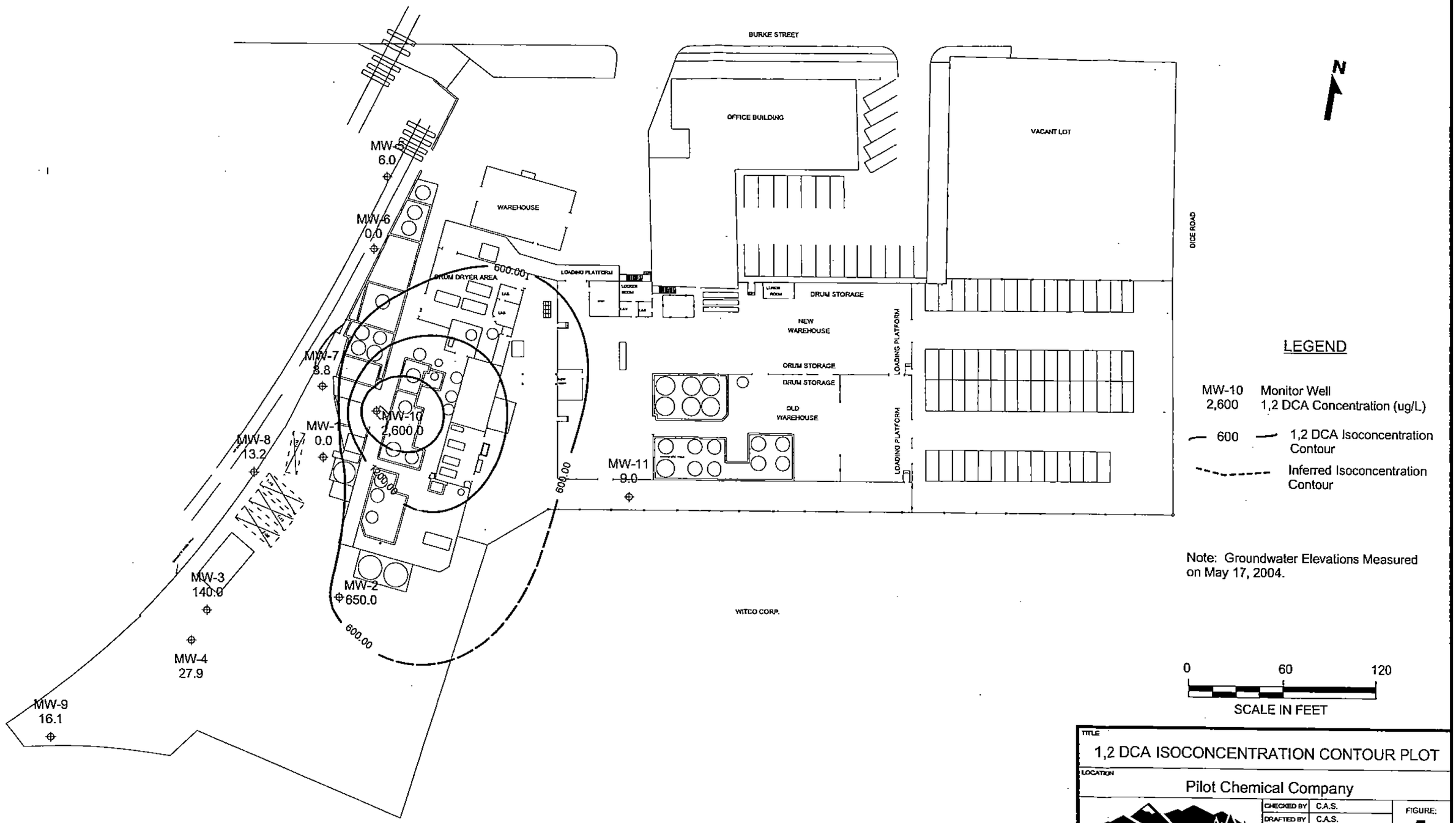
LOCATION

Pilot Chemical Company

PACIFIC EDGE ENGINEERING

CHECKED BY	C.A.S.
DRAFTED BY	C.A.S.
FILE NAME	
DATE	5/28/04

FIGURE: 4


BURKE STREET
OFFICE BUILDING
VACANT LOT
DICE ROAD
N
WAREHOUSE
LOADING PLATFORM
DRUM DRYER AREA
600.00
DRUM STORAGE
NEW WAREHOUSE
DRUM STORAGE
DRUM STORAGE
OLD WAREHOUSE
LOADING PLATFORM
LOADING PLATFORM
MW-5 6.0
MW-6 0.0
MW-7 3.8
MW-8 13.2
MW-1 0.0
MW-10 2,600.0
MW-11 9.0
MW-3 140.0
MW-2 650.0
MW-4 27.9
MW-9 16.1
WITCO CORP.
LEGEND
MW-10 Monitor Well
2,600 1,2 DCA Concentration (ug/L)
600 1,2 DCA Isoconcentration Contour
Inferred Isoconcentration Contour
Note: Groundwater Elevations Measured on May 17, 2004.
0 60 120
SCALE IN FEET
TITLE
1,2 DCA ISOCONCENTRATION CONTOUR PLOT
LOCATION
Pilot Chemical Company
PACIFIC EDGE ENGINEERING
CHECKED BY C.A.S.
DRAFTED BY C.A.S.
FILE NAME WORK\MAY04\DCA504
DATE 5/26/04
FIGURE: 5
N:\PILOT\GIS\WORK\MAY04\DCA504

Appendix A

Groundwater Sampling Protocol and Field Notes

Groundwater Sampling Protocol

Groundwater samples were collected after removing three casing volumes of water from developed monitoring wells using a Waterra Inertial Pump. Dedicated 5/8-inch high-density polyethylene tubing was used to convey groundwater from the well to a surface storage container. Dedicated ¼-inch polyethylene tubing was used to convey the groundwater sample into the appropriate sample container. Groundwater samples were placed in thermally insulated chests containing ice and shipped under chain-of-custody to a State-certified analytical laboratory.

To determine whether cross-contamination of samples occurred during shipment to the laboratory, a trip blank consisting of a vial of distilled water was also included in the sample cooler.

PACIFIC EDGE ENGINEERING, INC.

HYDRODATA LOG

MONITOR WELL NO.	DATE	TIME	DEPTH TO WATER	TOTAL DEPTH	WELL DIA.	NOTES
MW-1	5/17/04	9:50	55.45	67'		Noticed Vacuum in well ** when removing well cap
MW-2		9:53	56.46	68'	2"	
MW-3		9:55	57.08	65'	2"	
MW-4		9:57	58.60	76'	6"	
MW-5		9:35	54.03	71'	4"	
MW-6		9:38	54.24	70'	4"	
MW-7		9:46	56.01	70'	4"	
MW-8		9:43	54.58	73'	4"	
MW-9		9:59	55.50	71'	4"	
MW-10		10:03	55.84	70'	4"	
MW-11		10:07	54.72	74'	4"	CASING APPEARS TO Be S.-King.

** VES System extracting From EW3.

SAMPLING EVENT DATA SHEET

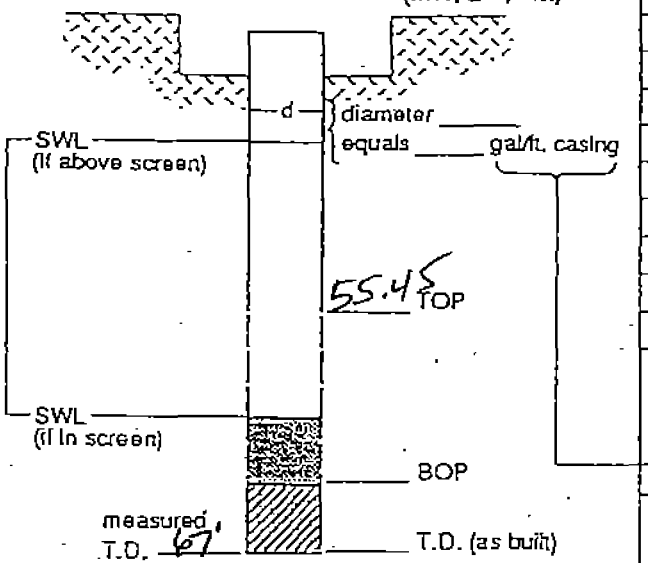
(fill out completely)

