

GW - 109 R

MONITORING REPORTS

DATE:

2004 - 2002



Cypress Engineering

10235 West Little York Road, Suite 256
Houston, Texas 77040

(713) 856-7980 office
(713) 856-7981 fax

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January 24, 2004

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

JAN 28 2004

**Oil Conservation Division
Environmental Bureau**

RE: Report of Groundwater Remediation Activities
Transwestern Pipeline Company - WT-1 Station Engine Room Drain Pit Area
Lea County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for reporting of ground water remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (713) 345-1537 or Larry Campbell at (505) 625-8022.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment: Larry Campbell
Larry Johnson

Transwestern Pipeline Company
NMOCD Hobbs District Office

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1. Groundwater Monitoring Activities

1.1 Semi-Annual Groundwater Sampling Events

Two semi-annual groundwater-sampling events have been completed since the last report of remediation activities. These events were completed in February 2003 and August 2003.

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 is presented in Table 1. Similar measurements obtained from the remediation wells are presented in Table 2.

Groundwater samples were collected from selected monitoring wells at the site. Samples were not collected from wells with accumulated PSH in the well casing. Groundwater samples were delivered to a laboratory for analysis by EPA Method 8260 for volatile organic compounds, selected inorganic constituents by EPA Methods 6010 or 7470 (mercury), total dissolved solids by EPA Method 160.1, chlorides by EPA Method 325.2, nitrate and nitrite by EPA Method 353.1, and sulfate by EPA Method 375.4. A summary of field measured groundwater quality parameters (pH, temperature, electrical conductivity and dissolved oxygen) is presented in Table 3. A summary of organic and inorganic laboratory results is presented in Tables 4, 5, and 6. A copy of the laboratory results for each of the sampling events is included as an attachment to this report.

1.2 Results/Conclusions from Groundwater Sampling Events

1.2.1 Occurrence and Direction of Groundwater Flow

A water table elevation map based on measurements obtained in the course of the August 2003 sampling event is included as Figure 3. The apparent direction of groundwater flow is consistent with water table elevation maps previously developed for this site.

1.2.2 Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH is currently defined by the historical occurrence of PSH at the water table in monitor well MW-2 and the absence of PSH in all other wells. The thickness of accumulated PSH in monitor well MW-2 could not be measured during the last two sampling events due to the water table dropping below the total depth of the well.

1.2.3 Condition of Affected Groundwater

The condition of affected groundwater, based on the recent sampling events, has not changed significantly from previous sampling events as evidenced by the information presented in Table 4 and Table 6. The primary constituents of concern are benzene, 1,1-dichloroethane, and trichloroethene. Distribution maps for BTEX, selected halogenated compounds, and selected inorganic constituents are included as Figure 4, Figure 5, and Figure 6, respectively.

2. Status of Remediation Activities

2.1 Remediation Activities Completed through December 2003

The following remediation activities have been completed since the last report of groundwater remediation activities:

- 1) Two groundwater-sampling events were completed.
- 2) Excavation and removal of affected soil in the former surface impoundment areas was completed on April 29, 2003.

2.2 Remediation Activities Planned for January 2004 through December 2004

Semi-annual groundwater sampling will continue.

3. Proposed Modifications

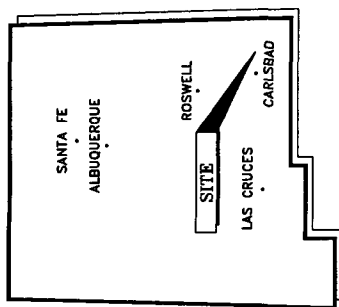
3.1 Modifications to the Routine Groundwater Sampling Plan

Sampling location, frequency and the sampling analysis plan will continue on a semi-annual basis. A summary of the sample analysis plan is presented in Table 8.

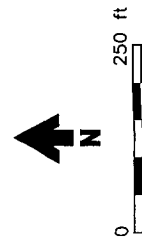
3.2 Reporting Frequency

Annual reporting will continue with the next scheduled report being submitted to the OCD by January 31, 2005.

