

AP - 105

**WT-1 Station
Dehy Area**

2012 AGWMR

03/29/2013



March 29, 2013

Mr. Glenn von Gonten
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Report of 2012 Groundwater Remediation Activities
WT-1 Station Dehy Area
Transwestern Pipeline Company, LLC
Lea County, New Mexico
Case #AP-105 (formerly GW-109)

Dear Glenn,

The enclosed Report of 2012 Groundwater Remediation Activities is submitted for your review and files.

If you have any questions or comments regarding this report, please contact me at (281) 797-3421 or Larry Campbell at (575) 625-8022.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment:	Richard Spell	Transwestern Pipeline Company
	Larry Campbell	Transwestern Pipeline Company
	Geoffrey R Leking	NMOCD Hobbs District Office

Report of 2012 Groundwater Remediation Activities

**Transwestern Pipeline Company
WT-1 Compressor Station Dehy Area
Lea County, New Mexico**

CASE # AP-105

**Submitted to:
New Mexico Oil Conservation Division**

March 25, 2013

Prepared For:
Transwestern Pipeline Company, LLC
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Roswell, NM 88201

Prepared by:
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TABLE OF CONTENTS

Section	Page
1. Introduction.....	1
2. Groundwater Monitoring Activities.....	1
2.1 Groundwater Sampling Events.....	1
2.2 Results/Conclusions from Groundwater Sampling Events	1
2.2.1 Occurrence and Direction of Groundwater Flow.....	1
2.2.2 Lateral Extent of Phase Separated Hydrocarbon	1
2.2.3 Condition of Affected Groundwater	2
3. Status of Remediation Activities	3
3.1 Remediation Activities Completed through December 2012.....	3
3.2 Remediation Activities Planned for January 2013 through December 2013	3
4. Proposed Modifications	3
4.1 Modifications to the Routine Groundwater Sampling Plan.....	3
4.2 Modifications to the Remediation System.....	3
4.3 Reporting Frequency	3

LIST OF FIGURES

Figure

- 1** Facility Site Map
- 2** Site Diagram – Dehydration Area
- 3** Groundwater Elevations – June 26, 2012
- 4** Distribution of PSH – June 26, 2012
- 5** Distribution of BTEX – June 26, 2012
- 6** Hydrograph for Monitoring Wells
- 7** Measured Depth to PSH & Water at Well MW-10
- 8** Measured Depth to PSH & Water at Well SVE-5
- 9** Measured Depth to PSH & Water at Well SVE-11
- 10** Measured Depth to PSH & Water at Well SVE-12
- 11** Concentration History Plot for Well SVE-13
- 12** Concentration History Plot for Well SVE-14
- 13** SVE System VOC Concentration History

LIST OF TABLES

Table

- 1** Summary of Groundwater Surface Elevations
- 2** Summary of Groundwater Surface Elevations at SVE Wells
- 3** Summary of Groundwater Analyses
- 4** Summary of SVE System Vapor Concentration Monitoring
- 5** Summary of Completion Details for Soil Borings Completed as Wells
- 6** Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan
- 7** Summary for Product Removal Efforts

LIST OF APPENDICES

- A.** Laboratory Reports for Soil Vapor Samples
- B.** Laboratory Reports for Groundwater Samples

1. Introduction

The last report of groundwater remediation activities covered activities completed through December 2011. This report presents a summary of monitoring and remediation activities completed between January 2012 and December 2012.

2. Groundwater Monitoring Activities

2.1 Groundwater Sampling Events

One annual groundwater sampling event was completed during 2012. This event was completed on June 26, 2012.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase-separated hydrocarbons (PSH) were present, was determined for each monitoring well. The measured depth to water and the corresponding water table elevation for each monitoring well are presented in Table 1. Similar measurements obtained from the SVE wells are presented in Table 2.

Groundwater samples were collected from selected monitoring wells in accordance with the sampling analysis plan. Samples were not collected from wells with accumulated PSH in the well casing. Groundwater samples were delivered to a laboratory for analysis for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B. A summary of the laboratory results and field-measured groundwater quality parameters (pH, temperature, electrical conductivity, and dissolved oxygen) are presented in Table 3. A copy of the laboratory results for this sampling event is included in Appendix B.

2.2 Results/Conclusions from Groundwater Sampling Events

2.2.1 Occurrence and Direction of Groundwater Flow

A water table elevation map based on measurements obtained in the course of the June 26, 2012 sampling event is included as Figure 3. The apparent direction of groundwater flow is toward the north and is consistent with water table elevation maps previously developed for this site.

A hydrograph for site monitoring wells is presented in Figure 6. The hydrograph shows a history of water table elevation change since depth to water measurements were first recorded at the site in 1994. The increase in water table elevation beginning in April 2005 is due to a water leak in the facility's fresh water distribution system that was discovered and repaired in early 2008.

2.2.2 Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH is presently defined by the periodic occurrence of PSH at the water table in monitor well MW-10 and wells SVE-5, SVE-11, SVE-12, and SVE-14. The volume and lateral extent of PSH in the area appears to be relatively limited. The thickness of accumulated PSH in wells is presented in Tables 1 and 2. The lateral distribution of PSH measured in wells in the course of the June 2012 sampling event is presented in Figure 4. Also indicated in Figure 4 is the estimated maximum extent of PSH measured in wells at the site. The current lateral extent of

PSH covers a considerably smaller area than the estimated maximum extent indicating that the SVE system has effectively reduced the impacted area.

The accumulation of PSH versus time is presented graphically for wells MW-10, SVE-5, SVE-11, and SVE-12 in Figures 7 through 10, respectively. A similar plot for well SVE-14 is not presented simply because accumulated PSH in this well has never been more than 0.01 feet.

The measured accumulation of PSH in wells has been considerably reduced since December 2008. During 2009 and 2010, a program was implemented to remove accumulated PSH from wells in an effort to evaluate the re-accumulation rate. This effort was successful in demonstrating that PSH would not re-accumulate in previously measured quantities. In June 2012, measurable accumulations of PSH were recorded as 0.05 in well MW-10, 0.06 feet in well SVE-5, 0.58 feet in well SVE-11, and 0.15 feet in well SVE-12. PSH was removed from these wells using an absorbent during the June event. The wells were subsequently gauged on August 31, 2012 and on October 12, 2012 and no re-accumulation of PSH was measured in any of these four wells. This program continues to support the conclusion that there is no mobile PSH near the water table in the affected area. A summary of depth measurements and product removal activities for the PSH removal efforts and subsequent monitoring is presented in Table 7.

2.2.3 Condition of Affected Groundwater

The primary constituent of concern in affected groundwater is benzene. The lateral distribution of benzene in groundwater is presented in Figure 5. The condition of affected groundwater has not changed significantly from previous sampling events as evidenced by the history of sample results presented in Table 3. The three monitor wells located downgradient of the release area (wells MW-11, MW-12, and MW-13) continue to yield groundwater samples that are non-detect for BTEX constituents. Monitor well MW-9, located about 200 feet upgradient of the release area, also yielded samples that are non-detect for BTEX constituents.

The sampling analysis plan for the site identifies three wells within the affected area to be sampled during the annual groundwater sampling event: wells MW-10, SVE-13, and SVE-14. A groundwater sample was not collected from well MW-10 during the June 2012 sampling event due to the presence of PSH in the well casing. A sample was collected from well SVE-14, although a sheen was observed in the purge water generated during sampling activities. Concentration history plots for wells SVE-13 and SVE-14 are presented in Figures 11 and 12, respectively.

In an effort to better define the lateral extent of affected groundwater, samples were collected from five additional SVE wells during the June 2012 sampling event. Two of the wells, SVE-8 and SVE-9, are located upgradient of the release area and sample results for these wells were non-detect for benzene. One of the wells, SVE-6, is located side-gradient (east) of the release area and sample results for this well was also non-detect for benzene. Well SVE-10 is located about 20 feet west of monitor well MW-10 which routinely contains a measurable accumulation of PSH; sample results for this well indicated a benzene concentration of 1200 ppb. Well SVE-2 is located about 75 feet downgradient of the release area and sample results for this well indicated a benzene concentration of 540 ppb. In light of these sample results, wells SVE-2 and SVE-10 have been added to the routine annual groundwater sampling analysis plan.

3. Status of Remediation Activities

3.1 Remediation Activities Completed through December 2012

The following remediation activities were completed since the last report of remediation activities:

- 1) Operation of the SVE system is limited to the warmer weather months. Condensed water collecting in the SVE conveyance lines during cold weather made the system ineffective. Thus, the SVE system was operated from July 3, 2012 through October 12, 2012.
- 2) Four vapor samples were collected from the SVE system during 2012. A summary of laboratory results for the SVE system is presented in Table 4. A concentration history plot for SVE vapor samples is included as Figure 13. It is apparent from the concentration history plot that the concentration of Volatile Organic Compounds (VOCs) has declined significantly since the remediation system was first placed in-service in June 1996. Laboratory results for SVE system samples also indicate that during 2012, the system was removing VOCs from the subsurface at an estimated rate of about 58 gallons equivalent per month. A copy of the laboratory reports for SVE system samples is included in Appendix A.

3.2 Remediation Activities Planned for January 2013 through December 2013

The SVE system is scheduled to operate from May 2013 through October 2013.

4. Proposed Modifications

4.1 Modifications to the Routine Groundwater Sampling Plan

Wells SVE-2 and SVE-10 have been added to the routine annual groundwater Sampling Analysis Plan (SAP). Annual sampling will continue in accordance with the SAP presented in Table 6.

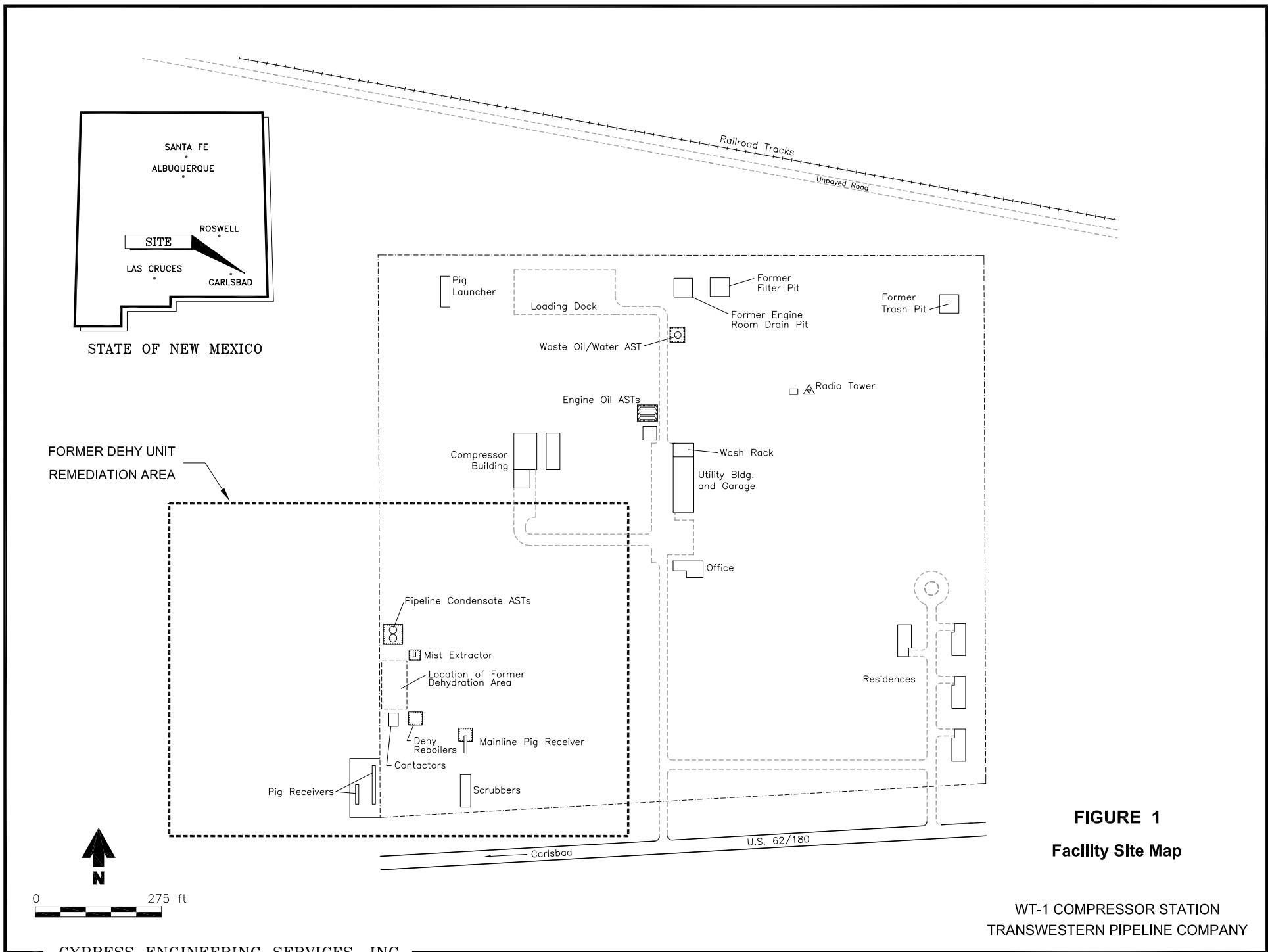
4.2 Modifications to the Remediation System

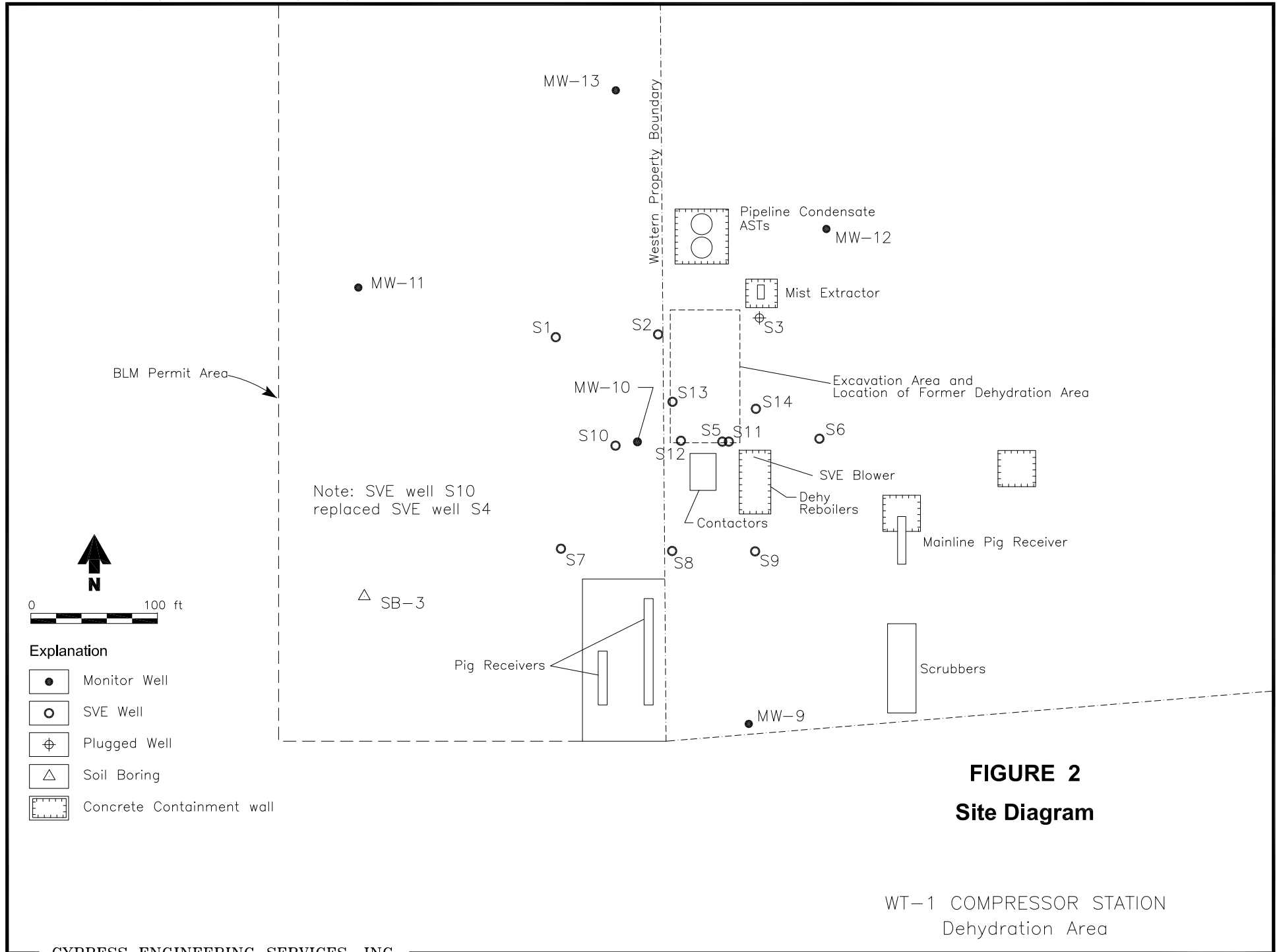
Currently there are no modifications to the remediation system scheduled for 2013; however, site remediation efforts will continue to be evaluated in an effort to further define future remediation activities.