Well ID MW-1

PROJECT Pilot EVENT 5/04 SAMPLER SHLZ DATE 5/17/04

Well / Hydrologic statistics

Well type MW-1 (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1217		
Stop	1240		
Sampled	1240		
(Final IWL)			

Purge calculation

0.65 gal/ft. x 11.55 ft - 7.5 gals x 3 22 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume - 3 casings)

Head purge calculation (Airlift only)

_____ gal/ft. x _____ ft = _____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Purged with Waterra & dedicated tubing. Sampled with Disposable poly Tubing (Same for ALL wells)

Sampled with:

Actual gallons purged 10

Actual volumes purged 2+

Well yield (+) (see below) VLY

Additional comments: Purged for 10 minutes & went dry after ~7 gallons. Let recover for 10 minutes & able to purge ~2 gallons. SVE well flow is extracting & may be causing this to go dry

Weather Condition AM PM

COC #

Sample I.D.	Analysis	Lab

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

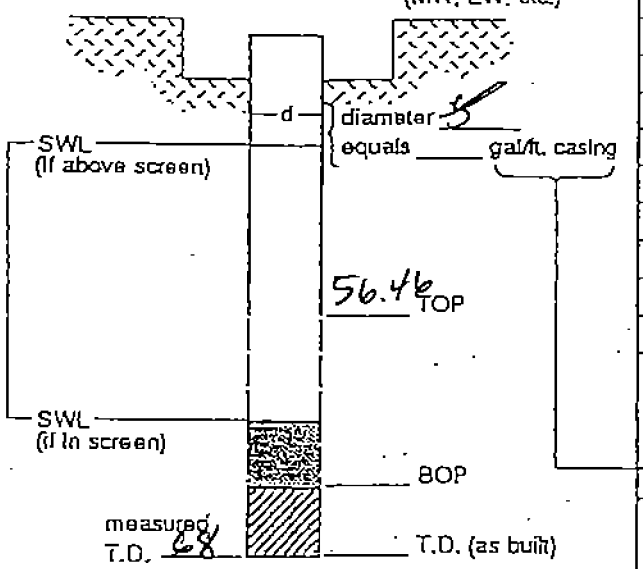
(fill out completely)

Well ID MW-2

PROJECT PLT EVENT 5/04 SAMPLER Stolz DATE 5/17/04

Well / Hydrologic statistics

Well type _____ (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1400		
Stop	1405		
Sampled	1405		
(Final IWL)			

Purge calculation

0.16 gal/ft. x 11.5 ft - 1.8 gals x 3 5.5 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume - 3 casings)

Head purge calculation (Airlift only)

_____ gal/ft. x _____ ft - _____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Actual gallons purged 6

Actual volumes purged 3+

Well yield (+) (see below) _____

COC # _____

Sample I.D.	Analysis	Lab

Additional comments:

Weather Condition AM PM

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

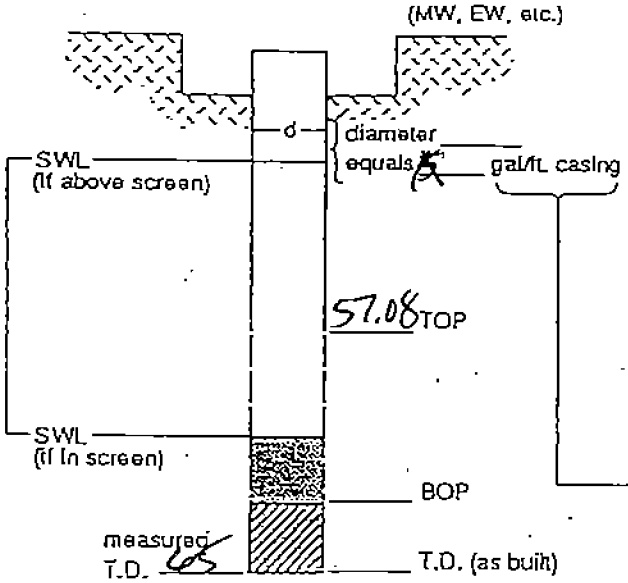
(fill out completely)

Well ID MW-3

PROJECT Pilot EVENT 5/04 SAMPLER Stotz DATE 5/17/04

Well / Hydrologic statistics

Well type _____ (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1410		
Stop	1420		
Sampled	1420		
(Final IWL)			

Purge calculation

0.16 gal/ft. x 7.9 ft. = 1.3 gals x 3 3.8 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume - 3 casings)

Head purge calculation (Airlift only)

_____ gal/ft. x _____ ft. = _____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Additional comments:

Weather Condition AM PM

Actual gallons purged 5

Actual volumes purged 3+

Well yield (+) (see below) _____

COC # _____

Sample I.D.	Analysis	Lab

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop. MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump. LY - able to purge 3 volumes by returning later or next day. VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

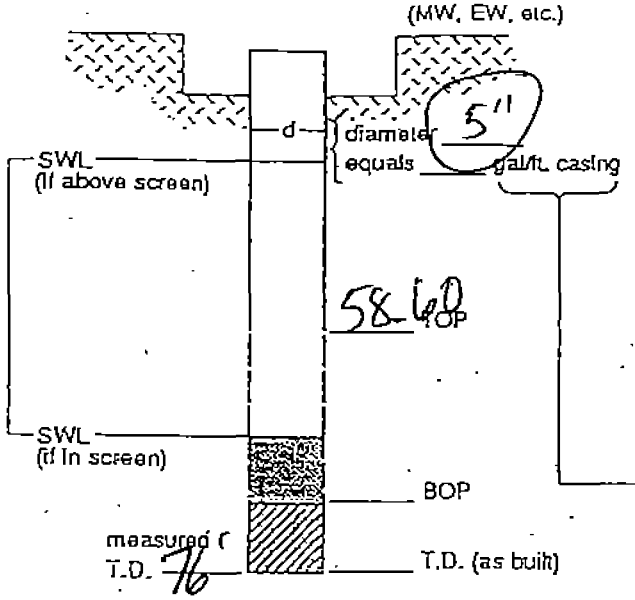
(fill out completely)

Well ID MW-4

PROJECT Pico EVENT 5/04 SAMPLER SHLZ DATE 5/19/04

Well / Hydrologic statistics

Well type _____ (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1035		
Stop	1125		
Sampled	1125		
(Final IWL)			

Purge calculation

1.02 gal/ft. x 17.4 ft. = 17.7 gals x 3 53 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume - 3 casings)

Head purge calculation (Airlift only)

_____ gal/ft. x _____ ft. = _____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Additional comments:

Weather Condition AM
PM

Actual gallons purged 50

Actual volumes purged 3

Well yield (+) (see below) _____

COC # _____

Sample I.D.	Analysis	Lab

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

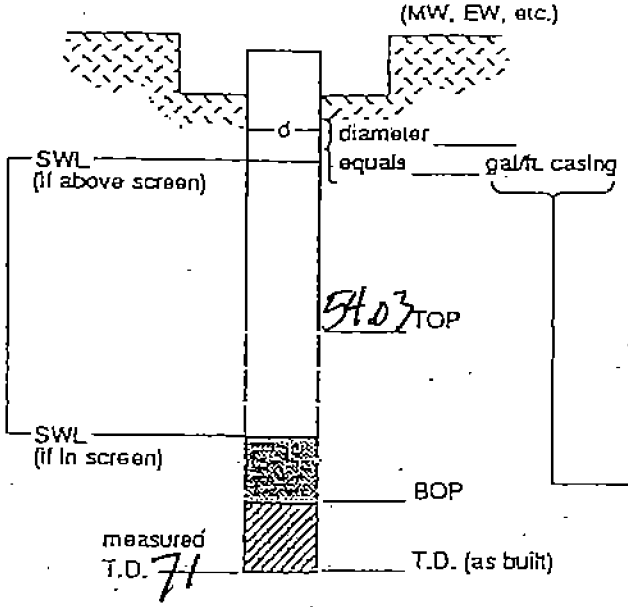
(fill out completely)

Well ID MW-5

PROJECT Pilot EVENT 5/04 SAMPLER Stotz DATE 5/17/04

Well / Hydrologic statistics

Well type MW (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1030		
Stop	10:55		
Sampled	10:55		
(Final IWL)			

Purge calculation

0.65 gal/ft. x 16.97 ft. = 11 gals x 3 33 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume - 3 casings)