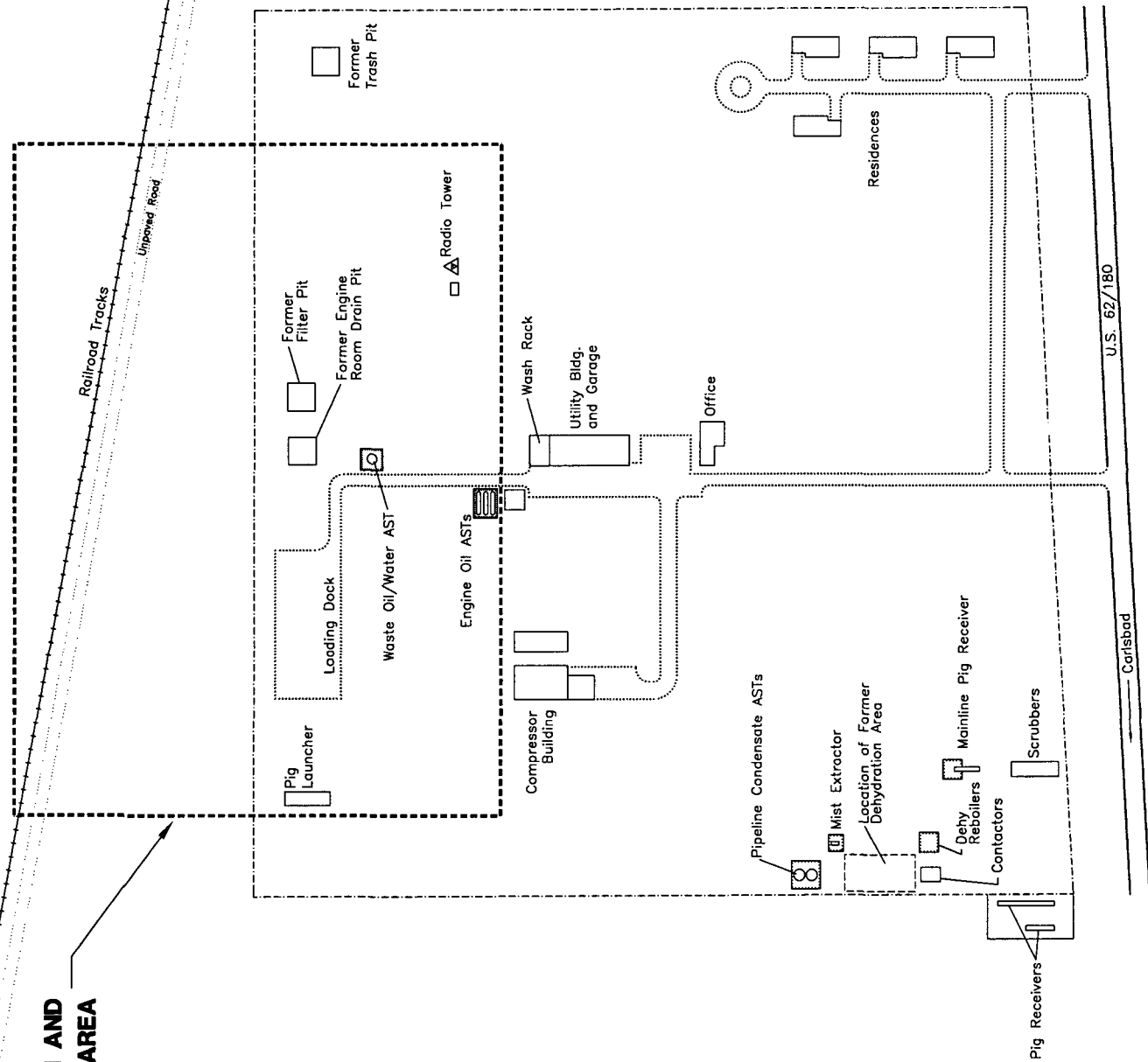
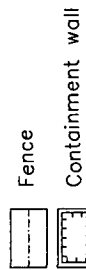
FORMER ENGINE ROOM DRAIN AND FILTER PIT REMEDIATION AREA