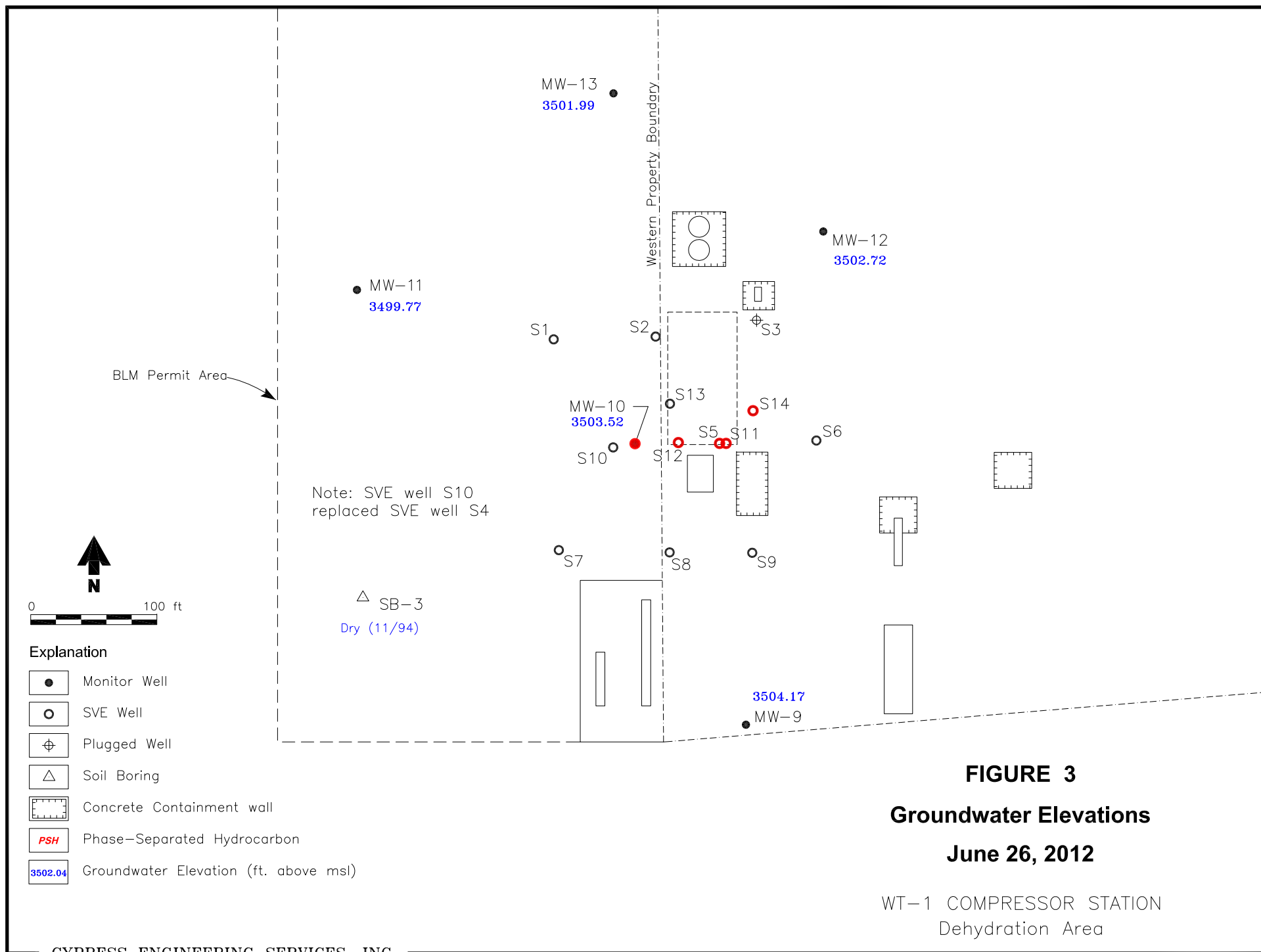
4.3 Reporting Frequency

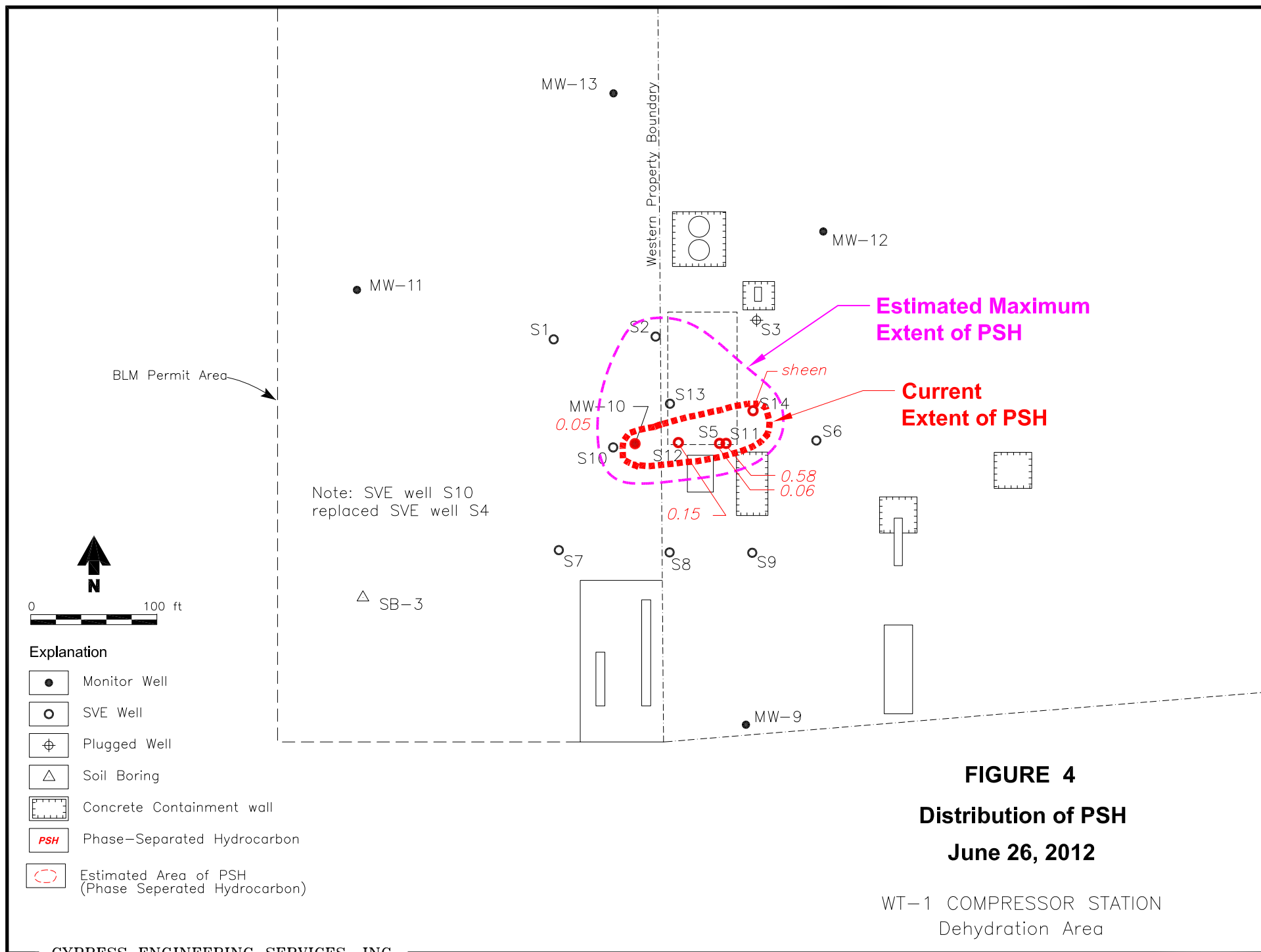
Annual reporting of remediation activities will continue with the next scheduled report submitted to the OCD by April 1, 2014.