Head purge calculation (Airlift only)

_____ gal/ft. x _____ ft. = _____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with: Poly Tubing

Actual gallons purged 35

Actual volumes purged 3+

Well yield (+) (see below)

COC #

Sample I.D.	Analysis	Lab

Additional comments:

Weather Condition AM PM

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

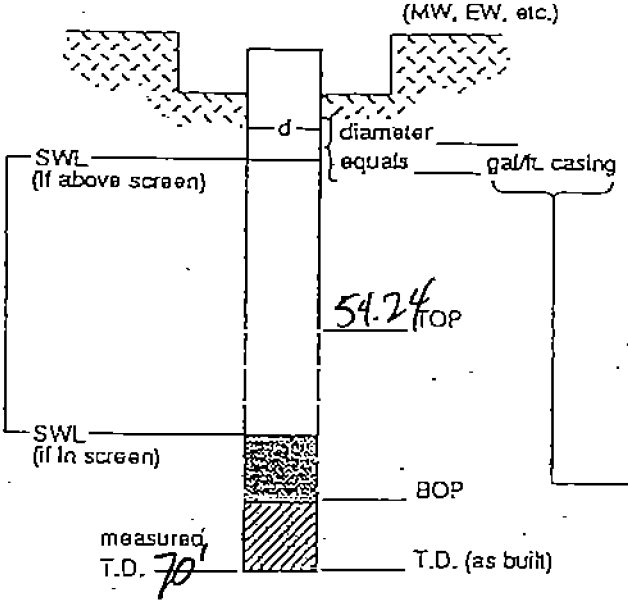
(fill out completely)

Well ID MW-6

PROJECT Pico EVENT 5/04 SAMPLER SHLZ DATE 5/17/04

Well / Hydrologic statistics

Well type _____ (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1115		
Stop	1140		
Sampled	1140		
(Final IWL)			

Purge calculation

0.65 gal/ft. x 15.7 ft. (SWL to BOP or packer to BOP) = 10.2 gals (one volume) x 3 = 31 gals. (purge volume - 3 casings)

Head purge calculation (Airlift only)

_____ gal/ft. x _____ ft. (Packer to SWL) = _____ gals.

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Actual gallons purged 30

Actual volumes purged 3

Well yield (+) (see below) _____

COC # _____

Sample I.D.	Analysis	Lab

Additional comments:

Weather Condition AM PM

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

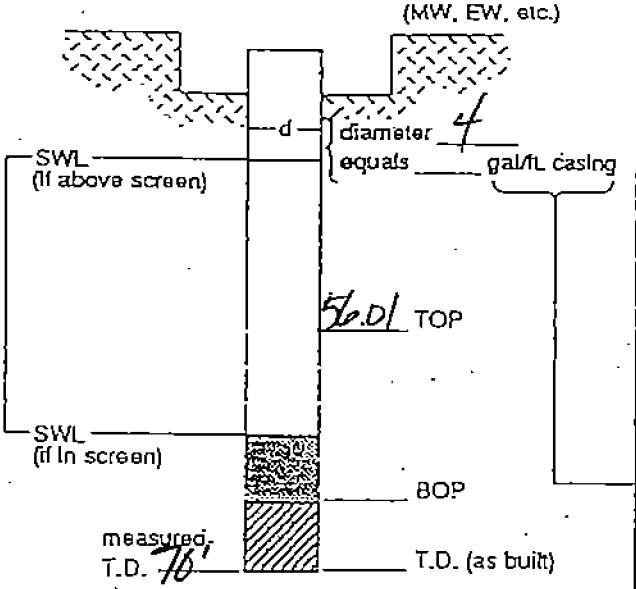
(fill out completely)

Well ID MW-7

PROJECT Pilot EVENT 5/04 SAMPLER Stolz DATE 5/17/04

Well / Hydrologic statistics

Well type MW (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1245		
Stop	1300		
Sampled	1300		
(Final IWL)			

Purge calculation

0.65 gal/ft. x 13.99 ft. - 9.1 gals x 3 27 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume - 3 casings)

Head purge calculation (Airlift only)

_____ gal/ft. x _____ ft. - _____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Actual gallons purged 25

Actual volumes purged 3+

Well yield (+) (see below) _____

COC #

Sample I.D.	Analysis	Lab

Additional comments:

Weather Condition AM
PM

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

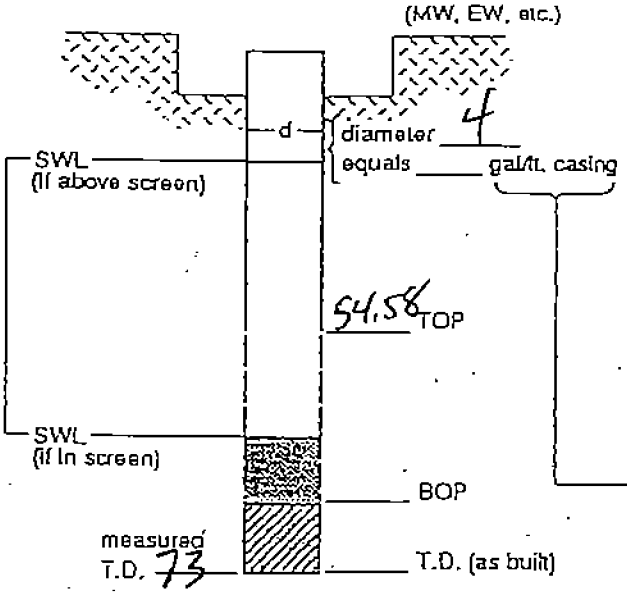
(fill out completely)

Well ID MW-8

PROJECT P. LOT EVENT 5/04 SAMPLER Stolz DATE 5/17/04

Well / Hydrologic statistics

Well type MW (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1145		
Stop	1215		
Sampled	1215		
(Final IWL)			

Purge calculation

0.65 gal/ft. x 18.4 ft. = 11.9 gals x 3 36 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume-3 casings)

Head purge calculation (Airlift only)

____ gal/ft. x ____ ft. = ____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Actual gallons purged 35

Actual volumes purged 3

Well yield (+) (see below) ____

COC #

Sample I.D.	Analysis	Lab

Additional comments: DUP-1 Collected from MW-8.

Weather Condition AM PM

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

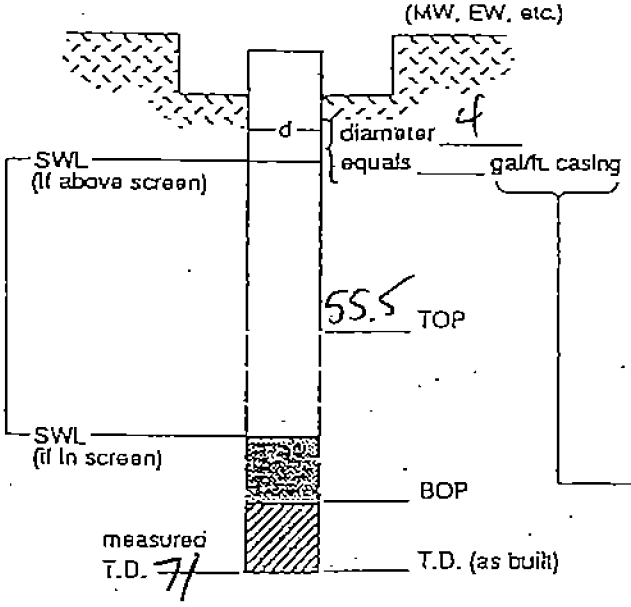
(fill out completely)

Well ID MW-9

PROJECT Pilot EVENT 5/04 SAMPLER Stolz DATE 5/19/04

Well / Hydrologic statistics

Well type MW (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	0947		
Stop	1000		
Sampled	1000		
(Final IWL)			

Purge calculation

0.65 gal/ft. x 15.5 ft. - 10.1 gals x 3 30 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume - 3 casings)

Head purge calculation (Airlift only)

____ gal/ft. x ____ ft = ____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Additional comments: Purged for 5 minutes & well went Dry. Let Recover for 10 minutes. ~~& [illegible] well~~ Pulled well Tube & fixed Stuck foot valve