STATE OF NEW MEXICO



Explanation

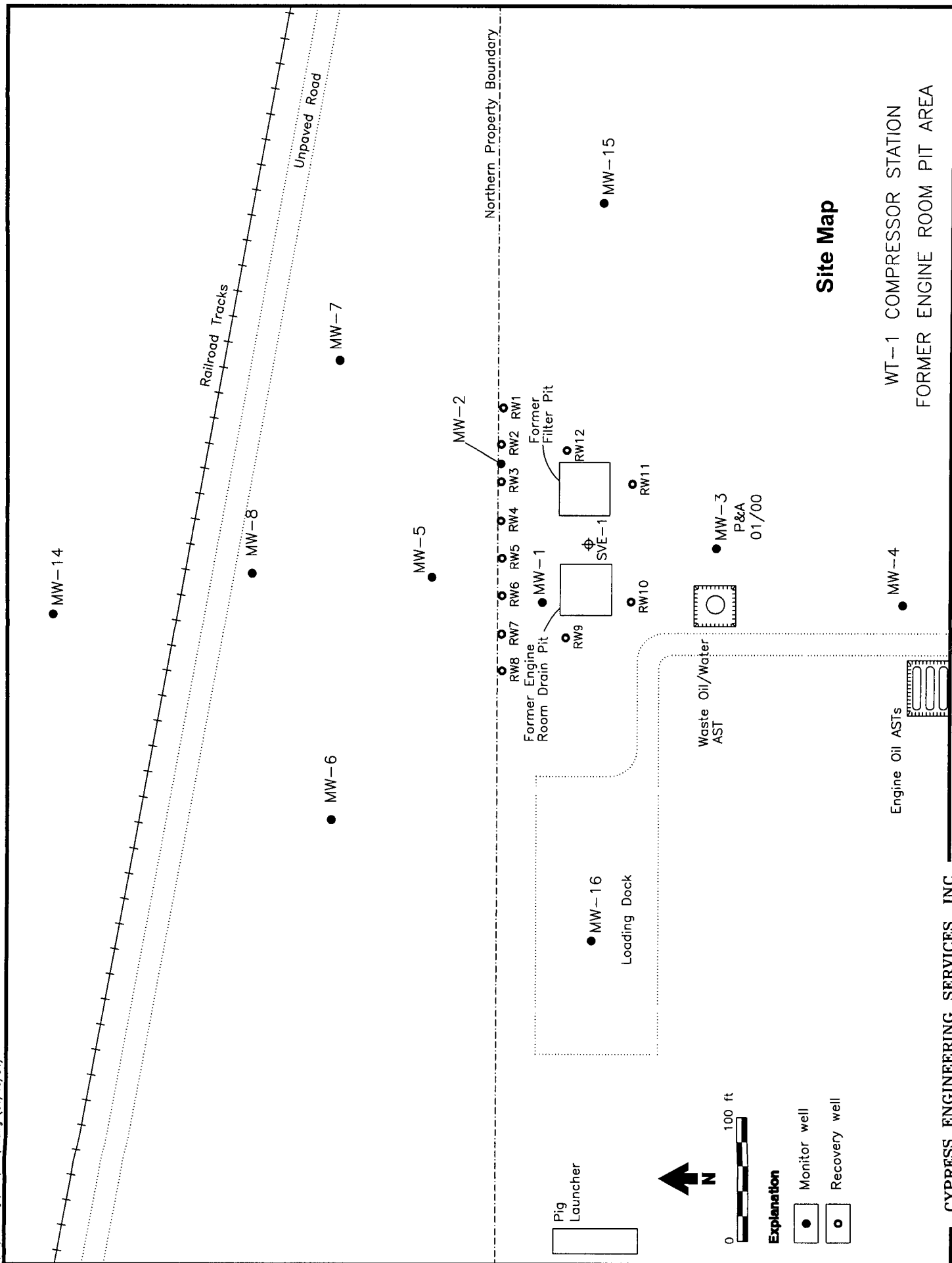


Facility Site Map

WT-1 COMPRESSOR STATION
TRANSWESTERN PIPELINE COMPANY

CYPRESS ENGINEERING SERVICES, INC.