FIGURES









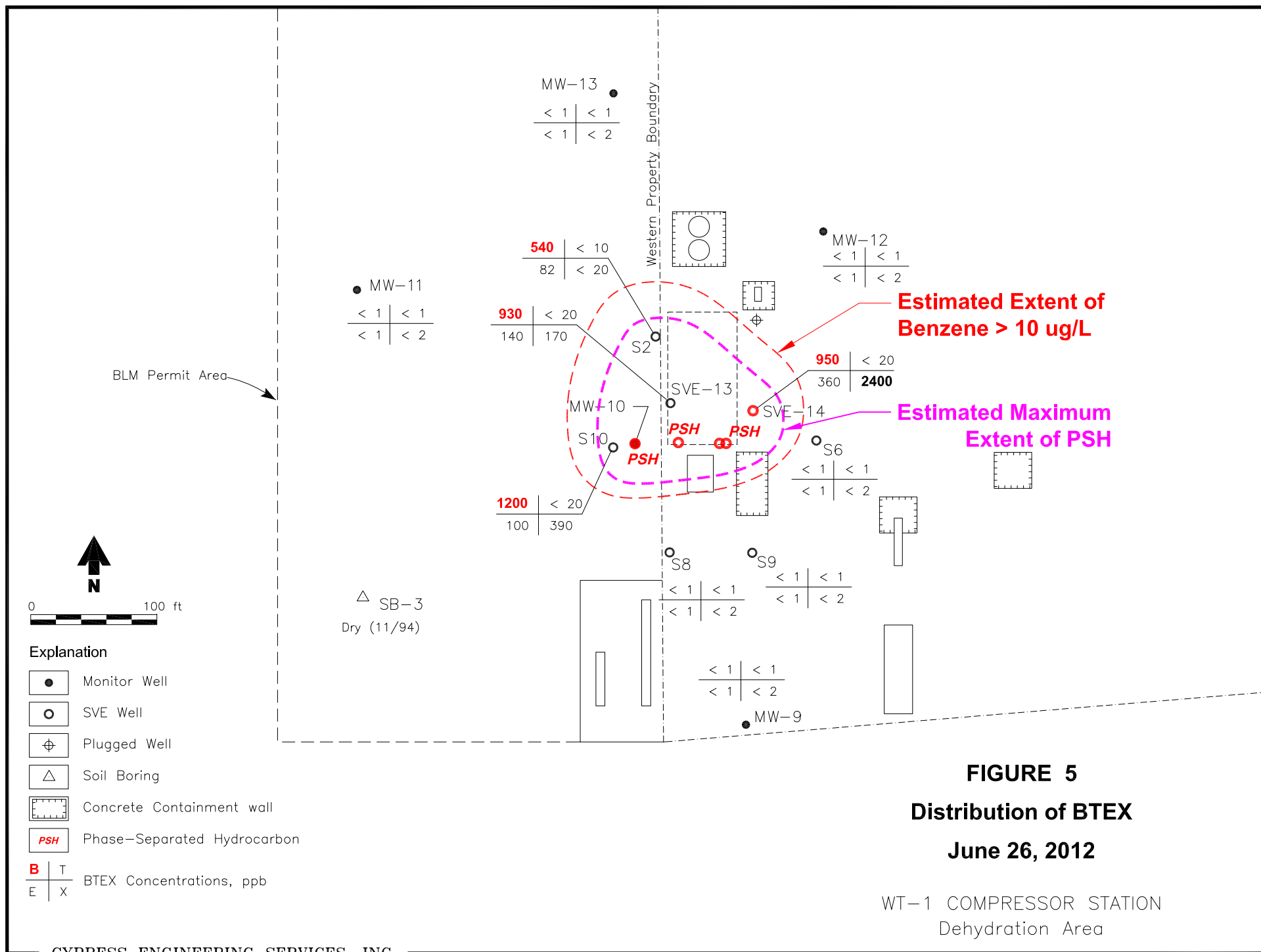


FIGURE 5
Distribution of BTEX
June 26, 2012

Hydrograph for Monitoring Wells WT-1 Station Dehy Area

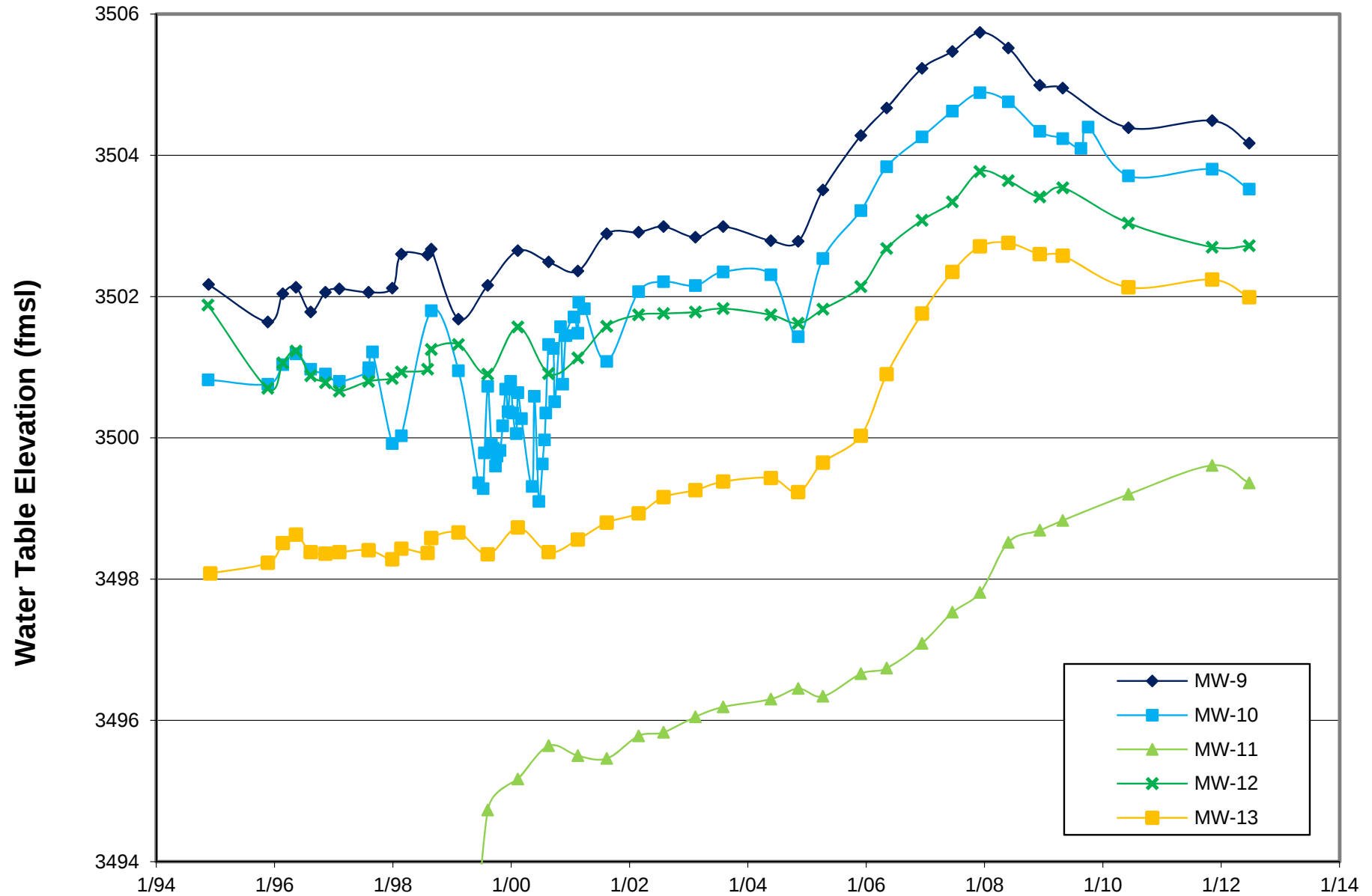


Figure 6

Measured Depth to PSH & Water at Well MW-10 WT-1 Station Dehy Area

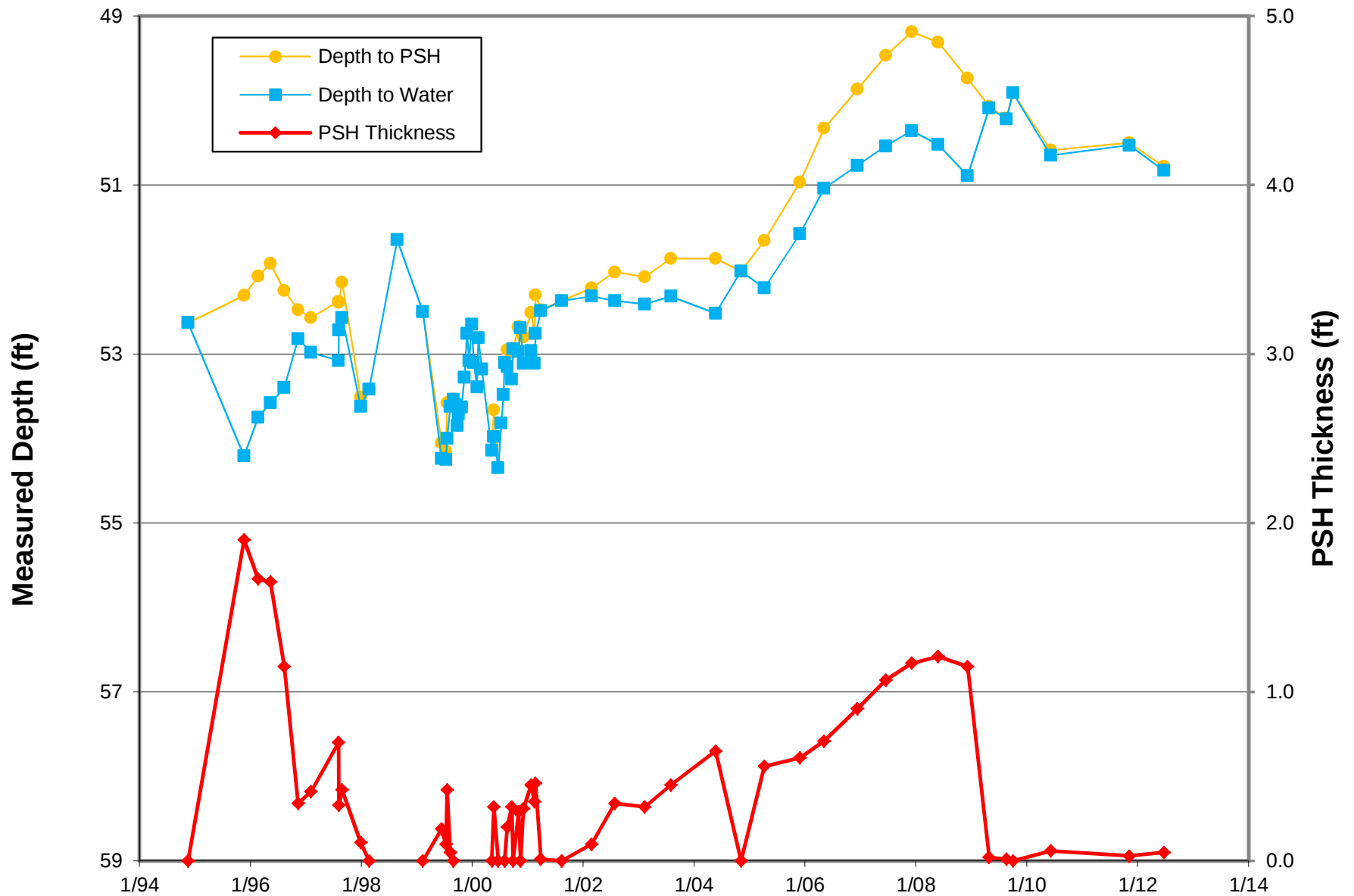


Figure 7

Measured Depth to PSH & Water at Well SVE-5 WT-1 Station Dehy Area

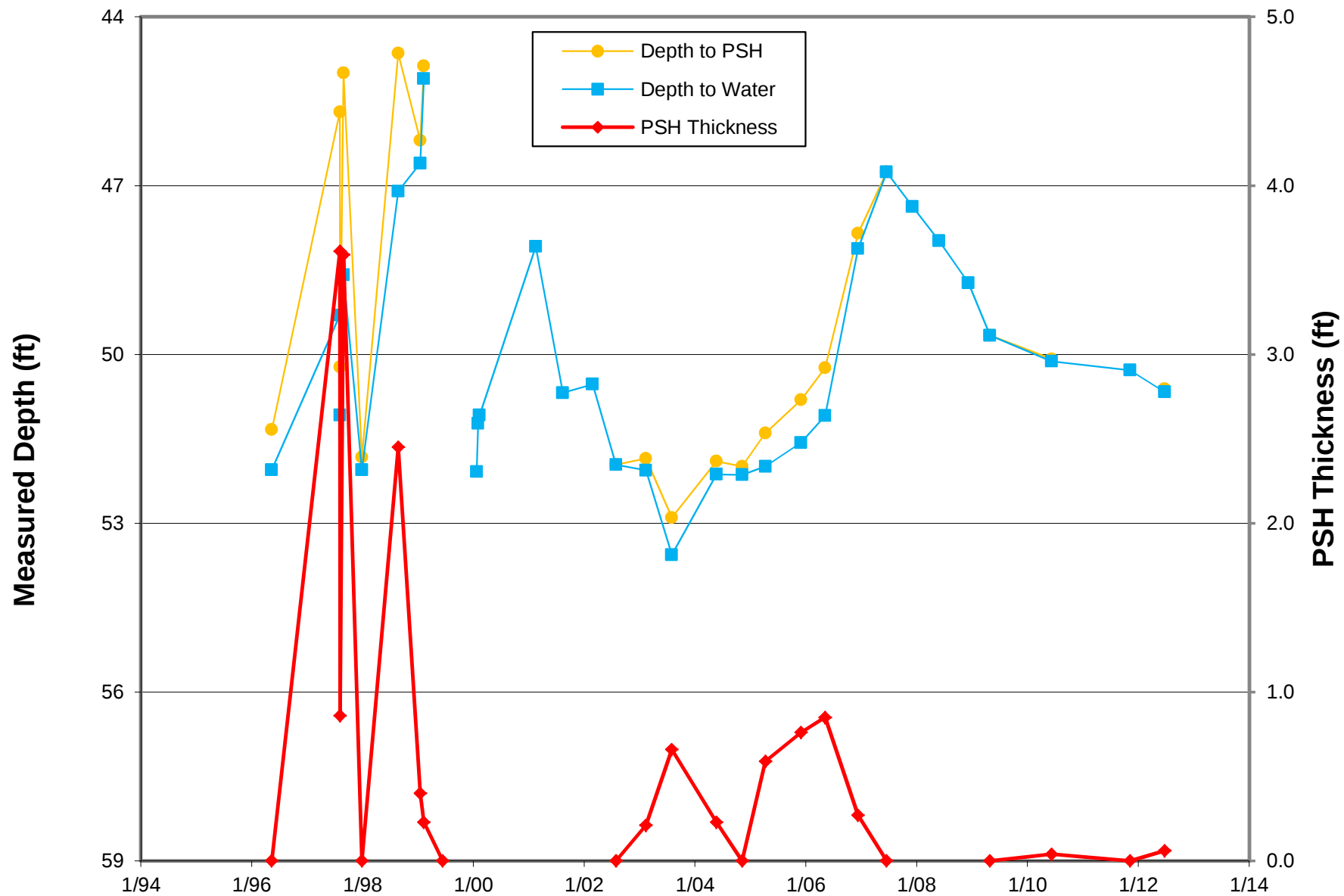


Figure 8

Measured Depth to PSH & Water at Well SVE-11 WT-1 Station Dehy Area

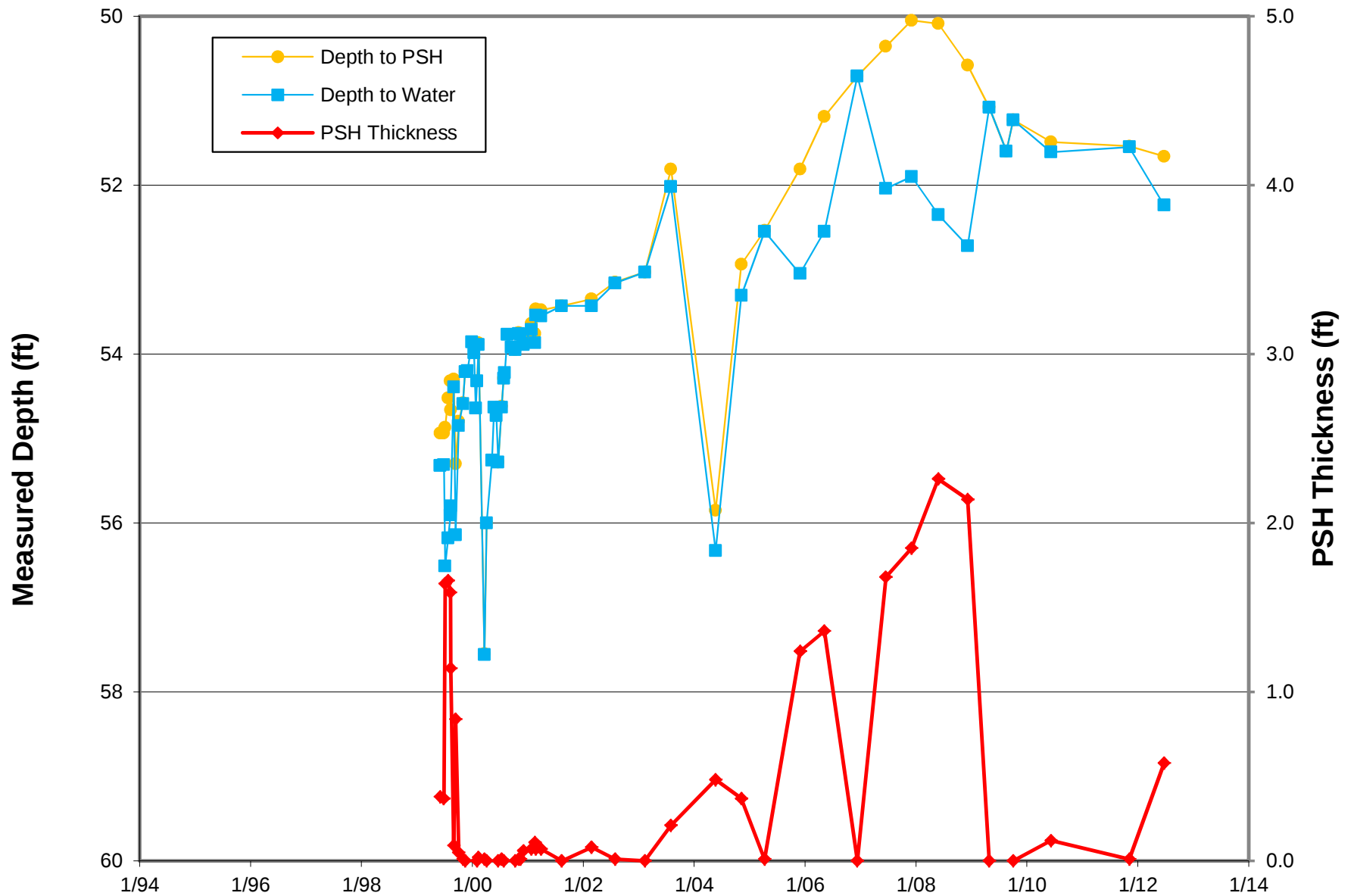


Figure 9

Measured Depth to PSH & Water at Well SVE-12 WT-1 Station Dehy Area

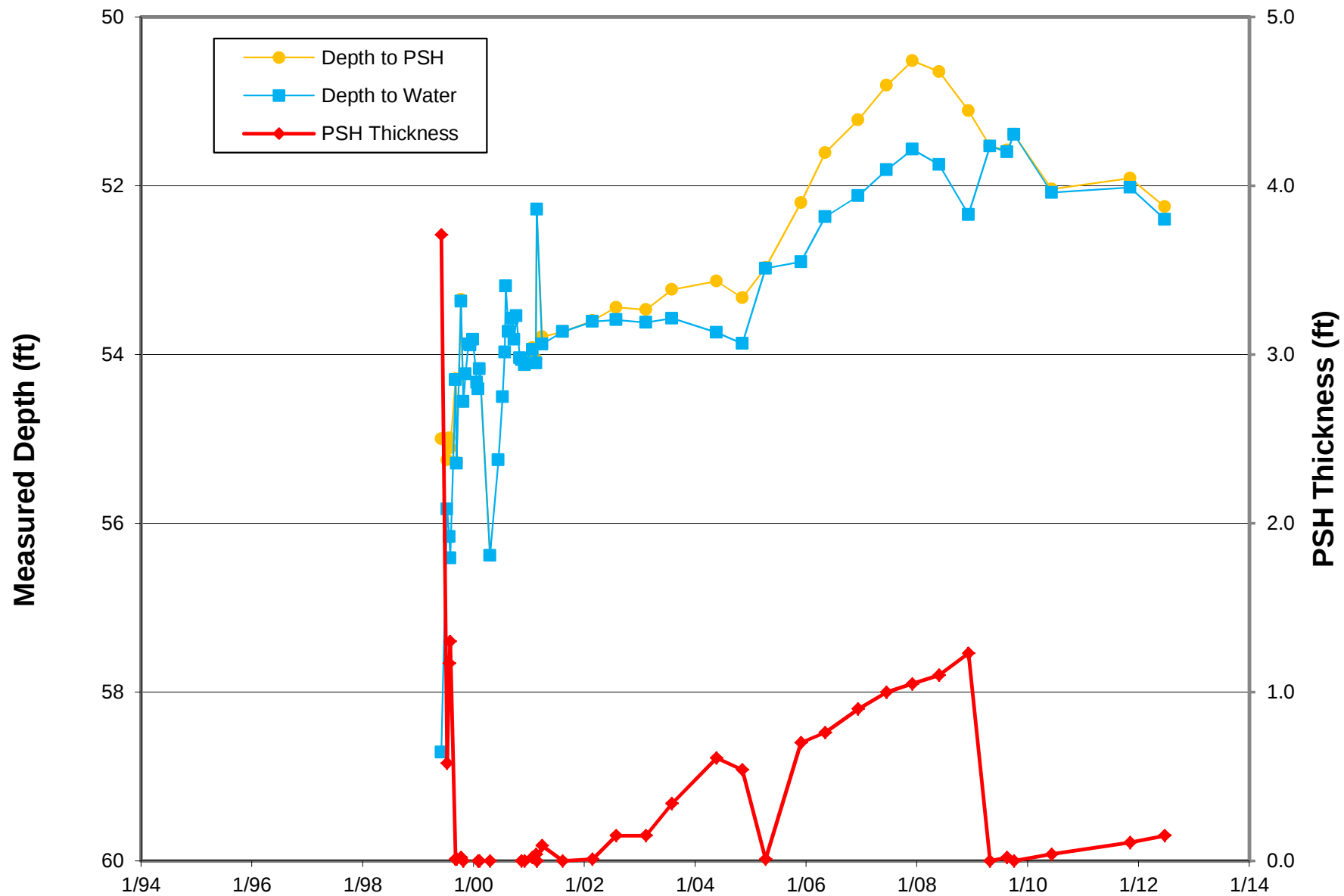


Figure 10

Concentration History Plot for Well SVE-13 WT-1 Station Dehy Area

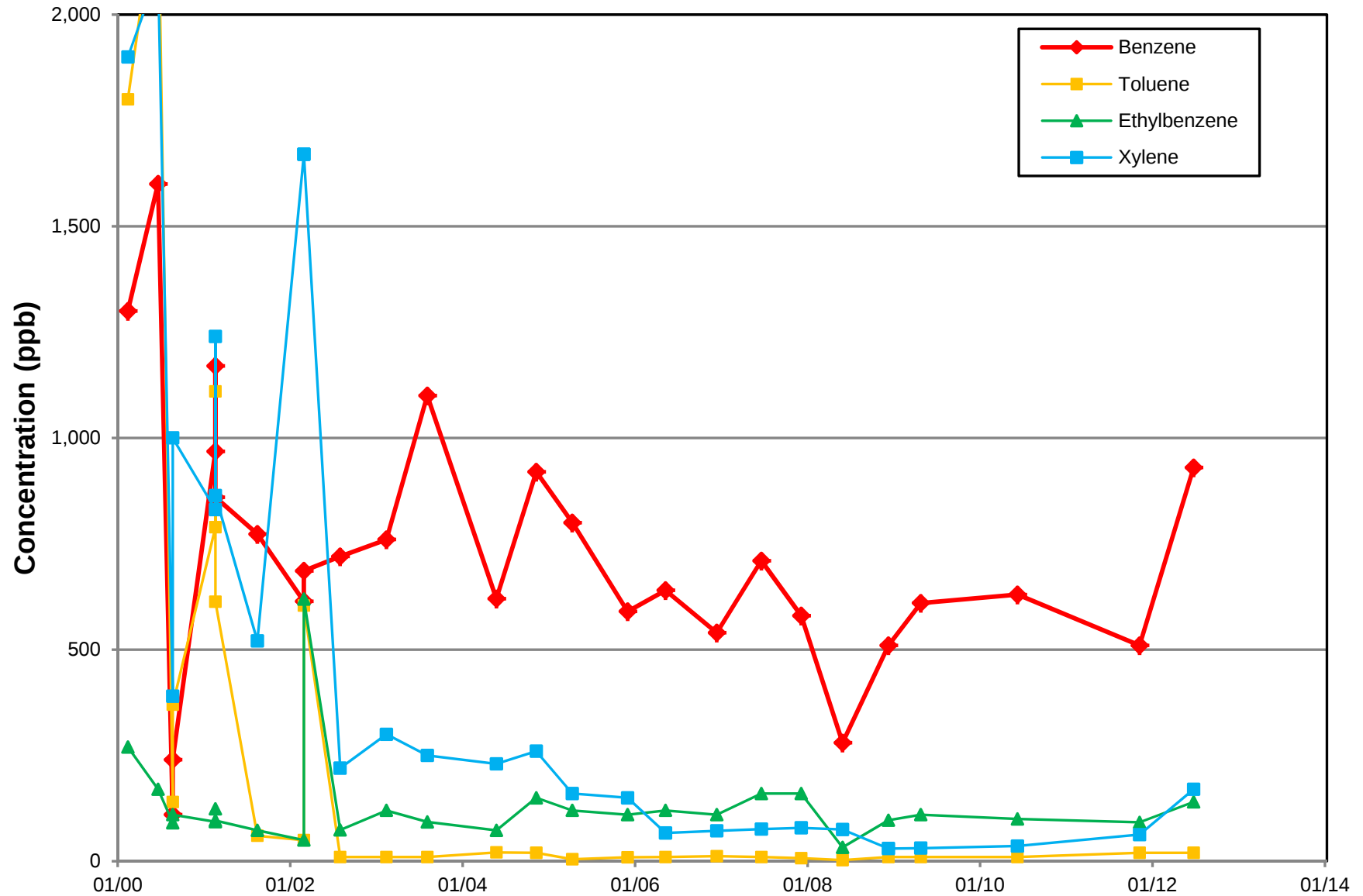


Figure 11

Concentration History Plot for Well SVE-14
WT-1 Station Dehy Area

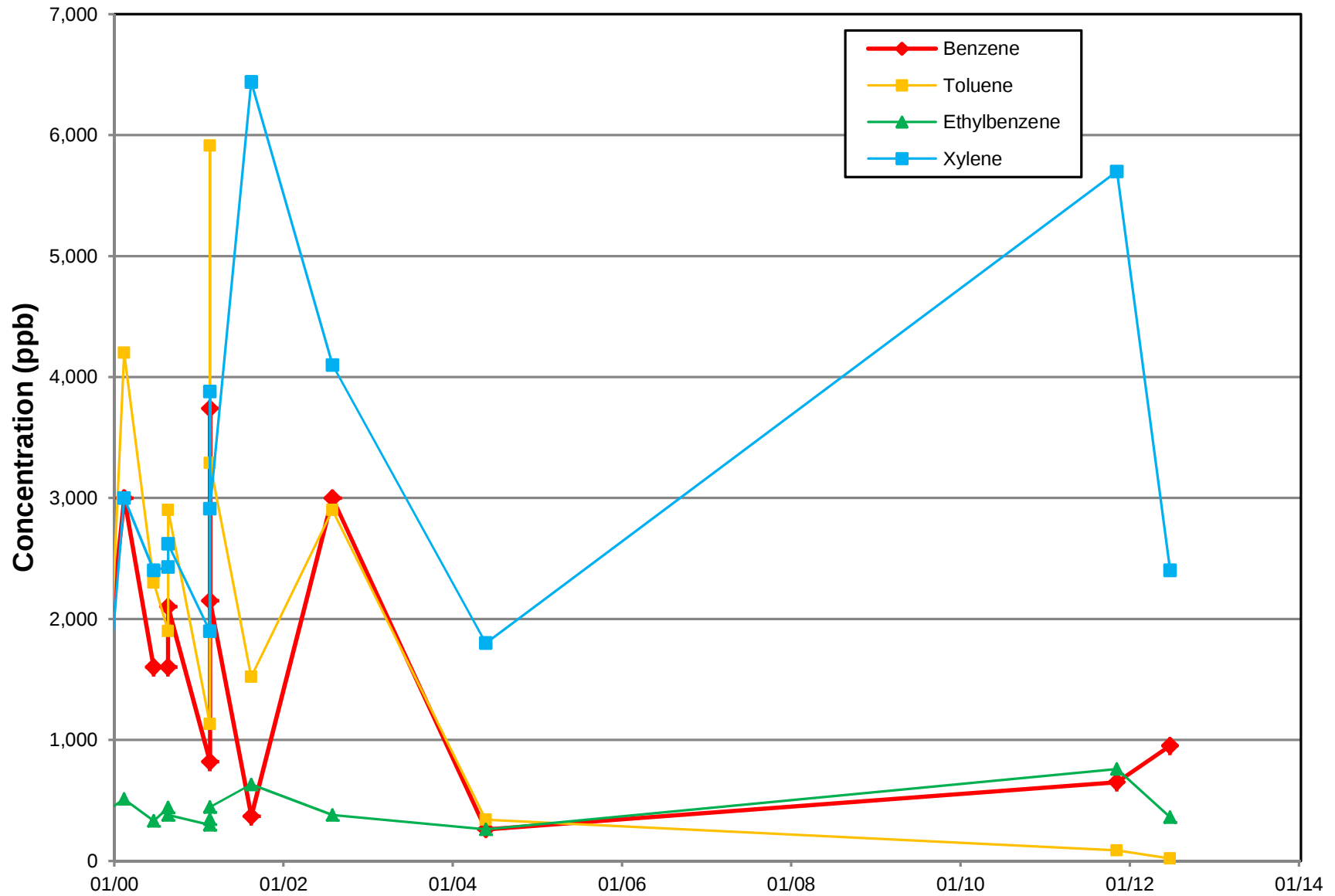


Figure 12

SVE System VOC Concentration History WT-1 Station Dehy Area

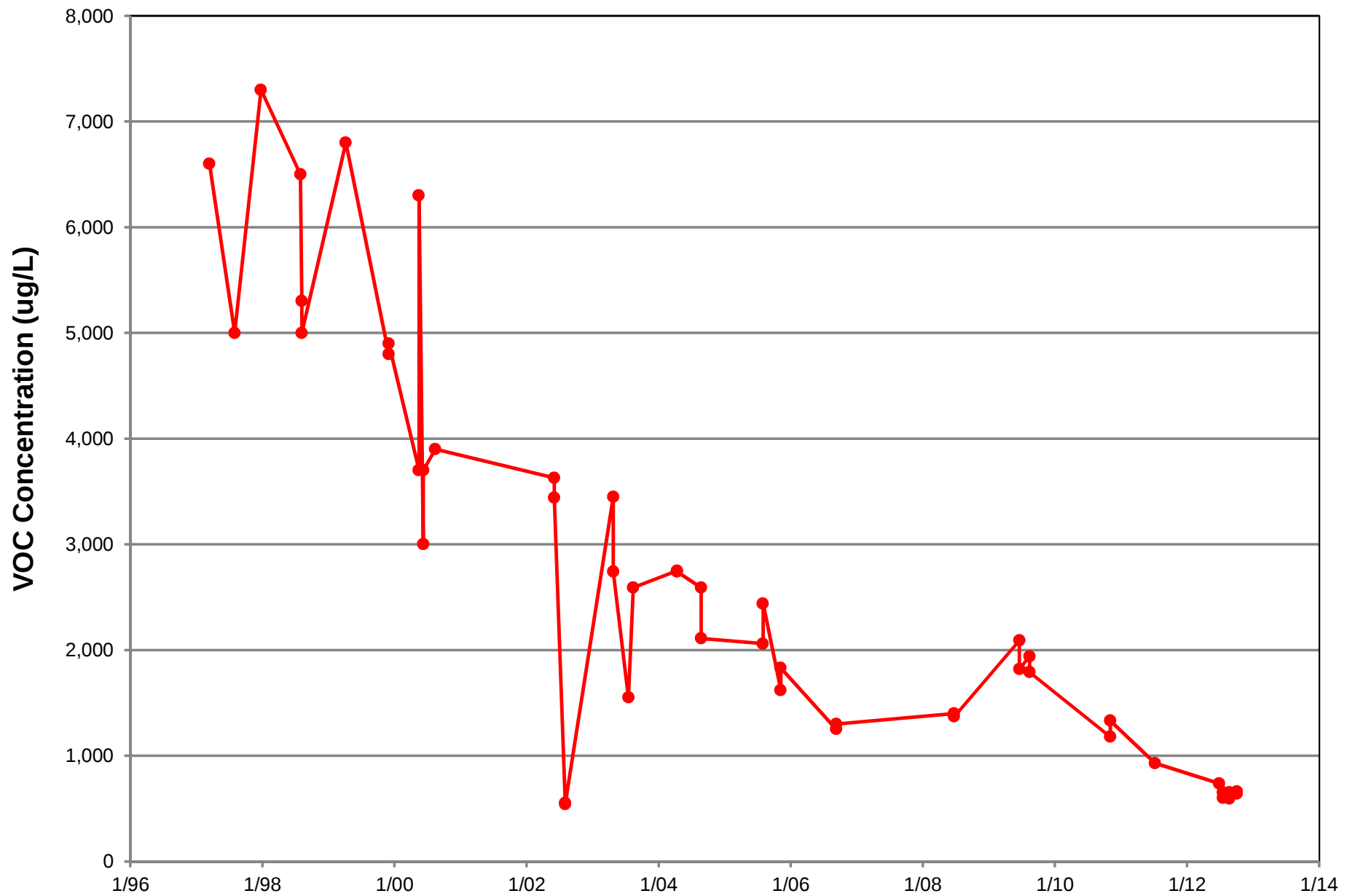


Figure 13

TABLES

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-9	11/21/94	3557.31 (b)	(a)	55.14	(a)	3502.17
	11/21/95		(a)	55.67	(a)	3501.64
	02/22/96		(a)	55.27	(a)	3502.04
	05/14/96		(a)	55.18	(a)	3502.13
	08/12/96		(a)	55.53	(a)	3501.78
	11/12/96		(a)	55.25	(a)	3502.06
	02/05/97		(a)	55.20	(a)	3502.11
	08/05/97		(a)	55.25	(a)	3502.06
	12/29/97		(a)	55.19	(a)	3502.12
	02/23/98*		(a)	54.71	(a)	3502.60
	08/05/98*		(a)	54.72	(a)	3502.59
	08/27/98		(a)	54.64	(a)	3502.67
	02/11/99*		(a)	55.63	(a)	3501.68
	08/11/99*		(a)	55.15	(a)	3502.16
	02/13/00*		(a)	54.66	(a)	3502.65
	08/21/00*		(a)	54.82	(a)	3502.49
	02/17/01*		(a)	54.95	(a)	3502.36
	08/15/01		(a)	54.42	(a)	3502.89
	02/27/02*		(a)	54.40	(a)	3502.91
	07/31/02*		(a)	54.32	(a)	3502.99
	02/13/03*		(a)	54.47	(a)	3502.84
	08/04/03*		(a)	54.32	(a)	3502.99
	05/24/04*		(a)	54.52	(a)	3502.79
	11/09/04*		(a)	54.53	(a)	3502.78
	04/11/05*		(a)	53.80	(a)	3503.51
	12/01/05*		(a)	53.03	(a)	3504.28
	05/10/06*		(a)	52.64	(a)	3504.67
	12/14/06*		(a)	52.08	(a)	3505.23
	06/20/07*		(a)	51.84	(a)	3505.47
	12/07/07*		(a)	51.57	(a)	3505.74
	05/30/08*		(a)	51.79	(a)	3505.52
	12/10/08*		(a)	52.32	(a)	3504.99
	05/01/09*		(a)	52.36	(a)	3504.95
	06/11/10*		(a)	52.92	(a)	3504.39
	11/10/11*		(a)	52.82	(a)	3504.49
	06/26/12*		(a)	53.14	(a)	3504.17