Weather Condition AM PM

Actual gallons purged 15

Actual volumes purged 2X

Well yield (+) (see below) ____

COC #

Sample I.D.	Analysis	Lab

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

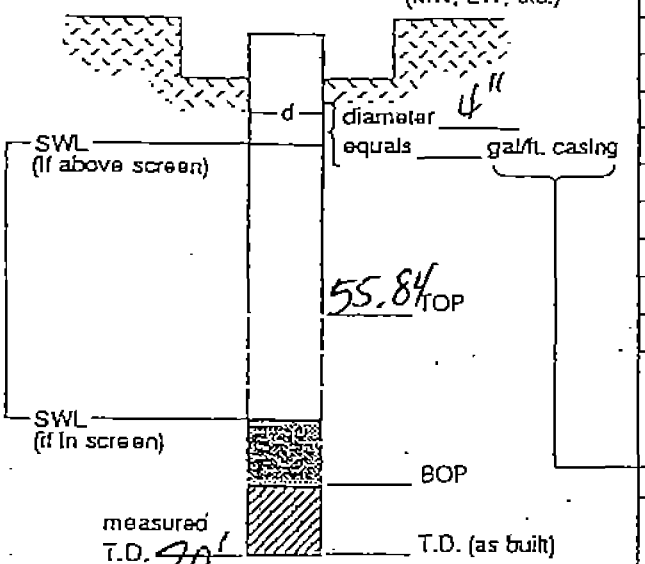
(fill out completely)

Well ID MW-10

PROJECT Pilot EVENT 5/04 SAMPLER SHL2 DATE 5/18/04

Well / Hydrologic statistics

Well type MW (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	0910		
Stop	0940		
Sampled	0940		
(Final IWL)			

Purge calculation

0.65 gal/ft. x 14.2 ft. = 9.2 gals x 3 27 gals.

(SWL to BOP or packer to BOP) (one volume) (purge volume - 3 casings)

Head purge calculation (Airlift only)

____ gal/ft. x ____ ft. = ____ gals.

(Packer to SWL)

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Actual gallons purged 15

Actual volumes purged 2+

Well yield (+) (see below) VLY

COC #

Sample I.D.	Analysis	Lab

Additional comments: purged from 0910 - 0920 & went Dry. Let recovery for 10 minutes

Weather Condition AM PM

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

SAMPLING EVENT DATA SHEET

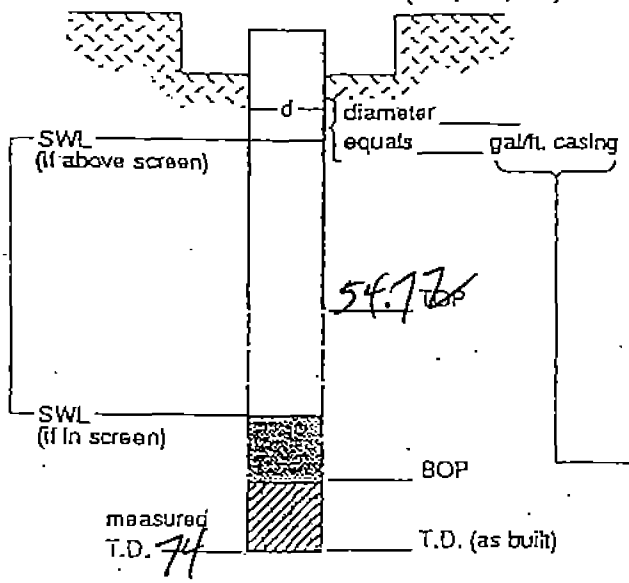
(fill out completely)

Well ID MW-11

PROJECT Pilot EVENT 5/04 SAMPLER [illegible] DATE 5/17/04

Well / Hydrologic statistics

Well type _____ (MW, EW, etc.)



Action	Time	Pump Rate	IWL (low yield)
Start pump / Begin	1310		
Stop	1350		
Sampled	1350		
(Final IWL)			

Purge calculation

0.65 gal/ft. x 19.2 ft. (SWL to BOP or packer to BOP) 12.5 gals (one volume) x 3 37 gals. (purge volume - 3 casings)

Head purge calculation (Airlift only)

_____ gal/ft. x _____ ft. (Packer to SWL) = _____ gals.

Equipment Used / Sampling Method / Description of Event:
Purged/Developed with:

Sampled with:

Actual gallons purged ~35

Actual volumes purged 3

Well yield (+) (see below) _____

COC # _____

Sample I.D.	Analysis	Lab

Additional comments:

Weather Condition AM
PM

Gallons purged*	TEMP °C / °F (circle one)	EC (µs / cm)	PH	TURBIDITY (NTU)		
1.						
2.						
3.						
4.						
5.						
6.						
7.						

* Take measurement at approximate each casing volume purged.

(+) HY - Minimal W.L. drop.

MY - WL drop - able to purge 3 volumes during one setting by reducing pump rate or cycling pump.

LY - able to purge 3 volumes by returning later or next day.

VLY - Minimal recharge - unable to purge 3 volumes

PACIFIC EDGE ENGINEERING, INC.

Appendix B

Laboratory Analytical Results, Quality Control Reports, and Chain-of-Custody

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

LABORATORY NAME: AMERICAN SCIENTIFIC LABORATORIES, LLC

ADDRESS: 2520 N. SAN FERNANDO RD., LA CA 90065

TELEPHONE/FAX: TEL:323/223-9700 FAX:323/223-9500

ELAP CERTIFICATION NO. 2200 EXPIRATION DATE:1-31-2005

AUTHORIZED SIGNATURE
NAME, TITLE(print) ROJERT G. ARAGHI (Laboratory Director)

SIGNATURE, DATE Rojert G. Araghi 7-28-04

CLIENT NAME: PACIFIC EDGE ENGINEERING

PROJECT NAME: PILOT CHEMICAL

PROJECT NUMBER: 0019

ASL JOB NO: 22030

DATE SAMPLED: 05/17/04 TO 05/17/04
DATE RECEIVED: 05/17/04 TO 05/17/04
DATE REPORTED: 05/26/04

CHAIN OF CUSTODY RECEIVED: YES_X__ NO___

COMMENTS:

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

ORGANIC ANALYSES	# OF SAMPLES 9	#OF SAMPLES SUBCONTRACTED

SAMPLE CONDITION: GOOD

INORGANIC ANALYSES	# OF SAMPLES 9	#OF SAMPLES SUBCONTRACTED

SAMPLE CONDITION: GOOD

MICROBIOLOGICAL ANALYSES	#OF SAMPLES	#OF SAMPLES SUBCONTRACTED

SAMPLE CONDITION:

OTHER TYPES OF ANALYSES	#OF SAMPLES	#OF SAMPLES SUBCONTRACTED

SAMPLE CONDITION:

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR pH

Method: 150.1 | Date Analyzed : 05-18-04

Prep (TCLP, CAl-WET,_ DM) | CRDL: 1.00

Parameter: pH | Reporting Unit: pH Units

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DILUTION FACTOR	RESULT
129633	MW-5	Water	1.00	7.37
129634	MW-6	Water	1.00	7.39
129635	MW-8	Water	1.00	7.32
129636	MW-1	Water	1.00	6.97
129637	MW-7	Water	1.00	7.36
129638	MW-11	Water	1.00	7.22
129639	MW-2	Water	1.00	7.20
129640	MW-3	Water	1.00	7.16

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR SURFACTANTS(MBAS)

Method: 425.1 | Date Analyzed : 05-18-04

Prep (TCLP, CAl-WET, DM) | CRDL: 0.05

Parameter: Surfactants(MBAS) | Reporting Unit: mg/L

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DILUTION FACTOR	RESULT
Method Blank		Water	1.00	<0.050
129633	MW-5	Water	1.00	0.25
129634	MW-6	Water	1.00	1.02
129635	MW-8	Water	1.00	0.48
129636	MW-1	Water	1.00	48.9
129637	MW-7	Water	1.00	0.23
129638	MW-11	Water	1.00	4.19
129639	MW-2	Water	1.00	4.72
129640	MW-3	Water	1.00	4.61

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD:8015M/DHSLUFT REPORTING UNIT: mg/L