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-10	11/18/94	3553.45 (b)	(a)	52.63	(a)	3500.82
	11/21/95		52.31	54.21	1.90	3500.76
	02/22/96		52.08	53.75	1.67	3501.04
	05/14/96		51.93	53.58	1.65	3501.19
	08/12/96		52.25	53.40	1.15	3500.97
	11/12/96		52.48	52.82	0.34	3500.90
	02/05/97		52.57	52.98	0.41	3500.80
	08/05/97		52.38	53.08	0.70	3500.93
	08/07/97		52.39	52.72	0.33	3500.99
	08/29/97		52.15	52.57	0.42	3501.22
	12/29/97		53.51	53.62	0.11	3499.92
	02/23/98*		(a)	53.42	(a)	3500.03
	08/27/98		(a)	51.65	(a)	3501.80
	02/11/99*		(a)	52.50	(a)	3500.95
	06/15/99		54.05	54.24	0.19	3499.36
	07/13/99		54.15	54.25	0.10	3499.28
	07/22/99		53.58	54.00	0.42	3499.79
	08/11/99*	3554.31 (c)	53.57	53.62	0.05	3500.73
	09/02/99		(a)	53.54	(a)	3499.91
	09/14/99		(a)	53.60	(a)	3499.85
	09/28/99		(a)	53.85	(a)	3499.60
	10/07/99		(a)	53.71	(a)	3499.74
	10/26/99		(a)	53.63	(a)	3499.82
	11/11/99		(a)	53.28	(a)	3500.17
	11/30/99		(a)	52.76	(a)	3500.69
	12/14/99		(a)	53.08	(a)	3500.37
	12/30/99		(a)	52.65	(a)	3500.80
	01/13/00		(a)	53.10	(a)	3500.35
	02/03/00		(a)	53.39	(a)	3500.06
	02/13/00*		(a)	52.81	(a)	3500.64
	03/06/00		(a)	53.18	(a)	3500.27
	05/11/00		(a)	54.14	(a)	3499.31
	05/25/00		53.66	53.98	0.32	3500.59
	06/22/00		(a)	54.35	(a)	3499.10
	07/13/00		(a)	53.82	(a)	3499.63
	07/27/00		(a)	53.48	(a)	3499.97
	08/03/00		(a)	53.10	(a)	3500.35
	08/21/00*		52.95	53.15	0.20	3501.32
	09/19/00		52.98	53.30	0.32	3501.27
	09/28/00		(a)	52.94	(a)	3500.51
	11/03/00		52.68	52.97	0.29	3501.57
	11/16/00		(a)	52.69	(a)	3500.76
	12/06/00		52.80	53.11	0.31	3501.45

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-10 (cont.)	01/25/01		52.51	52.96	0.45	3501.71
	02/17/01*		52.76	53.11	0.35	3501.48
	02/23/01		52.30	52.76	0.46	3501.92
	03/30/01		52.48	52.49	0.01	3501.83
	08/15/01		(a)	52.37	(a)	3501.08
	02/27/02*		52.22	52.32	0.10	3502.07
	07/31/02*		52.03	52.37	0.34	3502.21
	02/13/03*		52.09	52.41	0.32	3502.16
	08/04/03*		51.87	52.32	0.45	3502.35
	05/24/04*		51.87	52.52	0.65	3502.31
	11/09/04*		(a)	52.02	sheen	3501.43
	04/11/05*		51.66	52.22	0.56	3502.54
	12/01/05*		50.97	51.58	0.61	3503.22
	05/10/06*		50.33	51.04	0.71	3503.84
	12/14/06*		49.87	50.77	0.90	3504.26
	06/20/07*		49.47	50.54	1.07	3504.63
	12/07/07*		49.19	50.36	1.17	3504.89
	05/30/08*		49.31	50.52	1.21	3504.76
	12/10/08*		49.74	50.89	1.15	3504.34
	05/01/09*		50.07	50.09	0.02	3504.24
	08/22/09*		50.21	50.22	0.01	3504.10
	10/05/09*		49.91	49.91	sheen	3504.40
	06/11/10*		50.59	50.65	0.06	3503.71
	11/10/11*		50.50	50.53	0.03	3503.80
	06/26/12*		50.78	50.83	0.05	3503.52

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-11	11/21/94	3547.84 (b)	(a)	DRY	(a)	DRY
	11/21/95		(a)	58.10	(a)	3489.74
	02/22/96		(a)	56.70	(a)	3491.14
	05/14/96		(a)	57.33	(a)	3490.51
	08/12/96		(a)	56.96	(a)	3490.88
	11/12/96		(a)	56.66	(a)	3491.18
	02/05/97		(a)	57.09	(a)	3490.75
	08/05/97		(a)	54.93	(a)	3492.91
	12/29/97		(a)	54.53	(a)	3493.31
	02/23/98*		(a)	53.97	(a)	3493.87
	08/05/98*		(a)	54.37	(a)	3493.47
	08/27/98		(a)	57.48	(a)	3490.36
	02/11/99*		(a)	53.11	(a)	3494.73
	08/11/99*		(a)	52.67	(a)	3495.17
	02/13/00*		(a)	52.20	(a)	3495.64
	08/21/00*		(a)	52.34	(a)	3495.50
	02/17/01*		(a)	52.38	(a)	3495.46
	08/15/01		(a)	52.06	(a)	3495.78
	02/27/02*		(a)	52.01	(a)	3495.83
	07/31/02*		(a)	51.79	(a)	3496.05
	02/13/03*		(a)	51.65	(a)	3496.19
	08/04/03*		(a)	51.54	(a)	3496.30
	05/24/04*		(a)	51.39	(a)	3496.45
	11/09/04*		(a)	51.50	(a)	3496.34
	04/11/05*		(a)	51.18	(a)	3496.66
	12/01/05*		(a)	51.10	(a)	3496.74
	05/10/06*		(a)	50.75	(a)	3497.09
	12/14/06*		(a)	50.31	(a)	3497.53
	06/20/07*		(a)	50.03	(a)	3497.81
	12/07/07*		(a)	49.32	(a)	3498.52
	05/30/08*		(a)	49.15	(a)	3498.69
	12/10/08*		(a)	49.01	(a)	3498.83
	05/01/09*		(a)	48.64	(a)	3499.20
	06/11/10*		(a)	48.23	(a)	3499.61
	11/10/11*		(a)	48.48	(a)	3499.36
	06/26/12*		(a)	48.07	(a)	3499.77

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-12	11/17/94	3551.19 (b)	(a)	49.31	(a)	3501.88
	11/21/95		(a)	50.49	(a)	3500.70
	02/22/96		(a)	50.13	(a)	3501.06
	05/14/96		(a)	49.96	(a)	3501.23
	08/12/96		(a)	50.31	(a)	3500.88
	11/12/96		(a)	50.41	(a)	3500.78
	02/05/97		(a)	50.53	(a)	3500.66
	08/05/97		(a)	50.39	(a)	3500.80
	12/29/97		(a)	50.35	(a)	3500.84
	02/23/98*		(a)	50.26	(a)	3500.93
	08/05/98*		(a)	50.22	(a)	3500.97
	08/27/98		(a)	49.94	(a)	3501.25
	02/11/99*		(a)	49.87	(a)	3501.32
	08/11/99*		(a)	50.29	(a)	3500.90
	02/13/00*		(a)	49.62	(a)	3501.57
	08/21/00*		(a)	50.28	(a)	3500.91
	02/17/01*		(a)	50.06	(a)	3501.13
	08/15/01		(a)	49.61	(a)	3501.58
	02/27/02*		(a)	49.45	(a)	3501.74
	07/31/02*		(a)	49.43	(a)	3501.76
	02/13/03*		(a)	49.41	(a)	3501.78
	08/04/03*		(a)	49.36	(a)	3501.83
	05/24/04*		(a)	49.45	(a)	3501.74
	11/09/04*		(a)	49.57	(a)	3501.62
	04/11/05*		(a)	49.37	(a)	3501.82
	12/01/05*		(a)	49.05	(a)	3502.14
	05/10/06*		(a)	48.51	(a)	3502.68
	12/14/06*		(a)	48.11	(a)	3503.08
	06/20/07*		(a)	47.85	(a)	3503.34
	12/07/07*		(a)	47.42	(a)	3503.77
	05/30/08*		(a)	47.55	(a)	3503.64
	12/10/08*		(a)	47.78	(a)	3503.41
	05/01/09*		(a)	47.65	(a)	3503.54
	06/11/10*		(a)	48.15	(a)	3503.04
	11/10/11*		(a)	48.49	(a)	3502.70
	06/26/12*		(a)	48.47	(a)	3502.72

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-13	12/01/94	3547.78 (b)	(a)	49.70	(a)	3498.08
	11/21/95		(a)	49.55	(a)	3498.23
	02/22/96		(a)	49.27	(a)	3498.51
	05/14/96		(a)	49.15	(a)	3498.63
	08/12/96		(a)	49.40	(a)	3498.38
	11/12/96		(a)	49.42	(a)	3498.36
	02/05/97		(a)	49.40	(a)	3498.38
	08/05/97		(a)	49.37	(a)	3498.41
	12/29/97		(a)	49.50	(a)	3498.28
	02/23/98*		(a)	49.35	(a)	3498.43
	08/05/98*		(a)	49.41	(a)	3498.37
	08/27/98		(a)	49.20	(a)	3498.58
	02/11/99*		(a)	49.12	(a)	3498.66
	08/11/99*		(a)	49.43	(a)	3498.35
	02/13/00*		(a)	49.05	(a)	3498.73
	08/21/00*		(a)	49.40	(a)	3498.38
	02/17/01*		(a)	49.22	(a)	3498.56
	08/15/01		(a)	48.98	(a)	3498.80
	02/27/02*		(a)	48.85	(a)	3498.93
	07/31/02*		(a)	48.62	(a)	3499.16
	02/13/03*		(a)	48.52	(a)	3499.26
	08/04/03*		(a)	48.40	(a)	3499.38
	05/24/04*		(a)	48.35	(a)	3499.43
	11/09/04*		(a)	48.55	(a)	3499.23
	04/11/05*		(a)	48.13	(a)	3499.65
	12/01/05*		(a)	47.75	(a)	3500.03
	05/10/06*		(a)	46.88	(a)	3500.90
	12/14/06*		(a)	46.02	(a)	3501.76
	06/20/07*		(a)	45.43	(a)	3502.35
	12/07/07*		(a)	45.07	(a)	3502.71
	05/30/08*		(a)	45.02	(a)	3502.76
	12/10/08*		(a)	45.18	(a)	3502.60
	05/01/09*		(a)	45.20	(a)	3502.58
	06/11/10*		(a)	45.65	(a)	3502.13
	11/10/11*		(a)	45.54	(a)	3502.24
	06/26/12*		(a)	45.79	(a)	3501.99

NOTES:

PSH - Phase separated hydrocarbon

Corrections to ground water surface elevation for presence of PSH is calculated using a specific gravity of 0.8

(a) Not applicable since no measurable thickness of hydrocarbon is present

(b) Survey by John West Engineering (Hobbs, NM) dated 11/94

(c) Survey by Cypress Engineering dated 08/11/99

"*" Indicates depth measurements on this date were associated with a routine groundwater sampling event

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-1	05/14/96	3551.22 (e)	(a)	51.01	(a)	3500.21
	08/06/97		(a)	49.09	(a)	3502.13
	02/11/99*		(a)	51.52	(a)	3499.70
	08/11/99*		(a)	52.17	(a)	3499.05
	02/13/00*		(a)	51.32	(a)	3499.90
	08/21/00*		(a)	51.85	(a)	3499.37
	02/17/01*		(a)	51.55	(a)	3499.67
	08/15/01		(a)	51.17	(a)	3500.05
	02/27/02*		(a)	50.90	(a)	3500.32
	07/31/02*		(a)	50.79	(a)	3500.43
	02/13/03*		(a)	50.71	(a)	3500.51
	08/04/03*		(a)	50.63	(a)	3500.59
	05/24/04*		(a)	50.80	(a)	3500.42
	11/09/04*		(a)	50.73	(a)	3500.49
	04/11/05*		(a)	50.72	(a)	3500.50
	12/01/05*		(a)	50.44	(a)	3500.78
	05/10/06*		(a)	50.05	(a)	3501.17
	12/14/06*		(a)	48.37	(a)	3502.85
	06/20/07*		(a)	49.09	(a)	3502.13
	12/07/07*		(a)	48.57	(a)	3502.65
	05/30/08*		(a)	48.42	(a)	3502.80
	12/10/08*		(a)	48.43	(a)	3502.79
	05/01/09*		(a)	48.24	(a)	3502.98
	06/11/10*		(a)	48.44	(a)	3502.78
	11/10/11*		(a)	48.70	(a)	3502.52
	06/26/12*		(a)	48.62	(a)	3502.60

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-2	05/14/96	3551.96 (e)	50.63	51.38	0.75	3501.18
	08/06/97		50.95	52.15	1.20	3500.77
	08/07/97		50.93	51.64	0.71	3500.89
	08/29/97		50.75	51.16	0.41	3501.13
	12/29/97		51.02	51.76	0.74	3500.79
	06/26/98		(a)	50.87	(a)	3501.09
	07/13/98		(a)	50.87	(a)	3501.09
	02/11/99*		(a)	50.15	(a)	3501.81
	08/11/99*		(a)	51.26	(a)	3500.70
	02/13/00*		(a)	50.57	(a)	3501.39
	08/21/00*		(a)	50.68	(a)	3501.28
	02/17/01*		(a)	50.55	(a)	3501.41
	08/15/01		(a)	50.07	(a)	3501.89
	07/31/02*		(a)	49.81	(a)	3502.15
	02/13/03*		(a)	49.89	(a)	3502.07
	08/04/03*		(a)	49.68	(a)	3502.28
	05/24/04*		(a)	49.70	(a)	3502.26
	11/09/04*		(a)	49.85	(a)	3502.11
	04/11/05*		(a)	50.31	(a)	3501.65
	12/01/05*		(a)	49.62	(a)	3502.34
	05/10/06*		(a)	48.15	(a)	3503.81
	12/14/06*		(a)	47.82	(a)	3504.14
	06/20/07*		(a)	47.48	(a)	3504.48
	12/07/07*		(a)	47.28	(a)	3504.68
	05/30/08*		(a)	47.40	(a)	3504.56
	12/10/08*		(a)	47.84	(a)	3504.12
	05/01/09*		(a)	47.92	(a)	3504.04
	06/11/10*		(a)	48.56	(a)	3503.40
	11/10/11*		(a)	48.33	(a)	3503.63
	06/26/12*		(a)	48.64	(a)	3503.32
SVE-3	05/14/96	3552.75 (e)	(a)	50.95	(a)	3501.80
	08/06/97		(a)	47.70	(a)	3505.05
	12/29/97		(a)	51.44	(a)	3501.31
	02/11/99*		(a)	46.45	(a)	3506.30
	08/11/99*		(a)	51.03	(a)	3501.72
	02/13/00*		(a)	51.17	(a)	3501.58
	02/17/01*		(a)	51.08	(a)	3501.67
	08/15/01		(a)	50.87	(a)	3501.88
	02/27/02*		(a)	50.61	(a)	3502.14
	07/31/02*		(a)	50.57	(a)	3502.18
	02/13/03*		(a)	50.56	(a)	3502.19
	08/04/03*		(a)	50.46	(a)	3502.29
	05/24/04*		--	TD@41.00	--	--
	11/09/04*		--	TD@41.00	--	--
	12/01/04	(f)	--	--	--	--

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-4	05/14/96	3553.03 (d)	51.91	53.67	1.76	3500.77
	08/06/97		50.56	52.24	1.68	3502.13
	08/07/97		52.84	53.39	0.55	3500.08
	08/29/97		50.50	51.74	1.24	3502.28
	12/29/97		52.02	53.04	1.02	3500.81
	06/26/98		50.58	52.30	1.72	3502.11
	07/13/98		50.52	52.30	1.78	3502.15
	07/24/98		50.38	51.80	1.42	3502.37
	09/23/98		50.11	51.31	1.20	3502.68
	01/07/99		50.70	51.36	0.66	3502.20
	01/27/99		50.65	51.18	0.53	3502.27
SVE-5	05/14/96	3554.39 (e)	51.34	--	--	(a)
	08/06/97		45.69	49.30	3.61	3507.98
	08/07/97		50.22	51.08	0.86	3504.00
	08/29/97		45.00	48.59	3.59	3508.67
	12/29/97		51.83	--	--	(a)
	08/26/98		44.65	47.10	2.45	3509.25
	01/17/99		46.20	46.60	0.40	3508.11
	02/11/99*		44.87	45.10	0.23	3509.47
	06/15/99		<52.05	<52.05	na	na
	07/15/99		<52.05	<52.05	na	na
	08/13/99		<52.05	<52.05	na	na
	09/14/99		<52.05	<52.05	na	na
	10/07/99		<52.05	<52.05	na	na
	11/16/99		<52.05	<52.05	na	na
	12/16/99		<52.05	<52.05	na	na
	01/25/00		(a)	52.08	(a)	3502.31
	02/03/00		(a)	51.23	(a)	3503.16
	02/13/00*		(a)	51.08	(a)	3503.31
	02/17/01*		(a)	48.08	(a)	3506.31
	08/15/01		(a)	50.68	(a)	3503.71
	02/27/02*		(a)	50.53	(a)	3503.86
	07/31/02*		(a)	51.96	(a)	(a)
	02/13/03*		51.85	52.06	0.21	3502.50
	08/04/03*		52.90	53.56	0.66	3501.36
	05/24/04*		51.90	52.13	0.23	3502.44
	11/09/04*		51.99	to TD @ 52.14	--	--
	04/11/05*		51.40	51.99	0.59	3502.87
	12/01/05*		50.81	51.57	0.76	3503.43
	05/10/06*		50.24	51.09	0.85	3503.98
	12/14/06*		47.85	48.12	0.27	3506.49
	06/20/07*		(a)	46.76	(a)	3507.63
	12/07/07*		(a)	47.37	(a)	3507.02
	05/30/08*		(a)	47.98	(a)	3506.41
	12/10/08*		(a)	48.73	(a)	3505.66
	05/01/09*		(a)	49.66	(a)	3504.73
	06/11/10*		50.08	50.12	0.04	3504.30
	11/10/11*		(a)	50.28	(a)	3504.11
	06/26/12*		50.61	50.67	0.06	3503.77

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-6	05/14/96	3553.74 (e)	(a)	54.30	(a)	3499.44
	08/06/97		(a)	49.75	(a)	3503.99
	02/11/99*		(a)	52.05	(a)	3501.69
	08/11/99*		(a)	52.59	(a)	3501.15
	02/13/00*		(a)	51.95	(a)	3501.79
	02/17/01*		(a)	51.88	(a)	3501.86
	08/15/01		(a)	51.36	(a)	3502.38
	02/27/02*		(a)	51.22	(a)	3502.52
	07/31/02*		(a)	51.03	(a)	3502.71
	02/13/03*		(a)	51.16	(a)	3502.58
	08/04/03*		(a)	50.88	(a)	3502.86
	05/24/04*		(a)	51.18	(a)	3502.56
	11/09/04*		(a)	50.99	(a)	3502.75
	04/11/05*		(a)	51.82	(a)	3501.92
	12/01/05*		(a)	49.94	(a)	3503.80
	05/10/06*		(a)	49.45	(a)	3504.29
	12/14/06*		(a)	48.88	(a)	3504.86
	06/20/07*		(a)	48.50	(a)	3505.24
	12/07/07*		(a)	48.18	(a)	3505.56
	05/30/08*		(a)	48.32	(a)	3505.42
	12/10/08*		(a)	48.81	(a)	3504.93
SVE-7	05/01/09*	3553.81 (e)	(a)	48.79	(a)	3504.95
	06/11/10*		(a)	49.31	(a)	3504.43
	11/10/11*		(a)	49.33	(a)	3504.41
	06/26/12*		(a)	49.50	(a)	3504.24
	05/14/96		(a)	53.89	(a)	3499.92
	08/06/97		(a)	51.40	(a)	3502.41
	12/29/97		(a)	54.14	(a)	3499.67
	02/11/99*		(a)	53.65	(a)	3500.16
	08/11/99*		(a)	54.18	(a)	3499.63
	02/13/00*		(a)	53.37	(a)	3500.44
	08/21/00*		(a)	53.98	(a)	3499.83
	02/17/01*		(a)	53.64	(a)	3500.17
	08/15/01		(a)	53.28	(a)	3500.53
	02/27/02*		(a)	52.93	(a)	3500.88
	07/31/02*		(a)	52.87	(a)	3500.94
	02/13/03*		(a)	52.71	(a)	3501.10
	08/04/03*		(a)	52.61	(a)	3501.20
	05/24/04*		(a)	52.63	(a)	3501.18
	11/09/04*		(a)	52.70	(a)	3501.11
	04/11/05*		(a)	52.38	(a)	3501.43
	12/01/05*		(a)	51.85	(a)	3501.96
	05/10/06*		(a)	51.23	(a)	3502.58
	12/14/06*		(a)	50.46	(a)	3503.35
	06/20/07*		(a)	50.04	(a)	3503.77
	12/07/07*		(a)	49.53	(a)	3504.28
	05/30/08*		(a)	49.45	(a)	3504.36
	12/10/08*		(a)	49.71	(a)	3504.10
	05/01/09*		(a)	49.65	(a)	3504.16
	06/11/10*		(a)	50.11	(a)	3503.70
	11/10/11*		(a)	50.15	(a)	3503.66
	06/26/12*		(a)	50.24	(a)	3503.57

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-8	05/14/96	3555.25 (e)	(a)	53.55	(a)	3501.70
	08/06/97		(a)	51.72	(a)	3503.53
	12/29/97		(a)	54.07	(a)	3501.18
	02/11/99*		(a)	53.06	(a)	3502.19
	08/11/99*		(a)	54.02	(a)	3501.23
	02/13/00*		(a)	53.33	(a)	3501.92
	08/21/00*		(a)	53.57	(a)	3501.68
	02/17/01*		(a)	53.34	(a)	3501.91
	08/15/01		(a)	53.08	(a)	3502.17
	02/27/02*		(a)	52.94	(a)	3502.31
	07/31/02*		(a)	52.83	(a)	3502.42
	02/13/03*		(a)	52.86	(a)	3502.39
	08/04/03*		(a)	52.73	(a)	3502.52
	05/24/04*		(a)	52.74	(a)	3502.51
	11/09/04*		(a)	52.87	(a)	3502.38
	04/11/05*		(a)	52.39	(a)	3502.86
	12/01/05*		(a)	51.60	(a)	3503.65
	05/10/06*		(a)	51.07	(a)	3504.18
	12/14/06*		(a)	50.67	(a)	3504.58
	06/20/07*		(a)	50.18	(a)	3505.07
	12/07/07*		(a)	50.03	(a)	3505.22
	05/30/08*		(a)	50.12	(a)	3505.13
	12/10/08*		(a)	50.58	(a)	3504.67
	05/01/09*		(a)	50.63	(a)	3504.62
	06/11/10*		(a)	52.13	(a)	3503.12
	11/10/11*		(a)	52.04	(a)	3503.21
	06/26/12*		(a)	52.34	(a)	3502.91
SVE-9	05/14/96	3555.36 (e)	(a)	54.13	(a)	3501.23
	08/06/97		(a)	50.06	(a)	3505.30
	02/11/99*		(a)	50.97	(a)	3504.39
	08/11/99*		(a)	54.39	(a)	3500.97
	02/13/00*		(a)	53.65	(a)	3501.71
	08/21/00*		(a)	54.22	(a)	3501.14
	02/17/01*		(a)	53.57	(a)	3501.79
	08/15/01		(a)	53.14	(a)	3502.22
	02/27/02*		(a)	53.01	(a)	3502.35
	07/31/02*		(a)	52.78	(a)	3502.58
	02/13/03*		(a)	52.88	(a)	3502.48
	08/04/03*		(a)	52.63	(a)	3502.73
	05/24/04*		(a)	52.81	(a)	3502.55
	11/09/04*		(a)	52.78	(a)	3502.58
	04/11/05*		(a)	53.53	(a)	3501.83
	12/01/05*		(a)	51.81	(a)	3503.55
	05/10/06*		(a)	51.10	(a)	3504.26
	12/14/06*		(a)	50.61	(a)	3504.75
	06/20/07*		(a)	50.31	(a)	3505.05
	12/07/07*		(a)	49.91	(a)	3505.45
	05/30/08*		(a)	50.00	(a)	3505.36
	12/10/08*		(a)	50.46	(a)	3504.90
	05/01/09*		(a)	50.48	(a)	3504.88
	06/11/10*		(a)	51.03	(a)	3504.33
	11/10/11*		(a)	50.97	(a)	3504.39
	06/26/12*		(a)	51.22	(a)	3504.14

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-10	06/04/99	3554.40 (e)	52.86	52.88	0.02	3501.54
	06/29/99		53.25	53.32	0.07	3501.14
	07/08/99		51.63	51.70	0.07	3502.76
	07/27/99		51.23	51.41	0.18	3503.13
	08/11/99*		53.12	53.32	0.20	3501.24
	08/26/99		51.63	51.77	0.14	3502.74
	09/28/99		56.65	56.79	0.14	3497.72
	10/07/99		54.98	55.23	0.25	3499.37
	10/26/99		54.68	54.77	0.09	3499.70
	11/11/99		55.79	55.85	0.06	3498.60
	11/30/99		55.03	55.07	0.04	3499.36
	12/14/99		54.52	54.53	0.01	3499.88
	12/30/99		53.91	53.94	0.03	3500.48
	01/13/00		53.56	53.59	0.03	3500.83
	01/25/00		53.50	53.52	0.02	3500.90
	02/03/00		53.61	53.63	0.02	3500.79
	02/13/00*		53.53	53.58	0.05	3500.86
	03/06/00		54.11	54.12	0.01	3500.29
	03/23/00		(a)	54.95	(a)	3499.45
	04/06/00		54.05	54.07	0.02	3500.35
	04/20/00		54.19	54.20	0.01	3500.21
	05/11/00		54.21	54.22	0.01	3500.19
	05/25/00		(a)	54.21	(a)	3500.19
	06/08/00		(a)	54.18	(a)	3500.22
	06/22/00		(a)	54.18	(a)	3500.22
	07/13/00		(a)	54.19	(a)	3500.21
	07/27/00		(a)	54.19	(a)	3500.21
	08/03/00		54.03	54.04	0.01	3500.37
	08/21/00*		(a)	54.02	(a)	3500.38
	09/14/00		(a)	53.60	(a)	3500.80
	09/28/00		(a)	53.58	(a)	3500.82
	10/12/00		(a)	53.55	(a)	3500.85
	11/03/00		(a)	53.35	(a)	3501.05
	11/16/00		(a)	53.29	(a)	3501.11
	12/06/00		(a)	53.25	sheen	3501.15
	01/25/01		(a)	53.11	(a)	3501.29
	02/17/01*		53.04	53.05	0.01	3501.36
	02/23/01		(a)	53.00	(a)	3501.40
	03/30/01		(a)	52.95	(a)	3501.45
	08/15/01		(a)	56.16	(a)	3498.24
	02/27/02*		(a)	52.70	(a)	3501.70
	07/31/02*		(a)	52.60	(a)	3501.80
	02/13/03*		(a)	52.47	sheen	3501.93
	08/04/03*		(a)	52.30	sheen	3502.10
	05/24/04*		(a)	52.27	(a)	3502.13
	11/09/04*		(a)	52.37	sheen	3502.03
	04/11/05*		(a)	52.06	(a)	3502.34
	12/01/05*		(a)	51.50	(a)	3502.90
	05/10/06*		(a)	50.89	sheen	3503.51
	12/14/06*		(a)	50.53	(a)	3503.87
	06/20/07*		(a)	50.10	sheen	3504.30
	12/07/07*		(a)	49.85	sheen	3504.55
	05/30/08*		(a)	49.82	(a)	3504.58
	12/10/08*		(a)	50.12	(a)	3504.28
	05/01/09*		(a)	50.23	(a)	3504.17
	06/11/10*		(a)	50.71	(a)	3503.69
	11/10/11*		(a)	50.58	(a)	3503.82
	06/26/12*		(a)	50.82	(a)	3503.58

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-11	06/04/99	3555.33 (e)	54.94	55.32	0.38	3500.31
	06/29/99		54.94	55.31	0.37	3500.32
	07/08/99		54.87	56.51	1.64	3500.13
	07/27/99		54.52	56.18	1.66	3500.48
	08/11/99*		54.32	55.91	1.59	3500.69
	08/13/99		54.66	55.80	1.14	3500.44
	09/02/99		54.30	54.39	0.09	3501.01
	09/14/99		55.30	56.14	0.84	3499.86
	10/05/99		54.80	54.85	0.05	3500.52
	11/02/99		54.58	54.59	0.01	3500.75
	11/16/99		(a)	54.21	(a)	3501.12
	12/02/99		(a)	54.20	(a)	3501.13
	12/30/99		(a)	53.86	(a)	3501.47
	01/13/00		(a)	53.99	(a)	3501.34
	01/25/00		(a)	54.64	(a)	3500.69
	02/03/00		(a)	54.32	(a)	3501.01
	02/13/00*		53.87	53.89	0.02	3501.46
	03/23/00		57.55	57.56	0.01	3497.78
	04/06/00		(a)	56.00	(a)	3499.33
	05/11/00		(a)	55.26	(a)	3500.07
	05/25/00		(a)	54.63	(a)	3500.70
	06/08/00		(a)	54.73	(a)	3500.60
	06/22/00		(a)	55.28	(a)	3500.05
	07/13/00		54.62	54.63	0.01	3500.71
	07/27/00		(a)	54.29	(a)	3501.04
	08/03/00		(a)	54.22	(a)	3501.11
	08/21/00*		(a)	53.77	(a)	3501.56
	09/14/00		(a)	53.92	(a)	3501.41
	09/28/00		(a)	53.92	(a)	3501.41
	10/12/00		(a)	53.95	(a)	3501.38
	11/03/00		53.75	53.76	0.01	3501.58
	11/16/00		53.76	53.77	0.01	3501.57
	12/06/00		53.83	53.89	0.06	3501.49
	01/25/01		53.64	53.71	0.07	3501.68
	02/17/01*		53.76	53.87	0.11	3501.55
	02/23/01		53.47	53.54	0.07	3501.85
	03/30/01		53.48	53.55	0.07	3501.84
	08/15/01		(a)	53.43	(a)	3501.90
	02/27/02*		53.35	53.43	0.08	3501.96
	07/31/02*		53.15	53.16	0.01	3502.18
	02/13/03*		(a)	53.03	sheen	3502.30
	08/04/03*		51.81	52.02	0.21	3503.48
	05/24/04*		55.85	56.33	0.48	3499.38
	11/09/04*		52.94	53.31	0.37	3502.32
	04/11/05*		52.54	52.55	0.01	3502.79
	12/01/05*		51.81	53.05	1.24	3503.27
	05/10/06*		51.19	52.55	1.36	3503.87
	12/14/06*		(a)	50.71	sheen	3504.62
	06/20/07*		50.36	52.04	1.68	3504.63
	12/07/07*		50.05	51.90	1.85	3504.91
	05/30/08*		50.09	52.35	2.26	3504.79
	12/10/08*		50.58	52.72	2.14	3504.32
	05/01/09*		(a)	51.08	(a)	3504.25
	08/22/09*		(a)	51.60	(a)	3503.73
	10/05/09*		51.23	51.23	sheen	3504.10
	06/11/10*		51.49	51.61	0.12	3503.82
	11/10/11*		51.54	51.55	0.01	3503.79
	06/26/12*		51.66	52.24	0.58	3503.55

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-12	06/04/99	3555.64 (e)	55.00	58.71	3.71	3499.90
	07/13/99		55.25	55.83	0.58	3500.27
	07/27/99		54.99	56.16	1.17	3500.42
	08/03/99		55.11	56.41	1.30	3500.27
	09/07/99		54.29	54.30	0.01	3501.35
	09/14/99		55.28	55.29	0.01	3500.36
	10/12/99		53.35	53.37	0.02	3502.29
	10/28/99		(a)	54.56	(a)	3501.08
	11/11/99		(a)	54.23	(a)	3501.41
	11/30/99		(a)	53.88	(a)	3501.76
	12/14/99		(a)	53.89	(a)	3501.75
	12/30/99		(a)	53.82	(a)	3501.82
	01/25/00		(a)	54.33	(a)	3501.31
	02/03/00		(a)	54.41	(a)	3501.23
	02/13/00*		(a)	54.17	sheen	3501.47
	04/20/00		(a)	56.38	(a)	3499.26
	06/15/00		(a)	55.25	(a)	3500.39
	07/13/00		(a)	54.50	(a)	3501.14
	07/27/00		(a)	53.97	(a)	3501.67
	08/03/00		(a)	53.19	(a)	3502.45
	08/21/00*		(a)	53.73	(a)	3501.91
	09/14/00		(a)	53.57	(a)	3502.07
	09/28/00		(a)	53.82	(a)	3501.82
	10/12/00		(a)	53.54	(a)	3502.10
	11/03/00		(a)	54.04	(a)	3501.60
	11/16/00		(a)	54.06	(a)	3501.58
	12/06/00		(a)	54.12	sheen	3501.52
	01/25/01		53.92	53.94	0.02	3501.72
	02/17/01*		54.06	54.10	0.04	3501.57
	02/23/01		(a)	52.28	(a)	3503.36
	03/30/01		53.79	53.88	0.09	3501.83
	08/15/01		(a)	53.73	(a)	3501.91
	02/27/02*		53.60	53.61	0.01	3502.04
	07/31/02*		53.44	53.59	0.15	3502.17
	02/13/03*		53.47	53.62	0.15	3502.14
	08/04/03*		53.23	53.57	0.34	3502.34
	05/24/04*		53.13	53.74	0.61	3502.39
	11/09/04*		53.33	53.87	0.54	3502.20
	04/11/05*		52.97	52.98	0.01	3502.67
	12/01/05*		52.20	52.90	0.70	3503.30
	05/10/06*		51.61	52.37	0.76	3503.88
	12/14/06*		51.22	52.12	0.90	3504.24
	06/20/07*		50.81	51.81	1.00	3504.63
	12/07/07*		50.52	51.57	1.05	3504.91
	05/30/08*		50.65	51.75	1.10	3504.77
	12/10/08*		51.11	52.34	1.23	3504.28
	05/01/09*		(a)	51.53	(a)	3504.11
	08/22/09*		51.58	51.60	0.02	3504.06
	10/05/09*		(a)	51.39	(a)	3504.25
	06/11/10*		52.04	52.08	0.04	3503.59
	11/10/11*		51.91	52.02	0.11	3503.71
	06/26/12*		52.25	52.40	0.15	3503.36

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-13	06/04/99	3554.11 (e)	53.73	54.83	1.10	3500.16
	06/24/99		53.65	54.02	0.37	3500.39
	07/15/99		53.97	54.02	0.05	3500.13
	07/27/99		53.28	53.30	0.02	3500.83
	08/11/99*		53.37	53.39	0.02	3500.74
	08/26/99		(a)	53.27	(a)	3500.84
	09/14/99		(a)	53.93	(a)	3500.18
	09/28/99		(a)	53.24	(a)	3500.87
	10/07/99		(a)	53.36	(a)	3500.75
	10/21/99		(a)	53.51	(a)	3500.60
	11/11/99		(a)	53.00	(a)	3501.11
	11/30/99		(a)	52.56	(a)	3501.55
	12/14/99		(a)	52.54	(a)	3501.57
	12/30/99		(a)	52.38	(a)	3501.73
	01/25/00		(a)	54.18	(a)	3499.93
	02/03/00		(a)	52.79	(a)	3501.32
	02/13/00*		(a)	52.60	(a)	3501.51
	03/06/00		(a)	53.45	(a)	3500.66
	03/23/00		(a)	56.07	(a)	3498.04
	04/06/00		(a)	54.76	(a)	3499.35
	05/11/00		(a)	53.54	(a)	3500.57
	05/25/00		(a)	52.68	(a)	3501.43
	06/08/00		(a)	53.16	(a)	3500.95
	06/22/00		(a)	54.22	(a)	3499.89
	07/13/00		(a)	52.91	(a)	3501.20
	07/27/00		(a)	52.67	(a)	3501.44
	08/03/00		(a)	52.48	(a)	3501.63
	08/21/00*		(a)	52.47	(a)	3501.64
	09/14/00		(a)	52.65	(a)	3501.46
	09/28/00		(a)	52.58	(a)	3501.53
	10/12/00		(a)	52.57	(a)	3501.54
	11/03/00		(a)	52.49	(a)	3501.62
	11/16/00		(a)	52.51	(a)	3501.60
	12/06/00		(a)	52.59	(a)	3501.52
	01/25/01		(a)	52.41	(a)	3501.70
	02/17/01*		(a)	52.55	(a)	3501.56
	02/23/01		53.72	53.74	0.02	3500.39
	03/30/01		(a)	52.26	(a)	3501.85
	08/15/01		(a)	52.16	(a)	3501.95
	02/27/02*		(a)	52.14	(a)	3501.97
	07/31/02*		(a)	51.93	(a)	3502.18
	02/13/03*		(a)	52.01	(a)	3502.10
	08/04/03*		(a)	51.81	(a)	3502.30
	05/24/04*		(a)	51.70	(a)	3502.41
	11/09/04*		(a)	50.90	(a)	3503.21
	04/11/05*		(a)	51.49	(a)	3502.62
	12/01/05*		(a)	50.86	(a)	3503.25
	05/10/06*		(a)	49.18	(a)	3504.93
	12/14/06*		(a)	48.76	(a)	3505.35
	06/20/07*		(a)	48.46	(a)	3505.65
	12/07/07*		(a)	48.21	(a)	3505.90
	05/30/08*		(a)	49.38	(a)	3504.73
	12/10/08*		(a)	49.86	(a)	3504.25
	05/01/09*		(a)	49.98	(a)	3504.13
	06/11/10*		(a)	49.11	(a)	3505.00
	11/10/11*		(a)	50.34	(a)	3503.77
	06/26/12*		(a)	49.65	(a)	3504.46

**Table 2. Summary of Groundwater Surface Elevations at SVE Wells
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
SVE-14	06/04/99	3554.83 (e)	(a)	54.43	(a)	3500.40
	06/24/99		(a)	52.01	(a)	3502.82
	07/15/99		(a)	52.76	(a)	3502.07
	07/27/99		(a)	52.03	(a)	3502.80
	08/11/99*		(a)	54.13	(a)	3500.70
	08/26/99		(a)	52.40	(a)	3502.43
	09/14/99		(a)	52.61	(a)	3502.22
	09/28/99		(a)	52.36	(a)	3502.47
	10/07/99		(a)	52.14	(a)	3502.69
	10/21/99		(a)	54.37	(a)	3500.46
	11/11/99		(a)	53.09	(a)	3501.74
	11/30/99		(a)	51.51	(a)	3503.32
	12/14/99		(a)	51.16	(a)	3503.67
	12/30/99		(a)	53.32	(a)	3501.51
	01/13/00		(a)	53.51	(a)	3501.32
	01/25/00		(a)	51.42	(a)	3503.41
	02/03/00		(a)	51.28	(a)	3503.55
	02/13/00*		(a)	53.36	(a)	3501.47
	02/17/01*		(a)	53.31	(a)	3501.52
	08/21/00*		(a)	53.37	(a)	3501.46
	02/17/01*		(a)	53.31	(a)	3501.52
	08/15/01		(a)	52.95	(a)	3501.88
	02/27/02*		(a)	52.88	sheen	3501.95
	07/31/02*		(a)	52.67	(a)	3502.16
	02/13/03*		(a)	52.75	sheen	3502.08
	08/04/03*		52.56	52.57	0.01	3502.27
	05/24/04*		(a)	52.51	(a)	3502.32
	11/09/04*		(a)	51.65	(a)	3503.18
	04/11/05*		(a)	49.37	(a)	3505.46
	12/01/05*		51.65	51.66	0.01	3503.18
	05/10/06*		(a)	50.02	(a)	3504.81
	12/14/06*		(a)	49.56	(a)	3505.27
	06/20/07*		(a)	49.08	(a)	3505.75
	12/07/07*		(a)	48.64	Sheen	3506.19
	05/30/08*		(a)	49.92	Sheen	3504.91
	12/10/08*		(a)	50.34	Sheen	3504.49
	05/01/09*		(a)	50.42	Sheen	3504.41
	06/11/10*		(a)	49.99	Sheen	3504.84
	11/10/11*		(a)	50.97	Sheen	3503.86
	06/26/12*		(a)	50.22	Sheen	3504.61

Notes:

(a) Not Applicable

(b) No elevation data available

(c) Survey by John West Engineering, Hobbs, NM dated 11/94

(d) Survey by John West Engineering, Hobbs, NM dated 02/22/96

(e) Survey by Cypress Engineering, Houston, TX dated 08/11/99

(f) SVE-3 plugged and abandoned on 12-01-04 by George Friend.