	Date Analyzed	05-20-04	05-20-04	05-20-04	05-20-04	05-20-04
	Date Extracted	05-20-04	05-20-04	05-20-04	05-20-04	05-20-04
	Lab Sample ID	129633	129634	129635	129636	129637
	Client Sample ID	MW-5	MW-6	MW-8	MW-1	MW-7
	Extraction Solvent	CH_2CL_2	CH_2CL_2	CH_2CL_2	CH_2CL_2	CH_2CL_2
	Extraction Method	3510C	3510C	3510C	3510C	3510C
	Dilution Factor	1	1	1	1	1
COMPOUND	RDL					
TPH DRO(C13-C22)	0.5	<0.5	<0.5	<0.5	38.7	<0.5
TPH ORO(C22+)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC	%REC
BROMOFLUOROBENZNE	10.0	70-120	108	120	107	0	108

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD:8015M/DHSLUFT **REPORTING UNIT: mg/L**

	Date Analyzed	05-20-04	05-20-04	05-20-04		
	Date Extracted	05-20-04	05-20-04	05-20-04		
	Lab Sample ID	129638	129639	129640		
	Client Sample ID	MW-11	MW-2	MW-3		
	Extraction Solvent	CH_2CL_2	CH_2CL_2	CH_2CL_2		
	Extraction Method	3510C	3510C	3510C		
	Dilution Factor	1	1	1		
COMPOUND	**CRDL**					
TPH DRO(C13-C22)	0.5	<0.5	<0.5	<0.5		
TPH ORO(C22+)	0.5	<0.5	<0.5	<0.5		
SURROGATE SPK CONC	**ACP%**	**%REC**	**%REC**	**%REC**		
BROMOFLUOROBENZNE 10.0	70-120	119	0	0		

Note: Surrogate masked due to interferences of gasoline.

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD:8015M/DHSLUFT REPORTING UNIT: mg/L

	Date Analyzed	05-20-04			
	Date Extracted	05-20-04			
	Lab Sample ID	Method Blank			
	Client Sample ID				
	Extraction Solvent	CH_2CL_2			
	Extraction Method	3510C			
	Dilution Factor	1			
COMPOUND	CRDL				
TPH DRO(C13-C22)	0.5	<0.5			
TPH ORO(C22+)	0.5	<0.5			
SURROGATE SPK CONC	AGP%	%REC			
BROMOFLUOROBENZNE 10.0	70-120	91			

QA/QC REPORT (Continued)

Matrix Spike(MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 05-20-04
BATCH#: One
LAB SAMPLE ID: 129529

ANALYTICAL METHOD: 8015M/DHSLUFT

UNIT: (Circle one)ug/kg mg/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Diesel (C12-C23)	0	500	545	560	500	109	112	2.7	80-120%	0-12.0

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 05-20-04

ANALYTICAL METHOD: 8015M/DHSLUFT

SUPPLY SOURCE: EM Science
LOT NUMBER: EPF00072-1
DATE OF SOURCE: N/A

LAB LCS ID: Diesel STD 300ppm LCS
UNIT: (Circle One) ug/kg ug/L

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Diesel	300	240	80	80-120%

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

QA/QC REPORT

CALIBRATION STANDARD

(A). INITIAL CALIRATION

DATE PERFORMED: 12-31-04
STANDARD SUPPLY SOURCE: RESTEK
INSTRUMENT ID: HP 6890 GC

ANALYTICAL METHOD: 8015M/DHSLUFT
DATE OF SOURCE: N/A
LOT NUMBER: A029129

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 601/602 REPORTING UNIT: ug/L

	Date Analyzed	05-25-04	05-25-04	05-24-04	05-24-04	05-24-04
	Date Extracted	05-25-04	05-25-04	05-24-04	05-24-04	05-24-04
	Lab Sample ID	129633	129634	129635	129636	129637
	Client Sample ID	MW-5	MW-6	MW-8	MW-1	MW-7
	Extraction Solvent	N/A	N/A	N/A	N/A	N/A
	Extraction Method	5030	5030	5030	5030	5030
	Dilution Factor	5	5	1	2500	1
COMPOUND	RDL					
Benzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	0.5	70.0	103	8.0	<0.5	1.8
Chlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	0.5	34.5	70.0	12.1	<0.5	3.1
Chloromethane	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane(1,1DCA)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane(1,2DCA)	0.5	6.0	<0.5	13.2	<0.5	8.8
1,1-Dichloroethylene(1,1DCE)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cis 1,2-Dichloroethene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trans 1,2-Dichloroethene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cis 1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trans 1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	31500	<0.5
Methylene Chloride	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SURROGATE SPIKE CONC	ACP%	%REC	%REC	%REC	%REC	%REC
Bromofluorobenzene 10.0	70-120	97	89	82	97	91

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 8010/8020 REPORTING UNIT: ug/L

	Date Analyzed	05-25-04	05-25-04	05-24-04	05-24-04	05-24-04
	Date Extracted	05-25-04	05-25-04	05-24-04	05-24-04	05-24-04
	Lab Sample ID	129633	129634	129635	129636	129637
	Client Sample ID	MW-5	MW-6	MW-8	MW-1	MW-7
	Extraction Solvent	N/A	N/A	N/A	N/A	N/A
	Extraction Method	5030	5030	5030	5030	5030
	Dilution Factor	5	5	1	2500	1
COMPOUND	RDL					
1,1,1,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	0.5	<0.5	<0.5	<0.5	95000	<0.5
Tetrachloroethene (PCE)	0.5	2.5	<0.5	2.6	<0.5	0.9
1,1,1-Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene(TCE)	0.5	2.5	<0.5	1.3	<0.5	1.6
Krichlorofluoromethane	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes	1.0	<1.0	<1.0	<1.0	178000	<1.0
SURROGATE SPK CONC	% QC	% REC	% REC	% REC	% REC	% REC
Bromofluorobenzene 10.0	70-120	97	89	82	97	91

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 8010/8020 REPORTING UNIT: ug/L

	Date Analyzed	05-24-04	05-25-04	05-25-04	05-25-04	
	Date Extracted	05-24-04	05-25-04	05-25-04	05-25-04	
	Lab Sample ID	129638	129639	129640	129641	
	Client Sample ID	MW-11	MW-2	MW-3	Dup-1	
	Extraction Solvent	N/A	N/A	N/A	N/A	
	Extraction Method	5030	5030	5030	5030	
	Dilution Factor	1	500	200	1	
COMPOUND	PQL					
Benzene	0.5	<0.5	<0.5	<0.5	<0.5	
Bromobenzene	0.5	<0.5	<0.5	<0.5	<0.5	
Bromodichloromethane	0.5	<0.5	<0.5	<0.5	<0.5	
Bromoform	1.0	<1.0	<1.0	<1.0	<1.0	
Bromomethane	1.0	<1.0	<1.0	<1.0	<1.0	
Carbon Tetrachloride	0.5	<0.5	<1.0	<0.5	8.2	
Chlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	
Chloroethane	1.0	<1.0	<1.0	<1.0	<1.0	
Chloroform	0.5	2.5	<0.5	<0.5	15.2	
Chloromethane	1.0	<1.0	<1.0	<1.0	<1.0	
Dibromochloromethane	0.5	<0.5	<0.5	<0.5	<0.5	
Dibromomethane	0.5	<0.5	<0.5	<0.5	<0.5	
1,2-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	
1,3-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	
1,4-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	
Dichlorodifluoromethane	0.5	<0.5	<0.5	<0.5	<0.5	
1,1-Dichloroethane(1,1DCA)	0.5	<0.5	<0.5	<0.5	<0.5	
1,2-Dichloroethane(1,2DCA)	0.5	9.0	650	140	17.6	
1,1-Dichloroethylene(1,1DCE)	0.5	1.0	<0.5	<0.5	<0.5	
Cis 1,2-Dichloroethene	0.5	<0.5	<0.5	<0.5	<0.5	
Trans 1,2-Dichloroethene	0.5	<0.5	<0.5	<0.5	<0.5	
1,2-Dichloropropane	0.5	<0.5	<0.5	<0.5	<0.5	
Cis 1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5	
Trans 1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	<0.5	
Ethylbenzene	0.5	<0.5	5500	5280	<0.5	
Methylene Chloride	2.0	<2.0	<2.0	<2.0	<2.0	
SURROGATE SPK CONC	ACP%	%REC	%REC	%REC	%REC	
Bromofluorobenzene 10.0	70-120	98	105	114	106	

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 8010/8020 REPORTING UNIT: ug/L