"*" Indicates depth measurements on this date were associated with a routine groundwater sampling event

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)			
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
MW-9	11/21/94	-	-	-	-	12	< 0.5	< 0.5	< 0.5
	11/21/95	-	7.03	19.4	2,890	4	3	< 2	11
	02/22/96	-	6.48	22.2	2,980	13	< 2	< 2	< 2
	05/14/96	-	-	-	-	14	< 2	< 2	< 2
	08/12/96	-	6.79	27.0	3,090	14	< 2	< 2	< 3
	11/12/96	-	6.97	16.6	-	9	< 2	< 2	< 2
	02/05/97	3.0	7.26	16.3	3,900	13	< 2	< 2	< 2
	08/05/97	1.8	6.97	20.7	3,580	3	< 2	< 2	< 2
	02/24/98	4.2	7.00	20.3	3,550	16.3	< 5	< 5	< 5
	08/05/98	2.2	6.93	22.6	3,910	1.9	< 1	< 1	< 1
	02/12/99	-	-	-	-	6	< 1	< 1	< 1
	08/11/99	3.1	6.9	21.0	3,230	< 2	< 2	< 2	< 2
	02/13/00	-	-	-	-	3.0	< 1	< 1	< 1
	08/21/00 (a)	-	-	-	-	1.5	< 0.5	0.5	0.9
	02/17/01	-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.10
	08/15/01	2.6	7.12	22.5	3,140	2.06	< 1	< 1	< 2
	02/27/02	3.6	6.94	21.9	4,130	6	< 1	< 1	< 1
	08/01/02	3.7	6.80	21.5	3,810	< 0.50	< 0.50	< 0.50	< 0.50
	02/13/03	2.8	6.98	22.7	4,310	0.86	< 0.50	< 0.50	< 0.50
	08/05/03	2.1	6.91	23.3	3,830	0.60	< 0.50	< 0.50	< 0.50
	05/24/04	2.7	7.07	22.9	4,090	< 0.50	< 0.50	< 0.50	< 0.50
	11/09/04*	3.3	6.83	20.6	4,423	< 0.50	< 0.50	< 0.50	< 0.50
	04/11/05	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50
	12/01/05	4.6	7.16	19.8	3,977	< 0.50	< 0.50	< 0.50	< 0.50
	05/10/06	6.1	6.98	21.0	4,104	< 1	< 1	< 1	< 3
	12/14/06	5.5	6.95	20.5	4,355	< 1	< 1	< 1	< 3
	06/21/07	5.8	7.18	20.9	4,132	< 1	< 1	< 1	< 2
	12/07/07	4.9	6.90	20.4	3,957	< 1	< 1	< 1	< 2
	05/30/08	4.1	7.38	21.7	4,002	< 1	< 1	< 1	< 2
	12/11/08	4.6	6.95	20.2	3,633	< 1	< 1	< 1	< 2
	04/27/09	5.6	6.48	20.9	4,491	< 1	< 1	< 1	< 2
	06/11/10	6.0	6.29	21.1	4,662	< 1	< 1	< 1	< 2
	11/10/11	4.0	6.79	20.4	4,112	< 1	< 1	< 1	< 2
	06/26/12	4.9	6.98	22.7	4,637	< 1	< 1	< 1	< 2

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)			
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
MW-10	11/18/94	-	-	-	-	9,000	16,000	620	8,500
	08/05/98	-	-	-	-	4,000	7,500	190	3,100
	02/12/99	-	-	-	-	4,300	7,700	340	3,300
	11/18/99	-	-	-	-	3,400	5,600	280	3,100
	02/13/00	-	-	-	-	4,800	9,200	710	6,200
	06/20/00	-	-	-	-	3,700	6,600	380	3,900
	08/15/01	-	-	-	-	4,590	454	429	4,680

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)				
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes	
NMWQCC Standard		none	6-9	none	none	10	750	750	620	
MW-11	11/21/94	(b)	-	-	-	-	-	-	-	
	11/21/95		-	-	-	< 2	< 2	< 2	< 2	
	02/22/96		-	7.34	21.9	1,920	< 2	< 2	< 2	
	05/14/96		-	-	-	-	< 2	< 2	< 2	
	08/12/96		-	7.11	25.7	2,050	< 2	< 2	< 3	
	11/11/96		6.0	7.15	19.9	-	< 2	< 2	< 2	
	02/05/97		7.0	7.56	14.8	2,300	< 2	< 2	< 2	
	08/05/97		5.3	7.19	21.2	2,280	< 2	< 2	< 2	
	02/24/98		6.5	7.35	18.8	2,100	< 5	< 5	< 5	
	08/05/98		7.2	7.15	20.4	2,250	< 1	< 1	< 1	
	02/12/99		-	-	-	-	< 1	< 1	< 1	
	08/11/99		8.8	7.42	20.8	1,800	< 2	< 2	< 2	
	02/13/00		6.6	7.83	19.6	2,050	< 1	< 1	< 1	
	08/21/00	(a)	6.7	7.41	21.6	1,720	< 0.5	< 0.5	< 0.5	< 1
	02/17/01		-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.10
	08/15/01		6.0	7.20	20.3	1,932	< 1	< 1	< 1	< 2
	02/27/02		6.3	7.38	21.6	2,020	< 1	< 1	< 1	< 1
	08/01/02		7.9	6.87	23.5	1,700	< 0.50	< 0.50	< 0.50	< 0.50
	02/13/03		6.1	7.41	22.3	1,960	< 0.50	< 0.50	< 0.50	< 0.50
	08/05/03		5.0	7.47	22.7	1,660	< 0.50	< 0.50	< 0.50	< 0.50
	05/24/04		5.1	7.46	21.9	1,780	< 0.50	< 0.50	< 0.50	< 0.50
	11/09/04*		5.8	7.14	20.2	1,775	< 0.50	< 0.50	< 0.50	< 0.50
	04/11/05		-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50
	12/01/05		5.8	7.46	19.5	1,456	< 0.50	< 0.50	< 0.50	< 0.50
	05/10/06		7.3	7.36	20.1	1,481	< 1	< 1	< 1	< 3
	12/14/06		7.3	7.28	20.0	1,374	< 1	< 1	< 1	< 3
	06/21/07		7.4	6.99	20.3	1,322	< 1	< 1	< 1	< 2
	12/07/07		6.7	7.26	20.0	1,216	< 1	< 1	< 1	< 2
	05/30/08		7.0	6.92	21.1	1,636	< 1	< 1	< 1	< 2
	12/11/08		6.2	7.24	19.4	1,648	< 1	< 1	< 1	< 2
	04/27/09		6.8	6.84	20.3	2,195	< 1	< 1	< 1	< 2
	06/11/10		7.6	6.28	20.9	2,572	< 1	< 1	< 1	< 2
	11/10/11		4.1	6.94	19.9	2,549	< 1	< 1	< 1	< 2
	06/26/12		5.6	7.00	21.3	2,809	< 1	< 1	< 1	< 2

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)				
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes	
NMWQCC Standard		none	6-9	none	none	10	750	750	620	
MW-12	11/17/94	-	-	-	-	< 0.5	1.9	< 0.5	3.1	
	11/21/95	-	6.97	19.2	3,260	< 2	< 2	< 2	< 2	
	02/22/96	-	6.71	22.6	3,400	< 2	< 2	< 2	< 2	
	05/14/96	-	-	-	-	< 2	< 2	< 2	< 2	
	08/12/96	-	6.70	26.8	3,430	< 2	< 2	< 2	< 3	
	11/12/96	6.0	7.06	19.3	-	< 2	< 2	< 2	< 2	
	02/05/97	7.0	7.23	15.8	3,900	< 2	< 2	< 2	< 2	
	08/05/97	4.9	6.85	21.8	3,880	< 2	< 2	< 2	< 2	
	02/24/98	6.0	7.06	20.1	3,570	< 5	< 5	< 5	< 5	
	08/05/98	5.6	6.96	22.1	3,830	< 1	< 1	< 1	< 1	
	02/12/99	-	-	-	-	< 1	< 1	< 1	< 1	
	08/11/99	6.7	7.13	20.7	3,770	< 2	< 2	< 2	< 2	
	02/13/00	5.4	7.10	20.1	3,780	< 1	< 1	< 1	< 1	
	08/21/00	(a)	6.7	7.06	21.1	3,350	< 0.5	0.5	0.8	1.1
	02/17/01	-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.10	
	08/15/01	4.5	7.23	20.7	3,690	< 1	< 1	< 1	< 2	
	02/27/02	4.6	7.01	22.4	4,030	< 1	< 1	< 1	< 1	
	08/01/02	4.3	6.84	21.4	3,580	< 0.50	< 0.50	< 0.50	< 0.50	
	02/13/03	4.3	7.04	22.8	3,930	< 0.50	< 0.50	< 0.50	< 0.50	
	08/05/03	4.1	7.05	23.4	3,380	< 0.50	< 0.50	< 0.50	< 0.50	
	05/24/04	4.1	7.09	22.1	3,540	< 0.50	< 0.50	< 0.50	< 0.50	
	11/09/04*	4.2	6.90	20.4	3,547	< 0.50	< 0.50	< 0.50	< 0.50	
	04/11/05	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
	12/01/05	3.5	7.09	19.7	3,000	< 0.50	< 0.50	< 0.50	< 0.50	
	05/10/06	4.8	6.75	20.5	3,128	< 1	< 1	< 1	< 3	
	12/14/06	4.2	7.06	20.0	2,999	< 1	< 1	< 1	< 3	
	06/21/07	4.4	7.11	20.4	3,049	< 1	< 1	< 1	< 2	
	12/07/07	4.0	6.80	20.0	3,021	< 1	< 1	< 1	< 2	
	05/30/08	6.3	6.59	21.8	3,106	< 1	< 1	< 1	< 2	
	12/11/08	3.5	6.87	19.5	2,645	< 1	< 1	< 1	< 2	
	04/27/09	4.7	6.44	20.5	3,244	< 1	< 1	< 1	< 2	
	06/11/10	4.3	6.15	20.9	3,330	< 1	< 1	< 1	< 2	
	11/10/11	3.0	6.58	19.8	3,251	< 1	< 1	< 1	< 2	
	06/26/12	3.3	6.80	21.0	3,597	< 1	< 1	< 1	< 2	

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)				
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes	
NMWQCC Standard		none	6-9	none	none	10	750	750	620	
MW-13	12/01/94	-	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	
	11/21/95	-	7.63	20.3	1,530	< 2	< 2	< 2	< 2	
	02/22/96	-	7.18	24.1	1,880	< 2	< 2	< 2	< 2	
	05/14/96	-	-	-	-	< 2	3	< 2	7	
	08/12/96	-	7.02	26.7	1,980	< 2	< 2	< 2	< 3	
	11/11/96	4.0	7.18	18.8	-	< 2	< 2	< 2	< 2	
	02/05/97	7	7.65	17.7	1,900	< 2	< 2	< 2	< 2	
	08/05/97	5.2	7.38	21.1	1,830	< 2	< 2	< 2	< 2	
	02/24/98	4.5	7.27	19.5	1,703	< 5	< 5	< 5	< 5	
	08/05/98	5.5	7.28	20.30	1,840	< 1	< 1	< 1	< 1	
	02/12/99	-	-	-	-	< 1	< 1	< 1	< 1	
	08/11/99	6.5	7.42	20.6	1,700	< 2	< 2	< 2	< 2	
	02/13/00	5.2	7.37	19.3	1,753	< 1	< 1	< 1	< 1	
	08/21/00	(a)	6.4	7.57	21.1	1,640	0.4	0.5	2.3	2.9
	02/17/01	-	-	-	-	< 0.500	< 0.500	< 0.500	< 0.10	
	08/15/01	4.2	7.42	20.6	1,646	< 1	< 1	< 1	< 2	
	02/27/02	4.1	7.33	21.7	1,804	< 1	< 1	< 1	< 1	
	08/01/02	4.5	6.90	20.7	1,600	< 0.50	< 0.50	< 0.50	< 0.50	
	02/13/03	4.2	7.37	22.3	1,803	< 0.50	< 0.50	< 0.50	< 0.50	
	08/05/03	4.6	7.42	22.5	1,620	< 0.50	< 0.50	< 0.50	< 0.50	
	05/24/04	4.4	7.43	22.0	1,800	< 0.50	< 0.50	< 0.50	< 0.50	
	11/09/04*	4.8	7.11	20.0	1,979	< 0.50	< 0.50	< 0.50	< 0.50	
	04/11/05	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	
	12/01/05	3.6	7.26	18.8	1,928	< 0.50	< 0.50	< 0.50	< 0.50	
	05/10/06	5.2	7.14	20.5	2,427	< 1	< 1	< 1	< 3	
	12/14/06	2.0	6.93	19.7	2,710	< 1	< 1	< 1	< 3	
	06/21/07	1.9	6.99	20.2	2,921	< 1	< 1	< 1	< 2	
	12/07/07	1.5	6.80	19.9	3,130	< 1	< 1	< 1	< 2	
	05/30/08	1.6	7.49	20.9	3,424	< 1	< 1	< 1	< 2	
	12/11/08	1.0	6.84	19.3	2,994	< 1	< 1	< 1	< 2	
	04/27/09	3.5	6.40	20.5	3,758	< 1	< 1	< 1	< 2	
	06/11/10	3.4	6.24	20.8	3,771	< 1	< 1	< 1	< 2	
	11/10/11	1.6	6.72	19.5	3,556	< 1	< 1	< 1	< 2	
	06/26/12	2.5	6.93	21.2	3,881	< 1	< 1	< 1	< 2	

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)				
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes	
NMWQCC Standard		none	6-9	none	none	10	750	750	620	
SVE-2	07/28/12	-	-	-	-	540	< 10	82	< 20	
SVE-6	06/26/12	2.6	7.17	21.8	3,006	< 1	< 1	< 1	< 2	
SVE-8	06/26/12	2.8	6.90	21.2	5,393	< 1	< 1	< 1	< 2	
SVE-9	06/26/12	2.1	7.11	23.0	3,706	< 1	< 1	< 1	< 2	
SVE-10	06/26/12	-	-	-	-	1,200	< 20	100	390	
SVE-13	02/13/00	-	-	-	-	1,300	1,800	270	1,900	
	06/20/00	-	-	-	-	1,600	2,300	170	2,100	
@ 1 well vol	08/21/00	(a)	-	-	-	110	140	91	390	
	08/21/00	(a)	-	-	-	240	370	110	1,000	
@ 1 well vol	02/18/01		-	-	-	968	789	93.2	831	
	02/18/01		-	-	-	1,170	1,110	124	1,240	
(Dup MW-17)	02/18/01		-	-	-	860	613	96.2	864	
	08/15/01		-	-	-	773	60.1	73.1	520.3	
	02/28/02		-	-	-	614	< 50	< 50	1,670	
(Dup MW-24)	02/28/02		-	-	-	686	604	619	1,670	
	08/01/02		-	-	-	720	< 10	74	220	
	02/13/03		-	-	-	760	< 10	120	300	
	08/05/03		-	-	-	1,100	< 10	93	250	
	05/24/04		-	-	-	620	21	73	230	
	11/09/04*		-	-	-	920	< 20	150	260	
	04/11/05		-	-	-	800	4.8	120	160	
	12/01/05		-	-	-	590	9.5	110	150	
	05/11/06		-	-	-	640	< 10	120	67	
	12/14/06		-	-	-	540	12	110	72	
	06/21/07		-	-	-	710	< 10	160	76	
	12/07/07		-	-	-	580	7.5	160	79	
	05/30/08		-	-	-	280	2.8	33	75	
	12/11/08		-	-	-	510	< 10	97	30	
	04/27/09		-	-	-	610	< 10	110	31	
	06/11/10		1.3	6.2	22.0	4770	630	< 10	100	36
	11/10/11		-	-	-	-	510	< 20	92	63
	06/26/12		-	-	-	-	930	< 20	140	170

**Table 3. Summary of Groundwater Analyses
TW WT-1 Compressor Station Dehy Area**

Well	Sampling Date	Field Measured Parameters				BTEX Concentration - (ug/L)			
		DO (mg/L)	pH (Units)	Temp. (C)	Conductivity (us/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
SVE-14	09/08/99	1.2	6.89	22.0	2,460	1,600	1,200	360	1,300
	11/18/99	-	-	-	-	1,400	560	400	970
	02/13/00	-	-	-	-	3,000	4,200	510	3,000
	06/20/00	-	-	-	-	1,600	2,300	330	2,400
@ 1 well vol	08/21/00 (a)	-	-	-	-	1,600	1,900	440	2,430
	08/21/00 (a)	5.6	7.25	22.8	2830	2,100	2,900	380	2,620
@ 1 well vol	02/18/01	-	-	-	-	819	1,130	297	1,900
	02/18/01	-	-	-	-	3,740	5,910	344	3,880
(Dup MW-18)	02/18/01	-	-	-	-	2,150	3,290	445	2,910
	08/15/01	-	-	-	-	369	1,520	632	6,440
	08/01/02	-	-	-	-	3,000	2,900	380	4,100
	05/24/04	-	-	-	-	260	340	260	1,800
	11/10/11	-	-	-	-	650	86	760	5,700
	06/26/12	-	-	-	-	950	< 20	360	2,400

NOTES:

(a) Trip Blank contained low concentrations of BTEX constituents.

(b) No sample collected due to insufficient volume of water in well.

(c) @ 1 well vol - Sample collected after purging 1 casing volume; all others collected after 3 casing volumes.

(d) Dup MW-17 - Blind duplicate sample collected and labeled as MW-17.

**Table 4. Summary of SVE System Vapor Concentration Monitoring
TW WT-1 Compressor Station Dehy Area**

Date	SVE Blower Unit				
	Total NMHC C(ug/L)	Flow Rate Q(scfm)	Potential Emissions M(lb/hr)	Estimated M(tons/mo)	Estimated M(gals/mo)
03/20/97	6,600	200	4.9	1.8	594
08/06/97	5,000	200	3.7	1.4	450
12/30/97	7,300	200	5.5	2.0	656
08/05/98	6,500	200	4.9	1.8	585
08/12/98	5,300	200	4.0	1.4	477
08/12/98	5,000	200	3.7	1.4	450
04/13/99	6,800	200	5.1	1.9	612
12/07/99	4,800	200	3.6	1.3	432
12/07/99	4,900	200	3.7	1.3	441
05/22/00	3,700	200	2.8	1.0	333
05/22/00	6,300	200	4.7	1.7	567
06/15/00	3,000	200	2.2	0.8	270
06/15/00	3,700	200	2.8	1.0	333
08/21/00	3,900	200	2.9	1.1	351
06/10/02	3,630	200	2.7	1.0	326
06/10/02	3,440	200	2.6	0.9	309
08/09/02	551	200	0.4	0.2	50
08/09/02	543	200	0.4	0.1	49
05/02/03	3,450	200	2.6	0.9	310
05/02/03	2,740	200	2.1	0.7	246
07/25/03	1,550	200	1.2	0.4	139
08/21/03	2,590	200	1.9	0.7	233
04/20/04	2,750	200	2.1	0.8	247
04/20/04	2,740	200	2.1	0.7	246
08/30/04	2,590	200	1.9	0.7	233
08/30/04	2,110	200	1.6	0.6	190
08/08/05	2,060	200	1.5	0.6	185
08/08/05	2,440	200	1.8	0.7	219
11/14/05	1,620	200	1.2	0.4	146
11/14/05	1,830	200	1.4	0.5	165
09/18/06	1,250	200	0.9	0.3	112
09/18/06	1,300	200	1.0	0.4	117
07/01/08	1,400	200	1.0	0.4	126
07/01/08	1,370	200	1.0	0.4	123
06/27/09	2,090	200	1.6	0.6	188
06/27/09	1,820	200	1.4	0.5	164
08/22/09	1,940	200	1.5	0.5	174
08/22/09	1,790	200	1.3	0.5	161
11/12/10	1,180	200	0.9	0.3	106
11/12/10	1,330	200	1.0	0.4	120
07/17/11	929	200	0.7	0.3	84
07/06/12	738	200	0.6	0.2	66
07/28/12	601	200	0.5	0.2	54
07/28/12	653	200	0.5	0.2	59
08/31/12	652	200	0.5	0.2	59
08/31/12	594	200	0.4	0.2	53
10/12/12	640	200	0.5	0.2	58
10/12/12	660	200	0.5	0.2	59

Notes:

- 1) Concentrations based on Hall Lab analysis of SVE system samples
- 2) A flow rate of 200 scfm was used in the calculation because this is value specified in the NOI application

**Table 5. Summary of Completion Details for Soil Borings Completed as Wells
TWP WT-1 Compressor Station Dehy Area**

Well	Source ^a	Date of Completion	Measuring Point Elevation (ft)	Northing (ft)	Easting (ft)	Total Depth of Boring (ft bgs)	Measured Depth of Well (ft from TOC)	Surface Completion Type	Casing Diameter (in.)	Screen Interval (ft bgs)	Top of Sand Pack (ft bgs)
MW-9	Eades Drlg/DBS	11/18/94	3557.31 (b)	-1209.40	-1254.20	60.5	na	Flush Mount	2	44-59	40.5
MW-10	Eades Drlg/DBS	11/17/94	3553.45 (b)	-986.60	-1342.10	62.5	63.57	Flush Mount	2	47.5-62.5	43.5
MW-11	Eades Drlg/DBS	11/21/94	3547.84 (b)	-864.70	-1562.50	65.0	59.78	Flush Mount	2	45-60	38.5
MW-12	Eades Drlg/DBS	11/16/94	3551.19 (b)	-818.40	-1192.90	60.0	60.11	Flush Mount	2	45-60	42.3
MW-13	Eades Drlg/DBS	11/16/94	3547.78 (b)	-708.90	-1359.20	58.0	57.52	Flush Mount	2	43-58	39.5
SVE-1	Eades Drlg/DBS	10/04/95	3551.22 (d)	-903.90	-1406.60	55.0	54.49	Flush Mount	2	35-55	32.9
SVE-2	Eades Drlg/DBS	10/05/95	3551.96 (d)	-901.70	-1325.80	53.0	52.75	Flush Mount	2	33-53	30.8
SVE-3	Eades Drlg/DBS	10/05/95	3552.75 (d)	-888.70	-1245.80	55.0	55.30	Flush Mount	2	35-55	32.6
SVE-3 P&A	CES	12/01/04	--	--	--	--	--	--	--	--	--
SVE-4	Eades Drlg/DBS	10/04/95	3553.03 (c)	-989.20	-1359.10	55.0	na	Flush Mount	2	30-55	27.9
SVE-4 P&A (e)	GPI/CES	05/25/99	--	--	--	--	--	--	--	--	--
SVE-5	Eades Drlg/DBS	10/04/95	3554.39 (d)	-986.40	-1275.10	52.7	52.11	Flush Mount	2	32.7-52.7	30.0
SVE-6	Eades Drlg/DBS	10/05/95	3553.74 (d)	-984.10	-1198.40	55.0	54.29	Flush Mount	2	35-55	32.8
SVE-7	Eades Drlg/DBS	10/04/95	3553.81 (d)	-1071.00	1402.50	58.0	57.68	Flush Mount	2	33-58	31.8
SVE-8	Eades Drlg/DBS	10/05/95	3555.25 (d)	-1072.80	-1314.70	56.5	56.76	Flush Mount	2	36.5-56.5	34.8
SVE-9	Eades Drlg/DBS	10/05/95	3555.36 (d)	-1073.10	-1249.20	56.2	55.90	Flush Mount	2	36.2-56.2	34.2
SVE-10 (e)	GPI/CES	05/25/99	3554.40 (d)	-989.58	-1359.42	66.6	64.46	Flush Mount	4	47.5-62.5	42.7
SVE-11	GPI/CES	05/14/99	3555.33 (d)	-986.39	-1269.94	63.4	63.93	Flush Mount	4	47.5-62.5	44.5
SVE-12	GPI/CES	05/14/99	3555.64 (d)	-985.74	-1307.78	63.5	63.55	Flush Mount	4	47.5-62.5	42.7
SVE-13	GPI/CES	05/10/99	3554.11 (d)	-954.94	-1314.42	64.8	63.21	Flush Mount	4	47.5-62.5	42.3
SVE-14	GPI/CES	05/14/99	3554.83 (d)	-960.46	-1248.58	63.4	63.97	Flush Mount	4	47.5-62.5	43.5

NOTES:

(a) Driller/Consultant

(b) Survey by John West Engineering on 11/94

(c) Survey by John West Engineering on 2/96

(d) Survey by Cypress Engineering on 8/99

(e) SVE-10 is an overdrill of SVE-4

na - Information not available

**Table 6. Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan
TW WT-1 Compressor Station Dehy Area**

Well ID	Analytical Requirements for Annual Event	Benzene (ppb) Latest Result	Comments
MW-9	BTEX	< 1	
MW-10	BTEX	na	contains PSH
MW-11	BTEX	< 1	clean downgradient well
MW-12	BTEX	< 1	clean downgradient well
MW-13	BTEX	< 1	clean downgradient well
SVE-2	BTEX	540	
SVE-10	BTEX	1200	
SVE-13	BTEX	930	
SVE-14	BTEX	950	contains PSH intermittently
Notes: 1) na - not available 2) BTEX - BTEX Compounds by EPA Method 8021B			

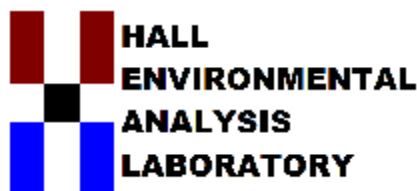
**Table 7. Summary for Product Removal Efforts
TW WT-1 Compressor Station Dehy Area**

Well	Date	Initial Measurements			Removal Actions	Post Measurements		
		Depth to PSH (ft)	Depth to Water or PSH/Water Interface (ft)	PSH Thickness (ft)	Removal Methods	Depth to PSH (ft)	Depth to Water or PSH/Water Interface (ft)	PSH Thickness (ft)
MW-10	12/10/08	49.74	50.89	1.15				
	03/09/09				Put in Sock Filter			
	03/16/09	51.16	51.31	0.15	Changed Sock Filter			
	03/22/09	--	50.21	--	Changed Sock Filter			
	03/29/09	--	49.95	--	Changed Sock Filter			
	04/08/09				Removed Sock Filter			
	06/11/10	50.59	50.65	0.06	Bailed		50.80	
	06/19/10	--	50.74	--				
	07/05/10	--	50.96	--				
	08/08/10	--	50.60	--				
	10/08/10	--	50.60	--				
	12/03/10	--	50.40	--				
	06/27/12	50.78	50.83	0.05	Used Absorbent		51.12	
	08/31/12	--	50.80	--				
	10/12/12	--	50.95	--				
SVE-5	06/11/10	50.08	50.12	0.04	Bailed		51.70	sheen
	06/19/10	50.05	50.05	sheen				
	07/05/10	50.63	50.70	0.07	Bailed		51.40	
	08/08/10	50.09	50.09	sheen				
	10/08/10	50.80	50.85	0.05	Bailed		51.56	
	12/03/10	--	50.56	--				
	06/27/12	50.61	50.67	0.06	Used Absorbent		50.97	
	08/31/12	--	50.85	--				
	10/12/12	--	50.90	--				
SVE-11	12/10/08	50.58	52.72	2.14				
	03/09/09				Put in Sock Filter			
	03/16/09	51.13	51.16	0.03	Changed Sock Filter			
	03/22/09	--	51.18	--	Changed Sock Filter			
	03/29/09	--	51.12	--	Changed Sock Filter			
	04/08/09				Removed Sock Filter			
	06/11/10	51.49	51.61	0.12	Bailed		51.88	sheen
	06/19/10	51.48	51.48	sheen				
	07/05/10	51.78	51.82	0.04	Bailed		51.88	
	08/08/10	--	51.60	--				
	10/08/10	--	51.73	--				
	12/03/10	--	51.41	--				
	06/27/12	51.66	52.24	0.58	Bailed / Absorbent	51.97	51.97	sheen
	08/31/12	--	52.00	--				
	10/12/12	--	52.07	--				
SVE-12	12/10/08	51.11	52.34	1.23				
	03/09/09				Put in Sock Filter			
	03/16/09	--	51.50	--	Changed Sock Filter			
	03/22/09	--	51.55	--	Changed Sock Filter			
	03/29/09	--	51.41	--	Changed Sock Filter			
	04/08/09				Removed Sock Filter			
	06/11/10	52.04	52.08	0.04	Bailed		52.20	sheen
	06/19/10	52.18	52.18	sheen				
	07/05/10	52.35	52.37	0.02	Bailed		52.35	
	08/08/10	50.09	50.09	sheen				
	10/08/10	51.95	52.00	0.05	Bailed		52.05	sheen
	12/03/10	51.70	51.75	0.05	Bailed		51.92	
	06/27/12	52.25	52.40	0.15	Used Absorbent		52.39	
	08/31/12	--	52.14	--				
	10/12/12	--	52.37	--				

APPENDICES

APPENDIX A

Laboratory Reports for Soil Vapor Samples



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 19, 2012

Sandra Sharp

Cypress Engineering

7171 Highway 6 North

Suite 102

Houston, TX 770952422

TEL: (281) 797-3421

FAX (281) 859-1881

RE: TWP WT-1 Station

OrderNo.: 1207417

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/11/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207417

Date Reported: 7/19/2012

CLIENT: Cypress Engineering

Client Sample ID: WT-1 Station SVE Effluent

Project: TWP WT-1 Station

Collection Date: 7/6/2012 1:20:00 PM

Lab ID: 1207417-001

Matrix: AIR

Received Date: 7/11/2012 11:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	738	25.0		µg/L	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C05-C6	5.30	0		%	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C06-C7	16.9	0		%	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C07-C8	30.7	0		%	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C08-C9	26.5	0		%	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C09-C10	14.6	0		%	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C10-C11	4.40	0		%	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C11-C12	1.20	0		%	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C12-C14	0.400	0		%	5	7/17/2012 1:28:03 PM
% GRO Hydrocarbons: C14+	ND	0		%	5	7/17/2012 1:28:03 PM
Surr: BFB	160	43.1-185		%REC	5	7/17/2012 1:28:03 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207417

Date Reported: 7/19/2012

CLIENT: Cypress Engineering

Client Sample ID: WT-1 Station SVE Effluent Dupl

Project: TWP WT-1 Station

Collection Date: 7/6/2012 1:20:00 PM

Lab ID: 1207417-002

Matrix: AIR

Received Date: 7/11/2012 11:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	66.0	25.0		µg/L	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C05-C6	4.00	0		%	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C06-C7	13.3	0		%	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C07-C8	31.2	0		%	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C08-C9	23.3	0		%	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C09-C10	20.7	0		%	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C10-C11	4.60	0		%	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C11-C12	1.60	0		%	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C12-C14	0.900	0		%	5	7/17/2012 1:55:23 PM
% GRO Hydrocarbons: C14+	0.400	0		%	5	7/17/2012 1:55:23 PM
Surr: BFB	96.8	43.1-185		%REC	5	7/17/2012 1:55:23 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207417

19-Jul-12

Client: Cypress Engineering

Project: TWP WT-1 Station

Sample ID	1207255-001ADUP	SampType:	DUP	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R4044	RunNo:	4044					
Prep Date:		Analysis Date:	7/13/2012	SeqNo:	115492	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		2000		97.1	43.1	185	0	0	

Sample ID	1207419-001ADUP	SampType:	DUP	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R4077	RunNo:	4077					
Prep Date:		Analysis Date:	7/16/2012	SeqNo:	116768	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		2000		93.3	43.1	185	0	0	

Sample ID	1207417-002ADUP	SampType:	DUP	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	WT-1 Station SVE E	Batch ID:	R4106	RunNo:	4106					
Prep Date:		Analysis Date:	7/17/2012	SeqNo:	117684	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	62	25						5.61	24.2	
Surr: BFB	8300		10000		83.0	43.1	185	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: CYP

Work Order Number: 1207417

Received by/date:

Logged By: Ashley Gallegos

7/11/2012 11:45:00 AM

Completed By: Ashley Gallegos

7/11/2012 3:07:33 PM

Reviewed By:

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ (<2 or >12 unless noted)
15. Is it clear what analyses were requested? Yes ☒ No ☐ Adjusted? ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐

eMail ☐

Phone ☐

Fax ☐

In Person ☐

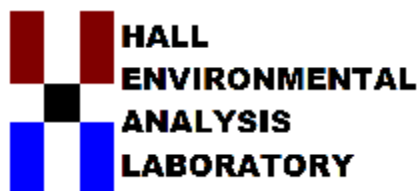
Regarding:

Client Instructions:

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1		Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 06, 2012

Sandra Sharp
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422
TEL: (281) 797-3421
FAX (281) 859-1881

RE: TWP WT-1 Station De-Hy Area

OrderNo.: 1207D34

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/31/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207D34

Date Reported: 8/6/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE Exhaust

Project: TWP WT-1 Station De-Hy Area

Collection Date: 7/28/2012 2:00:00 PM

Lab ID: 1207D34-001

Matrix: AIR

Received Date: 7/31/2012 12:58:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	601	25.0		µg/L	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C05-C6	2.90	0		%	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C06-C7	12.7	0		%	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C07-C8	32.3	0		%	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C08-C9	31.8	0		%	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C09-C10	13.1	0		%	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C10-C11	4.30	0		%	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C11-C12	2.30	0		%	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C12-C14	0.600	0		%	5	8/1/2012 3:27:05 PM
% GRO Hydrocarbons: C14+	ND	0		%	5	8/1/2012 3:27:05 PM
Surr: BFB	180	43.1-185		%REC	5	8/1/2012 3:27:05 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207D34

Date Reported: 8/6/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE Exhaust Duplicate

Project: TWP WT-1 Station De-Hy Area

Collection Date: 7/28/2012 2:00:00 PM

Lab ID: 1207D34-002

Matrix: AIR

Received Date: 7/31/2012 12:58:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	653	25.0		µg/L	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C05-C6	2.80	0		%	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C06-C7	12.2	0		%	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C07-C8	30.2	0		%	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C08-C9	32.2	0		%	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C09-C10	12.4	0		%	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C10-C11	7.50	0		%	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C11-C12	2.10	0		%	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C12-C14	0.600	0		%	5	8/1/2012 3:54:48 PM
% GRO Hydrocarbons: C14+	ND	0		%	5	8/1/2012 3:54:48 PM
Surr: BFB	189	43.1-185	S	%REC	5	8/1/2012 3:54:48 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Sample Log-In Check List

Client Name: CYP Work Order Number: 1207D34

Received by/date: AG 07/31/12

Logged By: Anne Thorne 7/31/2012 12:58:00 PM *Anne Thorne*

Completed By: Anne Thorne 7/31/2012 *Anne Thorne*

Reviewed By: *[Signature]* 07/31/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☐ No ☐ NA ☒
5. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☐ NA ☒
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

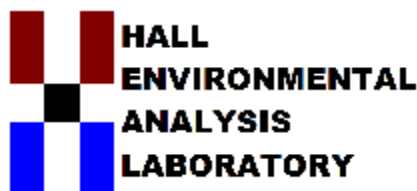
Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 10, 2012

Sandra Sharp
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422
TEL: (281) 797-3421
FAX

RE: TWP WT-1 Station De-Hy Area

OrderNo.: 1209073

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/5/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1209073

Date Reported: 9/10/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE Exhaust Effluent

Project: TWP WT-1 Station De-Hy Area

Collection Date: 8/31/2012 1:00:00 PM

Lab ID: 1209073-001

Matrix: AIR

Received Date: 9/5/2012 10:29:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	652	50.0		µg/L	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C05-C6	2.00	0		%	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C06-C7	9.10	0		%	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C07-C8	21.6	0		%	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C08-C9	22.3	0		%	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C09-C10	26.9	0		%	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C10-C11	13.7	0		%	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C11-C12	2.70	0		%	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C12-C14	1.30	0		%	10	9/5/2012 2:33:38 PM
% GRO Hydrocarbons: C14+	0.400	0		%	10	9/5/2012 2:33:38 PM
Surr: BFB	137	43.1-185		%REC	10	9/5/2012 2:33:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1209073

Date Reported: 9/10/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE Exhaust Effluent Duplicate

Project: TWP WT-1 Station De-Hy Area

Collection Date: 8/31/2012 1:00:00 PM

Lab ID: 1209073-002

Matrix: AIR

Received Date: 9/5/2012 10:29:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	594	50.0		µg/L	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C05-C6	2.20	0		%	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C06-C7	10.2	0		%	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C07-C8	33.4	0		%	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C08-C9	24.3	0		%	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C09-C10	18.6	0		%	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C10-C11	7.40	0		%	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C11-C12	2.40	0		%	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C12-C14	1.10	0		%	10	9/5/2012 3:00:45 PM
% GRO Hydrocarbons: C14+	0.400	0		%	10	9/5/2012 3:00:45 PM
Surr: BFB	135	43.1-185		%REC	10	9/5/2012 3:00:45 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209073

10-Sep-12

Client: Cypress Engineering
Project: TWP WT-1 Station De-Hy Area

Sample ID	5ML RB		SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	PBW		Batch ID: R5332		RunNo: 5332					
Prep Date:			Analysis Date: 9/5/2012		SeqNo: 151916		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		97.2	69.8	119			

Sample ID	2.5UG GRO LCS		SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	LCSW		Batch ID: R5332		RunNo: 5332					
Prep Date:			Analysis Date: 9/5/2012		SeqNo: 151917		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	96.0	75.9	119			
Surr: BFB	17		20.00		86.4	69.8	119			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209073

10-Sep-12

Client: Cypress Engineering
Project: TWP WT-1 Station De-Hy Area

Sample ID	5ML RB		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBW		Batch ID: R5332		RunNo: 5332					
Prep Date:			Analysis Date: 9/5/2012		SeqNo: 151932		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	22		20.00		110	55	140			

Sample ID	100NG BTEX LCS		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSW		Batch ID: R5332		RunNo: 5332					
Prep Date:			Analysis Date: 9/5/2012		SeqNo: 151933		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	23		20.00		114	55	140			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: CYP Work Order Number: 1209073

Received by/date: _____

Logged By: Anne Thorne 9/5/2012 10:29:00 AM *Anne Thorne*

Completed By: Anne Thorne 9/5/2012 *Anne Thorne*

Reviewed By: *[Signature]* 09/05/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☐ NA ☒
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