	Date Analyzed	05-24-04	05-25-04	05-25-04	05-25-04	
	Date Extracted	05-24-04	05-25-04	05-25-04	05-25-04	
	Lab Sample ID	129638	129639	129640	129641	
	Client Sample ID	MW-11	MW-2	MW-3	Dup-1	
	Extraction Solvent	N/A	N/A	N/A	N/A	
	Extraction Method	5030	5030	5030	5030	
	Dilution Factor	1	1	200	1	
COMPOUND	CRDL					
1,1,1,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	<0.5	
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	<0.5	
Toluene	0.5	<0.5	35400	14000	<0.5	
Tetrachloroethene (PCE)	0.5	14.9	<0.5	0.7	2.7	
1,1,1-Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5	
1,1,2-Trichloroethane	0.5	<0.5	<0.5	<0.5	<0.5	
Trichloroethene(TCE)	0.5	7.0	<0.5	<0.5	1.4	
Trichlorofluoromethane	1.0	<1.0	<1.0	<1.0	<1.0	
1,2,3-Trichloropropane	0.5	<0.5	<0.5	<0.5	<0.5	
Vinyl Chloride	0.5	<0.5	<0.5	<0.5	<0.5	
Xylenes	1.0	<0.5	25500	19800	<1.0	
SURROGATE SPK CONC	ACP%	%REC	%REC	%REC	%REC	
Bromofluorobenzene 10.0	70-120	98	105	114	106	

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 8010/8020 REPORTING UNIT: ug/L

	Date Analyzed	05-24-04	05-25-04	
	Date Extracted	05-24-04	05-25-04	
	Lab Sample ID	Method Blank	Method Blank	
	Client Sample ID			
	Extraction Solvent	H_2O	H_2O	
	Extraction Method	5030	5030	
	Dilution Factor	1	1	
COMPOUNDS	CRDL			
Benzene	0.5	<0.5	<0.5	
Bromobenzene	0.5	<0.5	<0.5	
Bromodichloromethane	0.5	<0.5	<0.5	
Bromoform	1.0	<1.0	<1.0	
Bromomethane	1.0	<1.0	<1.0	
Carbon Tetrachloride	0.5	<0.5	<0.5	
Chlorobenzene	0.5	<0.5	<0.5	
Chloroethane	1.0	<1.0	<1.0	
Chloroform	0.5	<0.5	<0.5	
Chloromethane	1.0	<1.0	<1.0	
Dibromochloromethane	0.5	<0.5	<0.5	
Dibromomethane	0.5	<0.5	<0.5	
1,2-Dichlorobenzene	0.5	<0.5	<0.5	
1,3-Dichlorobenzene	0.5	<0.5	<0.5	
1,4-Dichlorobenzene	0.5	<0.5	<0.5	
Dichlorodifluoromethane	0.5	<0.5	<0.5	
1,1-Dichloroethane(1,1DCA)	0.5	<0.5	<0.5	
1,2-Dichloroethane(1,2DCA)	0.5	<0.5	<0.5	
1,1-Dichloroethylene(1,1DCE)	0.5	<0.5	<0.5	
Cis 1,2-Dichloroethene	0.5	<0.5	<0.5	
Trans 1,2-Dichloroethene	0.5	<0.5	<0.5	
1,2-Dichloropropane	0.5	<0.5	<0.5	
Cis 1,3-Dichloropropene	0.5	<0.5	<0.5	
Trans 1,3-Dichloropropene	0.5	<0.5	<0.5	
Ethylbenzene	0.5	<0.5	<0.5	
Methylene Chloride	2.0	<2.0	<2.0	
SURROGATE SPK CONC	% ACP	% REC	% REC	
Bromofluorobenzene 10.0	70-120	103	98	

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 8010/8020 REPORTING UNIT: ug/L

	Date Analyzed	05-24-04	05-25-04	
	Date Extracted	05-24-04	05-25-04	
	Lab Sample ID	Method Blank	Method Blank	
	Client Sample ID			
	Extraction Solvent	H_2O	H_2O	
	Extraction Method	5030	5030	
	Dilution Factor	1	1	
COMPOUND	CRDL			
1,1,1,2-Tetrachloroethane	0.5	<0.5	<0.5	
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	
Toluene	0.5	<0.5	<0.5	
Tetrachloroethene (PCE)	0.5	<0.5	<0.5	
1,1,1-Trichloroethane	0.5	<0.5	<0.5	
1,1,2Trichloroethane	0.5	<0.5	<0.5	
Trichloroethene(TCE)	0.5	<0.5	<0.5	
Trichlorofluoromethane	1.0	<1.0	<1.0	
1,2,3-Trichloropropane	0.5	<0.5	<0.5	
Vinyl Chloride	0.5	<0.5	<0.5	
Xylenes	1.0	<1.0	<1.0	
SURROGATE STANDARD CONC	% REC	% REC	% REC	
Bromofluorobenzene 10.0	70-120	103	98	

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

QA/QC REPORT

CALIBRATION STANDARD

(A). INITIAL CALIRATION

DATE PERFORMED: 04-06-04
STANDARD SUPPLY SOURCE: SUPELCO
INSTRUMENT ID: HP 6890 GC

ANALYTICAL METHOD: 8010 /8020
DATE OF SOURCE: Feb-2003,Jan-2003
LOT NUMBER: LB-10255 LB-09455

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

QA/QC REPORT (Continued)

Matrix Spike(MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 05-24-04
BATCH#:
LAB SAMPLE ID: 129621

ANALYTICAL METHOD: 8010/8020
UNIIT: (Circle one)ug/kg ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene	0	10.0	9.8	98	10.0	10.1	101	3.0	75-120%	0-12.0
Chlorobenzene	0	10.0	9.1	91	10.0	9.6	96	5.3	75-120%	0-12.0
1,1 Dichloroethene	0	10.0	7.7	77	10.0	8.5	85	9.9	75-120%	0-12.0
Toluene	0	10.0	9.7	97	10.0	10.2	102	5.0	75-120%	0-12.0
Trichlorethene	0	10.0	9.0	90	10.0	9.8	98	8.5	75-120%	0-12.0

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 05-24-04

ANALYTICAL METHOD: 8010/8020

SUPPLY SOURCE: Supelco
LOT NUMBER: LB10867
DATE OF SOURCE: Mar-2003

LAB LCS ID: 8260 STD 20ppb LCS
Circle One) ug/kg ug/L

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	20.0	19.8	99	80-120%
Chlorobenzene	20.0	18.0	90	80-120%
1,1 Dichloroethene	20.0	22.2	111	80-120%
Toluene	20.0	19.4	97	80-120%
Trichlorethene	20.0	18.6	93	80-120%

ASL JOB NO: 22030
PROJECT NAME: Pilot Chemical

QA/QC REPORT (Continued)

Matrix Spike(MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 05-25-04
BATCH#:
LAB SAMPLE ID: 129608

ANALYTICAL METHOD: 8010/8020
UNITT: (Circle one)ug/kg ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene	0	10.0	8.4	84	10.0	8.5	85	1.2	75-120%	0-12.0
Chlorobenzene	0	10.0	8.5	85	10.0	8.6	86	1.2	75-120%	0-12.0
1,1 Dichloroethene	0	10.0	8.2	82	10.0	8.3	83	1.2	75-120%	0-12.0
Toluene	0	10.0	8.4	84	10.0	8.5	85	1.2	75-120%	0-12.0
Trichlorethene	0	10.0	8.6	86	10.0	9.1	91	5.6	75-120%	0-12.0

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 05-25-04

ANALYTICAL METHOD: 8010/8020

SUPPLY SOURCE: Supelco
LOT NUMBER: LB10867
DATE OF SOURCE: Mar-2003

LAB LCS ID: 8260 STD 20ppb LCS
Circle One) ug/kg ug/L

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	20.0	20.2	101	80-120%
Chlorobenzene	20.0	19.8	99	80-120%
1,1 Dichloroethene	20.0	16.0	80	80-120%
Toluene	20.0	20.4	102	80-120%
Trichlorethene	20.0	19.8	99	80-120%

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 1)

LABORATORY NAME: AMERICAN SCIENTIFIC LABORATORIES, LLC

ADDRESS: 2520 N. SAN FERNANDO RD., LA CA 90065

TELEPHONE/FAX: TEL:323/223-9700 FAX:323/223-9500

ELAP CERTIFICATION NO. 2200 EXPIRATION DATE:1-31-2005

AUTHORIZED SIGNATURE
NAME, TITLE(print) ROJERT G. ARAGHI (Laboratory Director)