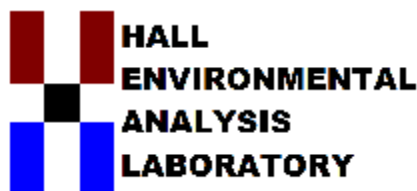
17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

Per Com B Effluent Dup Collection date is 09/13/12

19. Cooler Information



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 29, 2012

Sandra Sharp
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422
TEL: (281) 797-3421
FAX

RE: TWP WT-1 Station Dc-Hy Area

OrderNo.: 1210762

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/16/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210762

Date Reported: 10/29/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE Exhaust Effluent

Project: TWP WT-1 Station Dc-Hy Area

Collection Date: 10/12/2012 8:00:00 AM

Lab ID: 1210762-001

Matrix: AIR

Received Date: 10/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	640	5.0		µg/L	1	10/23/2012 11:30:50 AM
Surr: BFB	677	43.1-185	S	%REC	1	10/23/2012 11:30:50 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210762

Date Reported: 10/29/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE Exhaust Effluent Duplicate

Project: TWP WT-1 Station Dc-Hy Area

Collection Date: 10/12/2012 8:00:00 AM

Lab ID: 1210762-002

Matrix: AIR

Received Date: 10/16/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	660	5.0		µg/L	1	10/23/2012 12:53:59 PM
Surr: BFB	687	43.1-185	S	%REC	1	10/23/2012 12:53:59 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210762

29-Oct-12

Client: Cypress Engineering

Project: TWP WT-1 Station Dc-Hy Area

Sample ID	1210762-001ADUP		SampType: DUP		TestCode: EPA Method 8015B: Gasoline Range					
Client ID:	SVE Exhaust Efflu		Batch ID: R6438		RunNo: 6438					
Prep Date:			Analysis Date: 10/23/2012		SeqNo: 185181		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	650	5.0						0.684	21	
Surr: BFB	13000		2000		669	43.1	185	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

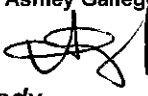
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

Sample Log-In Check List

Client Name: CYP Work Order Number: 1210762

Received by/date:  10/16/12
Logged By: Ashley Gallegos 10/16/2012 10:00:00 AM

Completed By: Ashley Gallegos 10/16/2012 11:11:53 AM

Reviewed By:   10/16/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:
 (<2 or >12 unless noted)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1		Good	Yes			

www.hallenvironmental.com

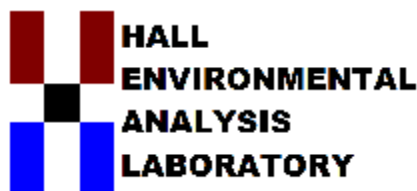
Tel. 505-345-3975 Fax 505-345-4107

[illegible]

Remarks: Any Questions Please Call
Sandy Sharp @ 281.797.3424

APPENDIX B

Laboratory Reports for Groundwater Samples



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 12, 2012

George Robinson
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422
TEL: (281) 797-3420
FAX (281) 859-1881

RE: Transwestern Pipeline Co WT-1 DEHY

OrderNo.: 1206C63

Dear George Robinson:

Hall Environmental Analysis Laboratory received 12 sample(s) on 6/29/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: MW-11

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 5:30:00 PM

Lab ID: 1206C63-001

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 4:15:06 AM
Toluene	ND	1.0		µg/L	1	7/4/2012 4:15:06 AM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 4:15:06 AM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 4:15:06 AM
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%REC	1	7/4/2012 4:15:06 AM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	1	7/4/2012 4:15:06 AM
Surr: Dibromofluoromethane	105	69.8-130		%REC	1	7/4/2012 4:15:06 AM
Surr: Toluene-d8	93.5	70-130		%REC	1	7/4/2012 4:15:06 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: MW-13

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 5:25:00 PM

Lab ID: 1206C63-002

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 4:43:15 AM
Toluene	ND	1.0		µg/L	1	7/4/2012 4:43:15 AM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 4:43:15 AM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 4:43:15 AM
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%REC	1	7/4/2012 4:43:15 AM
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	7/4/2012 4:43:15 AM
Surr: Dibromofluoromethane	103	69.8-130		%REC	1	7/4/2012 4:43:15 AM
Surr: Toluene-d8	93.7	70-130		%REC	1	7/4/2012 4:43:15 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: MW-12

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 4:45:00 PM

Lab ID: 1206C63-003

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 5:11:36 AM
Toluene	ND	1.0		µg/L	1	7/4/2012 5:11:36 AM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 5:11:36 AM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 5:11:36 AM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%REC	1	7/4/2012 5:11:36 AM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	1	7/4/2012 5:11:36 AM
Surr: Dibromofluoromethane	103	69.8-130		%REC	1	7/4/2012 5:11:36 AM
Surr: Toluene-d8	96.6	70-130		%REC	1	7/4/2012 5:11:36 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: MW-9

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 4:10:00 PM

Lab ID: 1206C63-004

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 5:39:56 AM
Toluene	ND	1.0		µg/L	1	7/4/2012 5:39:56 AM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 5:39:56 AM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 5:39:56 AM
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%REC	1	7/4/2012 5:39:56 AM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	1	7/4/2012 5:39:56 AM
Surr: Dibromofluoromethane	96.9	69.8-130		%REC	1	7/4/2012 5:39:56 AM
Surr: Toluene-d8	96.5	70-130		%REC	1	7/4/2012 5:39:56 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE-6

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 6:50:00 PM

Lab ID: 1206C63-005

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 6:08:08 AM
Toluene	ND	1.0		µg/L	1	7/4/2012 6:08:08 AM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 6:08:08 AM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 6:08:08 AM
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%REC	1	7/4/2012 6:08:08 AM
Surr: 4-Bromofluorobenzene	112	70-130		%REC	1	7/4/2012 6:08:08 AM
Surr: Dibromofluoromethane	103	69.8-130		%REC	1	7/4/2012 6:08:08 AM
Surr: Toluene-d8	95.9	70-130		%REC	1	7/4/2012 6:08:08 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE-9

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 7:05:00 PM

Lab ID: 1206C63-006

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 6:36:19 AM
Toluene	ND	1.0		µg/L	1	7/4/2012 6:36:19 AM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 6:36:19 AM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 6:36:19 AM
Surr: 1,2-Dichloroethane-d4	95.8	70-130		%REC	1	7/4/2012 6:36:19 AM
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	7/4/2012 6:36:19 AM
Surr: Dibromofluoromethane	103	69.8-130		%REC	1	7/4/2012 6:36:19 AM
Surr: Toluene-d8	93.1	70-130		%REC	1	7/4/2012 6:36:19 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE-8

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 6:25:00 PM

Lab ID: 1206C63-007

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 7:04:30 AM
Toluene	ND	1.0		µg/L	1	7/4/2012 7:04:30 AM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 7:04:30 AM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 7:04:30 AM
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%REC	1	7/4/2012 7:04:30 AM
Surr: 4-Bromofluorobenzene	118	70-130		%REC	1	7/4/2012 7:04:30 AM
Surr: Dibromofluoromethane	104	69.8-130		%REC	1	7/4/2012 7:04:30 AM
Surr: Toluene-d8	92.1	70-130		%REC	1	7/4/2012 7:04:30 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE-61

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 1:10:00 PM

Lab ID: 1206C63-008

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 9:53:42 AM
Toluene	ND	1.0		µg/L	1	7/4/2012 9:53:42 AM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 9:53:42 AM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 9:53:42 AM
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%REC	1	7/4/2012 9:53:42 AM
Surr: 4-Bromofluorobenzene	120	70-130		%REC	1	7/4/2012 9:53:42 AM
Surr: Dibromofluoromethane	102	69.8-130		%REC	1	7/4/2012 9:53:42 AM
Surr: Toluene-d8	95.4	70-130		%REC	1	7/4/2012 9:53:42 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE-10

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 5:10:00 PM

Lab ID: 1206C63-009

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	1200	20		µg/L	20	7/6/2012 1:19:36 PM
Toluene	ND	20		µg/L	20	7/6/2012 1:19:36 PM
Ethylbenzene	100	20		µg/L	20	7/6/2012 1:19:36 PM
Xylenes, Total	390	40		µg/L	20	7/6/2012 1:19:36 PM
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%REC	20	7/6/2012 1:19:36 PM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	20	7/6/2012 1:19:36 PM
Surr: Dibromofluoromethane	104	69.8-130		%REC	20	7/6/2012 1:19:36 PM
Surr: Toluene-d8	94.3	70-130		%REC	20	7/6/2012 1:19:36 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE-13

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 3:25:00 PM

Lab ID: 1206C63-010

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	930	20		µg/L	20	7/6/2012 1:47:56 PM
Toluene	ND	20		µg/L	20	7/6/2012 1:47:56 PM
Ethylbenzene	140	20		µg/L	20	7/6/2012 1:47:56 PM
Xylenes, Total	170	40		µg/L	20	7/6/2012 1:47:56 PM
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%REC	20	7/6/2012 1:47:56 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	20	7/6/2012 1:47:56 PM
Surr: Dibromofluoromethane	103	69.8-130		%REC	20	7/6/2012 1:47:56 PM
Surr: Toluene-d8	94.3	70-130		%REC	20	7/6/2012 1:47:56 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE-14

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date: 6/27/2012 4:05:00 PM

Lab ID: 1206C63-011

Matrix: AQUEOUS

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	950	20		µg/L	20	7/6/2012 2:16:22 PM
Toluene	ND	20		µg/L	20	7/6/2012 2:16:22 PM
Ethylbenzene	360	20		µg/L	20	7/6/2012 2:16:22 PM
Xylenes, Total	2400	40		µg/L	20	7/6/2012 2:16:22 PM
Surr: 1,2-Dichloroethane-d4	95.6	70-130		%REC	20	7/6/2012 2:16:22 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%REC	20	7/6/2012 2:16:22 PM
Surr: Dibromofluoromethane	104	69.8-130		%REC	20	7/6/2012 2:16:22 PM
Surr: Toluene-d8	93.7	70-130		%REC	20	7/6/2012 2:16:22 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206C63

Date Reported: 7/12/2012

CLIENT: Cypress Engineering

Client Sample ID: TRIP BLANK

Project: Transwestern Pipeline Co WT-1 DEHY

Collection Date:

Lab ID: 1206C63-012

Matrix: TRIP BLANK

Received Date: 6/29/2012 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	7/4/2012 12:14:52 PM
Toluene	ND	1.0		µg/L	1	7/4/2012 12:14:52 PM
Ethylbenzene	ND	1.0		µg/L	1	7/4/2012 12:14:52 PM
Xylenes, Total	ND	2.0		µg/L	1	7/4/2012 12:14:52 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%REC	1	7/4/2012 12:14:52 PM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	1	7/4/2012 12:14:52 PM
Surr: Dibromofluoromethane	99.2	69.8-130		%REC	1	7/4/2012 12:14:52 PM
Surr: Toluene-d8	96.0	70-130		%REC	1	7/4/2012 12:14:52 PM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C63

12-Jul-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co WT-1 DEHY

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	R3963	RunNo:	3963					
Prep Date:		Analysis Date:	7/6/2012	SeqNo:	113355	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	10		10.00		101	69.8	130			
Surr: Toluene-d8	9.3		10.00		93.5	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	R3963	RunNo:	3963					
Prep Date:		Analysis Date:	7/6/2012	SeqNo:	113356	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.8	84.1	126			
Toluene	18	1.0	20.00	0	91.8	80	120			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.0	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	11		10.00		106	69.8	130			
Surr: Toluene-d8	9.1		10.00		90.9	70	130			

Sample ID	1207170-001ams	SampType:	MS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R3963	RunNo:	3963					
Prep Date:		Analysis Date:	7/6/2012	SeqNo:	113357	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	16	1.0	20.00	50.39	-170	71.1	135			S
Toluene	14	1.0	20.00	8.883	26.5	74	121			S
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	10		10.00		100	69.8	130			
Surr: Toluene-d8	9.4		10.00		93.9	70	130			

Sample ID	1207170-001amsd	SampType:	MSD	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R3963	RunNo:	3963					
Prep Date:		Analysis Date:	7/6/2012	SeqNo:	113358	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	16	1.0	20.00	50.39	-172	71.1	135	2.60	21.9	S
Toluene	13	1.0	20.00	8.883	22.6	74	121	5.69	18.5	S
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C63

12-Jul-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co WT-1 DEHY

Sample ID	1207170-001amsd		SampType: MSD		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC		Batch ID: R3963		RunNo: 3963					
Prep Date:			Analysis Date: 7/6/2012		SeqNo: 113358		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.9		10.00		98.8	69.8	130	0	0	
Surr: Toluene-d8	9.5		10.00		95.1	70	130	0	0	

Sample ID	5ml rb	SampType: MBLK		TestCode: EPA Method 8260: Volatiles Short List						
Client ID:	PBW	Batch ID: R3867		RunNo: 3867						
Prep Date:	Analysis Date: 7/3/2012		SeqNo: 113372		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.1	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	10		10.00		104	69.8	130			
Surr: Toluene-d8	9.4		10.00		94.3	70	130			

Sample ID	100ng lcs		SampType: LCS		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	LCSW		Batch ID: R3867		RunNo: 3867					
Prep Date:			Analysis Date: 7/3/2012		SeqNo: 113373		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.9	84.1	126			
Toluene	19	1.0	20.00	0	93.4	80	120			
Surr: 1,2-Dichloroethane-d4	10		10.00		99.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		106	69.8	130			
Surr: Toluene-d8	9.6		10.00		96.0	70	130			

Sample ID	1206c63-007ams		SampType: MS		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	SVE-8		Batch ID: R3867		RunNo: 3867					
Prep Date:			Analysis Date: 7/4/2012		SeqNo: 113374		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.0	71.1	135			
Toluene	19	1.0	20.00	0	95.2	74	121			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130			
Surr: Dibromofluoromethane	10		10.00		102	69.8	130			
Surr: Toluene-d8	9.7		10.00		96.7	70	130			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206C63

12-Jul-12

Client: Cypress Engineering

Project: Transwestern Pipeline Co WT-1 DEHY

Sample ID	1206c63-007amsd		SampType: MSD		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	SVE-8		Batch ID: R3867		RunNo: 3867					
Prep Date:			Analysis Date: 7/4/2012		SeqNo: 113375		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.0	71.1	135	2.00	21.9	
Toluene	18	1.0	20.00	0	89.9	74	121	5.73	18.5	
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		108	69.8	130	0	0	
Surr: Toluene-d8	9.1		10.00		91.3	70	130	0	0	

Sample ID	b12	SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID: R3867			RunNo: 3867					
Prep Date:		Analysis Date: 7/4/2012			SeqNo: 113383		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		115	70	130			
Surr: Dibromofluoromethane	10		10.00		101	69.8	130			
Surr: Toluene-d8	9.4		10.00		94.2	70	130			

Sample ID	100ng lcs2		SampType: LCS		TestCode: EPA Method 8260: Volatiles Short List					
Client ID:	LCSW		Batch ID: R3867		RunNo: 3867					
Prep Date:			Analysis Date: 7/3/2012		SeqNo: 113384		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.4	84.1	126			
Toluene	19	1.0	20.00	0	94.6	80	120			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	11		10.00		106	69.8	130			
Surr: Toluene-d8	9.3		10.00		93.1	70	130			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: CYP Work Order Number: 1206C63

Received by/date: *LM 06/29/12*

Logged By: Ashley Gallegos 6/29/2012 12:00:00 PM *Ag*

Completed By: Ashley Gallegos 6/29/2012 2:36:35 PM *Ag*

Reviewed By: *mg 06/29/12*

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ (<2 or >12 unless noted)
15. Is it clear what analyses were requested? Yes ☒ No ☐ Adjusted?
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Chain-of-Custody Record

Client: Cypress Engineering
771 Hwy 6 North Ste 102
Mailing Address: Albuquerque, NM 87109

Phone #: 281 797 3420
email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name:
TRANSWESTERN PIPELINE CO
WT-1 DEHY
Project #:
TWP WT-1 DEHY

Project Manager:
George Robinson
George Robinson
Sampler: George Robinson
On Ice ☒ Yes ☐ No
Sample Temperature: 1, 2

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No
12/7/12	1730	Water	MW-1	3/40ml	HCL	120100003
	1725		MW-13			-001
	1645		MW-12			-002
	1610		MW-9			-003
	1850		SVE-0			-004
	1905		SVE-9			-005
	1825		SVE-8			-006
	1310		SVE-61			-007
	1710		SVE-10			-008
	1525		SVE-13			-009
	1605		SVE-14			-010
			TWP Blank	2/40ml		-011
						-012
Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
12/12	1200	<u>George Robinson</u>	<u>George Robinson</u>	12/12	1200	
Date:	Time:	Relinquished by:	Received by:	Date	Time	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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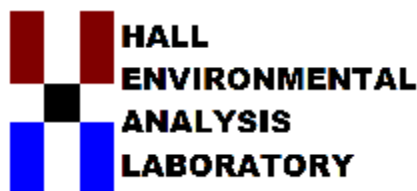
4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)
☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

Air Bubbles (Y or N)



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 06, 2012

Sandra Sharp
Cypress Engineering
7171 Highway 6 North
Suite 102
Houston, TX 770952422
TEL: (281) 797-3421
FAX

RE: TWP WT-1 Station

OrderNo.: 1207D28

Dear Sandra Sharp:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/31/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207D28

Date Reported: 8/6/2012

CLIENT: Cypress Engineering

Client Sample ID: SVE-2

Project: TWP WT-1 Station

Collection Date: 7/28/2012 2:30:00 PM

Lab ID: 1207D28-001

Matrix: AQUEOUS

Received Date: 7/31/2012 12:58:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	540	10		µg/L	10	8/4/2012 9:42:11 AM
Toluene	ND	10		µg/L	10	8/4/2012 9:42:11 AM
Ethylbenzene	82	10		µg/L	10	8/4/2012 9:42:11 AM
Xylenes, Total	ND	20		µg/L	10	8/4/2012 9:42:11 AM
m,p-Xylene	ND	10		µg/L	10	8/4/2012 9:42:11 AM
o-Xylene	ND	10		µg/L	10	8/4/2012 9:42:11 AM
Surr: 4-Bromofluorobenzene	94.2	55-140		%REC	10	8/4/2012 9:42:11 AM

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1207D28

Date Reported: 8/6/2012

CLIENT: Cypress Engineering

Client Sample ID: Trip Blank

Project: TWP WT-1 Station

Collection Date:

Lab ID: 1207D28-002

Matrix: AQUEOUS

Received Date: 7/31/2012 12:58:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	8/2/2012 12:54:19 AM
Toluene	ND	1.0		µg/L	1	8/2/2012 12:54:19 AM
Ethylbenzene	ND	1.0		µg/L	1	8/2/2012 12:54:19 AM
Xylenes, Total	ND	2.0		µg/L	1	8/2/2012 12:54:19 AM
m,p-Xylene	ND	1.0		µg/L	1	8/2/2012 12:54:19 AM
o-Xylene	ND	1.0		µg/L	1	8/2/2012 12:54:19 AM
Surr: 4-Bromofluorobenzene	78.0	55-140		%REC	1	8/2/2012 12:54:19 AM

Qualifiers:

- * /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207D28

06-Aug-12

Client: Cypress Engineering

Project: TWP WT-1 Station

Sample ID	5ML RB	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBW	Batch ID: R4607		RunNo: 4607						
Prep Date:	Analysis Date: 8/1/2012		SeqNo: 129287		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	15		20.00		75.5	55	140			

Sample ID	100NG BTEX LCS		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSW		Batch ID: R4607		RunNo: 4607					
Prep Date:			Analysis Date: 8/1/2012		SeqNo: 129288		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	108	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	112	80	120			
Xylenes, Total	69	2.0	60.00	0	114	80	120			
Surr: 4-Bromofluorobenzene	16		20.00		79.8	55	140			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: CYP Work Order Number: 1207D28

Received by/date: AL 07/31/12

Logged By: Anne Thorne 7/31/2012 12:58:00 PM *Anne Thorne*

Completed By: Anne Thorne 7/31/2012 *Anne Thorne*

Reviewed By: *[Signature]* 07/31/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Yes			

www.hallenvironmental.com

Tel. 505-345-3975 Fax 505-345-4107

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.