SIGNATURE, DATE Robert G. Araghi 7-28-04

CLIENT NAME: PACIFIC EDGE ENGINEERING

PROJECT NAME: PILOT CHEMICAL

PROJECT NUMBER: 0019

ASL JOB NO: 22053

DATE SAMPLED: 05/19/04 09/19/04
DATE RECEIVED: 05/19/04 TO 05/19/04
DATE REPORTED: 05/27/04

CHAIN OF CUSTODY RECEIVED: YES_X__ NO___

COMMENTS:

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

ORGANIC ANALYSES	# OF SAMPLES 3	#OF SAMPLES SUBCONTRACTED

SAMPLE CONDITION: GOOD

INORGANIC ANALYSES	# OF SAMPLES 3	#OF SAMPLES SUBCONTRACTED

SAMPLE CONDITION: GOOD

MICROBIOLOGICAL ANALYSES	#OF SAMPLES	#OF SAMPLES SUBCONTRACTED

SAMPLE CONDITION:

OTHER TYPES OF ANALYSES	#OF SAMPLES	#OF SAMPLES SUBCONTRACTED

SAMPLE CONDITION:

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR pH

Method: 150.1 | Date Analyzed : 05-20-04

Prep (TCLP, CAI-WET,_ DM) | CRDL: 1.00

Parameter: pH | Reporting Unit: pH Units

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DILUTION FACTOR	RESULT
129823	MW-10	Water	1.00	6.83
129824	MW-9	Water	1.00	7.23
129825	MW-4	Water	1.00	7.28

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR SURFACTANTS(MBAS)

Method: 425.1 | Date Analyzed : 05-20-04

Prep (TCLP, CAl-WET,_ DM) | CRDL: 0.05

Parameter: Surfactants(MBAS) | Reporting Unit: mg/L

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DILUTION FACTOR	RESULT
Method Blank		Water	1.00	<0.050
129823	MW-10	Water	1.00	47.5
129824	MW-9	Water	1.00	0.88
129825	MW-4	Water	1.00	0.55

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD:8015M/DHSLUFT REPORTING UNIT: mg/L

	Date Analyzed	05-20-04	05-20-04	05-20-04		
	Date Extracted	05-20-04	05-20-04	05-20-04		
	Lab Sample ID	129823	129824	129825		
	Client Sample ID	MW-10	MW-9	MW-4		
	Extraction Solvent	CH_2CL_2	CH_2CL_2	CH_2CL_2		
	Extraction Method	3510C	3510C	3510C		
	Dilution Factor	1	1	1		
COMPOUND	CRDL					
TPH DRO(C13-C22)	0.5	<0.5	<0.5	<0.5		
TPH ORO(C22+)	0.5	<0.5	<0.5	<0.5		
SURROGATE	SPK CONC	ACP %	%REC	%REC	%REC	%REC	%REC
BROMOFLUOROBENZNE	10.0	70-120	117	109	108		

ASL JOB NO: 12261
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD:8015M/DHSLUFT REPORTING UNIT: mg/L

	Date Analyzed	05-20-04			
	Date Extracted	05-20-04			
	Lab Sample ID	Method Blank			
	Client Sample ID				
	Extraction Solvent	CH_2CL_2			
	Extraction Method	3510C			
	Dilution Factor	1			
COMPOUND	**CRDL**				
TPH DRO(C13-C22)	0.5	<0.5			
TPH ORO(C22+)	0.5	<0.5			
SURROGATE SPK CONC	**ACP%**	**%REC**			
BROMOFLUOROBENZNE 10.0	70-120	91			

QA/QC REPORT (Continued)

Matrix Spike(MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 05-20-04
BATCH#: One
LAB SAMPLE ID: 129529

ANALYTICAL METHOD: 8015M/DHSLUFT

UNIT: (Circle one)ug/kg mg/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Diesel	0	500	545	560	500	109	112	2.7	80-120%	0-12.0

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 05-20-04

ANALYTICAL METHOD: 8015M/DHSLUFT

SUPPLY SOURCE: EM Science
LOT NUMBER: EPF00072-1
DATE OF SOURCE: N/A

LAB LCS ID: Diesel STD 300ppm LCS
UNIT: (Circle One) ug/kg ug/L

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Diesel	300	240	80	80-120%

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

QA/QC REPORT

CALIBRATION STANDARD

(A). INITIAL CALIRATION

DATE PERFORMED: 12-31-2003
STANDARD SUPPLY SOURCE: RESTEK
INSTRUMENT ID: HP 6890 GC

ANALYTICAL METHOD: 8015M/DHSLUFT
DATE OF SOURCE: N/A
LOT NUMBER: A029129

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 601/602 REPORTING UNIT: ug/L

	Date Analyzed	05-26-04	05-25-04	05-25-04	
	Date Extracted	05-26-04	05-25-04	05-25-04	
	Lab Sample ID	129823	129824	129825	
	Client Sample ID	MW-10	MW-9	MW-4	
	Extraction Solvent	N/A	N/A	N/A	
	Extraction Method	5030	5030	5030	
	Dilution Factor	200	1	1	
COMPOUND	CRDL				
Benzene	0.5	<0.5	<0.5	<0.5	
Bromobenzene	0.5	<0.5	<0.5	<0.5	
Bromodichloromethane	0.5	<0.5	<0.5	<0.5	
Bromoform	1.0	<1.0	<1.0	<1.0	
Bromomethane	1.0	<1.0	<1.0	<1.0	
Carbon Tetrachloride	0.5	<0.5	<0.5	<0.5	
Chlorobenzene	0.5	<0.5	<0.5	<0.5	
Chloroethane	1.0	<1.0	<1.0	<1.0	
Chloroform	0.5	<0.5	1.4	<0.5	
Chloromethane	1.0	<1.0	<1.0	<1.0	
Dibromochloromethane	0.5	<0.5	<0.5	<0.5	
Dibromomethane	0.5	<0.5	<0.5	<0.5	
1,2-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	
1,3-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	
1,4-Dichlorobenzene	0.5	<0.5	<0.5	<0.5	
Dichlorodifluoromethane	0.5	<0.5	<0.5	<0.5	
1,1-Dichloroethane(1,1DCA)	0.5	<0.5	13.5	<0.5	
1,2-Dichloroethane(1,2DCA)	0.5	2600	16.1	27.9	
1,1-Dichloroethylene(1,1DCE)	0.5	<0.5	1.5	<0.5	
Cis 1,2-Dichloroethene	0.5	<0.5	3.7	<0.5	
Trans 1,2-Dichloroethene	0.5	<0.5	<0.5	<0.5	
1,2-Dichloropropane	0.5	<0.5	<0.5	<0.5	
Cis 1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	
Trans 1,3-Dichloropropene	0.5	<0.5	<0.5	<0.5	
Ethylbenzene	0.5	180	<0.5	<0.5	
Methylene Chloride	2.0	<2.0	<2.0	<2.0	
SURROGATE SPK CONC	ACP%	%REC	%REC	%REC	
Bromofluorobenzene 10.0	70-120	101	100	101	

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 8010/8020 REPORTING UNIT: ug/L

	Date Analyzed	05-26-04	05-25-04	05-25-04	
	Date Extracted	05-26-04	05-25-04	05-25-04	
	Lab Sample ID	129823	129824	129825	
	Client Sample ID	MW-10	MW-9	MW-4	
	Extraction Solvent	N/A	N/A	N/A	
	Extraction Method	5030	5030	5030	
	Dilution Factor	200	1	1	
COMPOUND	GRDL				
1,1,1,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	<0.5	
Toluene	0.5	<0.5	<0.5	<0.5	
Tetrachloroethene (PCE)	0.5	<0.5	1.2	1.0	
1,1,1-Trichloroethane	0.5	<0.5	<0.5	<0.5	
1,1,2Trichloroethane	0.5	<0.5	<0.5	<0.5	
Trichloroethene(TCE)	0.5	<0.5	79.3	2.2	
Krichlorofluoromethane	1.0	<1.0	<1.0	<1.0	
1,2,3-Trichloropropane	0.5	<0.5	<0.5	<0.5	
Vinyl Chloride	0.5	<0.5	<0.5	<0.5	
Xylenes	1.0	480	<1.0	<1.0	
SURROGATE SPIKE CONC	% REC	% REC	% REC	% REC	
Bromofluorobenzene 10.0	70-120	101	100	101	

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 8010/8020

REPORTING UNIT: ug/L

	Date Analyzed	05-25-04	05-26-04	
	Date Extracted	05-25-04	05-26-04	
	Lab Sample ID	Method Blank	Method Blank	
	Client Sample ID			
	Extraction Solvent	H_2O	H_2O	
	Extraction Method	5030	5030	
	Dilution Factor	1	1	
COMPOUND	CRDL			
Benzene	0.5	<0.5	<0.5	
Bromobenzene	0.5	<0.5	<0.5	
Bromodichloromethane	0.5	<0.5	<0.5	
Bromoform	1.0	<1.0	<1.0	
Bromomethane	1.0	<1.0	<1.0	
Carbon Tetrachloride	0.5	<0.5	<0.5	
Chlorobenzene	0.5	<0.5	<0.5	
Chloroethane	1.0	<1.0	<1.0	
Chloroform	0.5	<0.5	<0.5	
Chloromethane	1.0	<1.0	<1.0	
Dibromochloromethane	0.5	<0.5	<0.5	
Dibromomethane	0.5	<0.5	<0.5	
1,2-Dichlorobenzene	0.5	<0.5	<0.5	
1,3-Dichlorobenzene	0.5	<0.5	<0.5	
1,4-Dichlorobenzene	0.5	<0.5	<0.5	
Dichlorodifluoromethane	0.5	<0.5	<0.5	
1,1-Dichloroethane(1,1DCA)	0.5	<0.5	<0.5	
1,2-Dichloroethane(1,2DCA)	0.5	<0.5	<0.5	
1,1-Dichloroethylene(1,1DCE)	0.5	<0.5	<0.5	
Cis 1,2-Dichloroethene	0.5	<0.5	<0.5	
Trans 1,2-Dichloroethene	0.5	<0.5	<0.5	
1,2-Dichloropropane	0.5	<0.5	<0.5	
Cis 1,3-Dichloropropene	0.5	<0.5	<0.5	
Trans 1,3-Dichloropropene	0.5	<0.5	<0.5	
Ethylbenzene	0.5	<0.5	<0.5	
Methylene Chloride	2.0	<2.0	<2.0	
SURROGATE SPIKE CONC	% REC LIMITS	% REC	% REC	
Bromofluorobenzene 10.0	70-120	98	100	

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

ANALYTICAL RESULT FOR ORGANICS

METHOD: 8010/8020 REPORTING UNIT: ug/L

	Date Analyzed	05-25-04	05-26-04	
	Date Extracted	05-25-04	05-26-04	
	Lab Sample ID	Method Blank	Method Blank	
	Client Sample ID			
	Extraction Solvent	H_2O	H_2O	
	Extraction Method	5030	5030	
	Dilution Factor	1	1	
COMPOUND	CRDL			
1,1,1,2-Tetrachloroethane	0.5	<0.5	<0.5	
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5	
Toluene	0.5	<0.5	<0.5	
Tetrachloroethene (PCE)	0.5	<0.5	<0.5	
1,1,1-Trichloroethane	0.5	<0.5	<0.5	
1,1,2Trichloroethane	0.5	<0.5	<0.5	
Trichloroethene(TCE)	0.5	<0.5	<0.5	
Trichlorofluoromethane	1.0	<1.0	<1.0	
1,2,3-Trichloropropane	0.5	<0.5	<0.5	
Vinyl Chloride	0.5	<0.5	<0.5	
Xylenes	1.0	<1.0	<1.0	
SURROGATE SPIKE CONC	ACCEPTANCE	%REC	%REC	
Bromofluorobenzene 10.0	70-120	98	100	

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

QA/QC REPORT

CALIBRATION STANDARD

(A). INITIAL CALIRATION

DATE PERFORMED: 04-06-04
STANDARD SUPPLY SOURCE: SUPELCO
INSTRUMENT ID: HP 6890 GC

ANALYTICAL METHOD: 8010 /8020
DATE OF SOURCE: Feb-2003,Jan-2003
LOT NUMBER: LB-10255,LB-09455

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

QA/QC REPORT (Continued)

Matrix Spike(MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 05-25-04
BATCH#:
LAB SAMPLE ID: 129608

ANALYTICAL METHOD: 8010/8020
UNIIT: (Circle one)ug/kg ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene	0	10.0	9.6	96	10.0	9.9	99	3.1	75-120%	0-12.0
Chlorobenzene	0	10.0	9.8	98	10.0	9.3	93	5.2	75-120%	0-12.0
1,1 Dichloroethene	0	10.0	10.5	105	10.0	9.3	93	12.1	75-120%	0-12.0
Toluene	0	10.0	9.9	99	10.0	9.9	99	1.0	75-120%	0-12.0
Trichlorethene	0	10.0	9.6	96	10.0	9.6	96	7.6	75-120%	0-12.0

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 05-25-04

ANALYTICAL METHOD: 8010/8020

SUPPLY SOURCE: Supelco
LOT NUMBER: LB10867
DATE OF SOURCE: Mar,2003

LAB LCS ID: 8260 STD 20ppb LCS
Circle One) ug/kg ug/L

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	20.0	20.2	101	80-120%
Chlorobenzene	20.0	19.4	97	80-120%
1,1 Dichloroethene	20.0	16.0	80	80-120%
Toluene	20.0	20.4	102	80-120%
Trichlorethene	20.0	19.8	99	80-120%

ASL JOB NO: 22053
PROJECT NAME: Pilot Chemical

QA/QC REPORT (Continued)

Matrix Spike(MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 05-26-04
BATCH#:
LAB SAMPLE ID: 129608

ANALYTICAL METHOD: 8010/8020

UNIIT: (Circle one)ug/kg ug/L

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene	0	10.0	9.4	94	10.0	9.4	94	<1	75-120%	0-12.0
Chlorobenzene	0	10.0	8.8	88	10.0	8.6	89	1.1	75-120%	0-12.0
1,1 Dichloroethene	0	10.0	10.2	102	10.0	8.3	112	9.3	75-120%	0-12.0
Toluene	0	10.0	9.5	95	10.0	8.5	94	1.1	75-120%	0-12.0
Trichlorethene	0	10.0	9.0	90	10.0	9.1	92	2.2	75-120%	0-12.0

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 05-26-04

ANALYTICAL METHOD: 8010/8020

SUPPLY SOURCE: Supelco
LOT NUMBER: LB10867
DATE OF SOURCE: Mar-2003

LAB LCS ID: 8260 STD 20ppb LCS
Circle One) ug/kg ug/L

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene	20.0	19.6	98	80-120%
Chlorobenzene	20.0	18.0	90	80-120%
1,1 Dichloroethene	20.0	23.6	118	80-120%
Toluene	20.0	19.6	98	80-120%
Trichlorethene	20.0	19.0	95	80-120%

Appendix C

Disposal Manifest

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD008267823 — Manifest Document No.:
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PILOT CHEMICAL CO.
11756 BURKE ST.
SANTA FE SPRINGS CA 90670
4. Generator's Phone: 562 945-1867

A. State Manifest Document Number: 23831191
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone: 562-427-7277
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (310) 637-7100

5. Transporter 1 Company Name: ENVIRONMENTAL RECOVERY SERVICES, INC.
6. US EPA ID Number: CA000097039 2
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address
DEMENNO KERDOON
2000 NORTH ALAMEDA STREET
COMPTON CA 90222
10. US EPA ID Number: CAT000013382

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste Number
a. NON RCRA HAZARDOUS WASTE, LIQUID (WATER, OIL)	001	TP	00210	G	State / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

[redacted]

15. Special Handling Instructions and Additional Information
EMERGENCY CALL ENVIROSERV 1-562-427-7277
** BILL TO ENVIRONMENTAL RECOVERY SERVICES ** USE PROPER SAFETY EQUIPMENT ERS W.O. # 19124 **GW**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JAIME — Signature: [signature] — Month 06 Day 29 Year 04

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: STEPHEN TRUMAN — Signature: [signature] — Month 06 Day 29 Year 04

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Month Day Year

DO NOT WRITE BELOW THIS LINE.

GENERATOR — TRANSPORTER — FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

23831191

Blue to DTSC 6-30-04

DTSC 8022A (1/99)
EPA 8700—22

Yellow: GENERATOR RETAINS