Figure 1



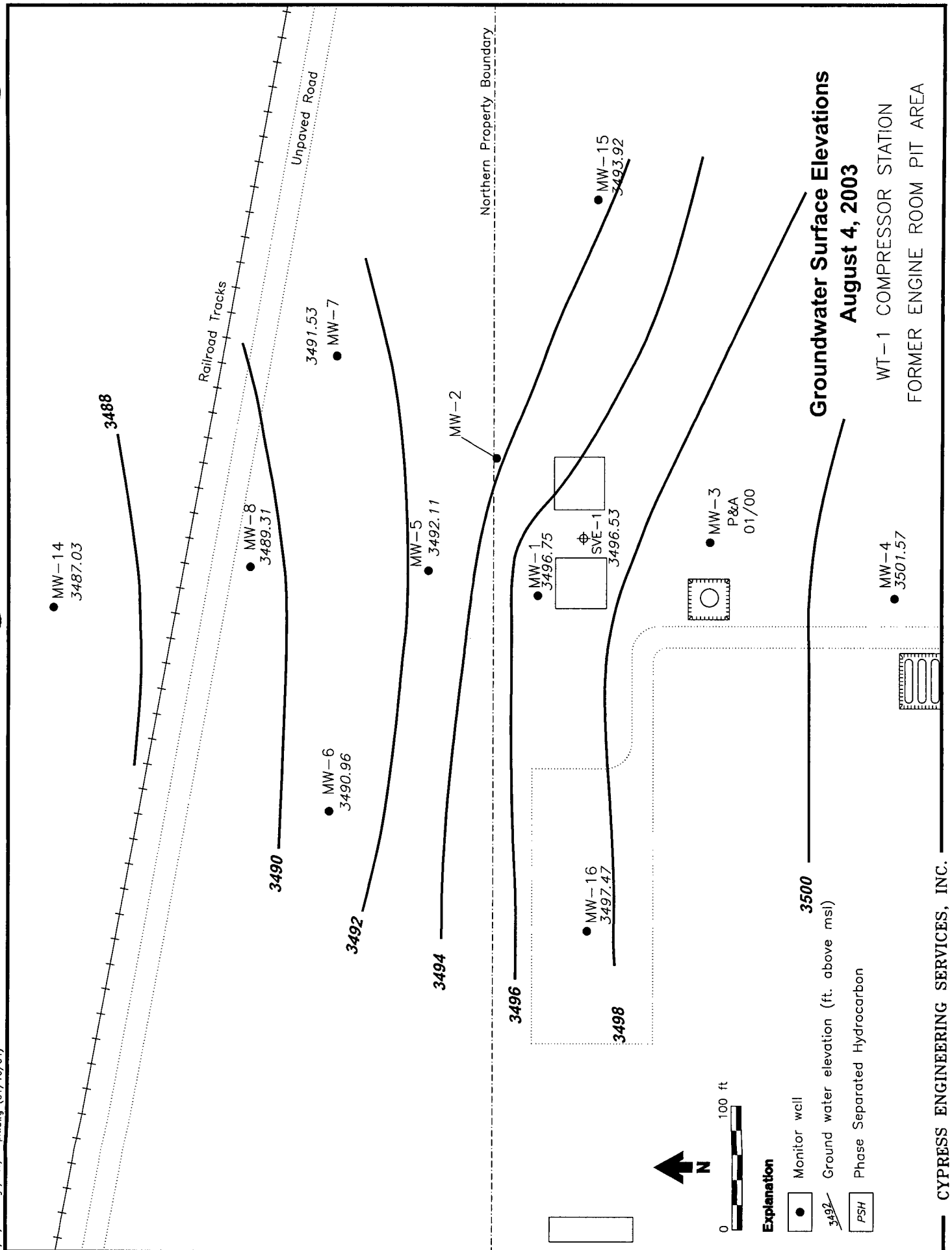


Figure 3

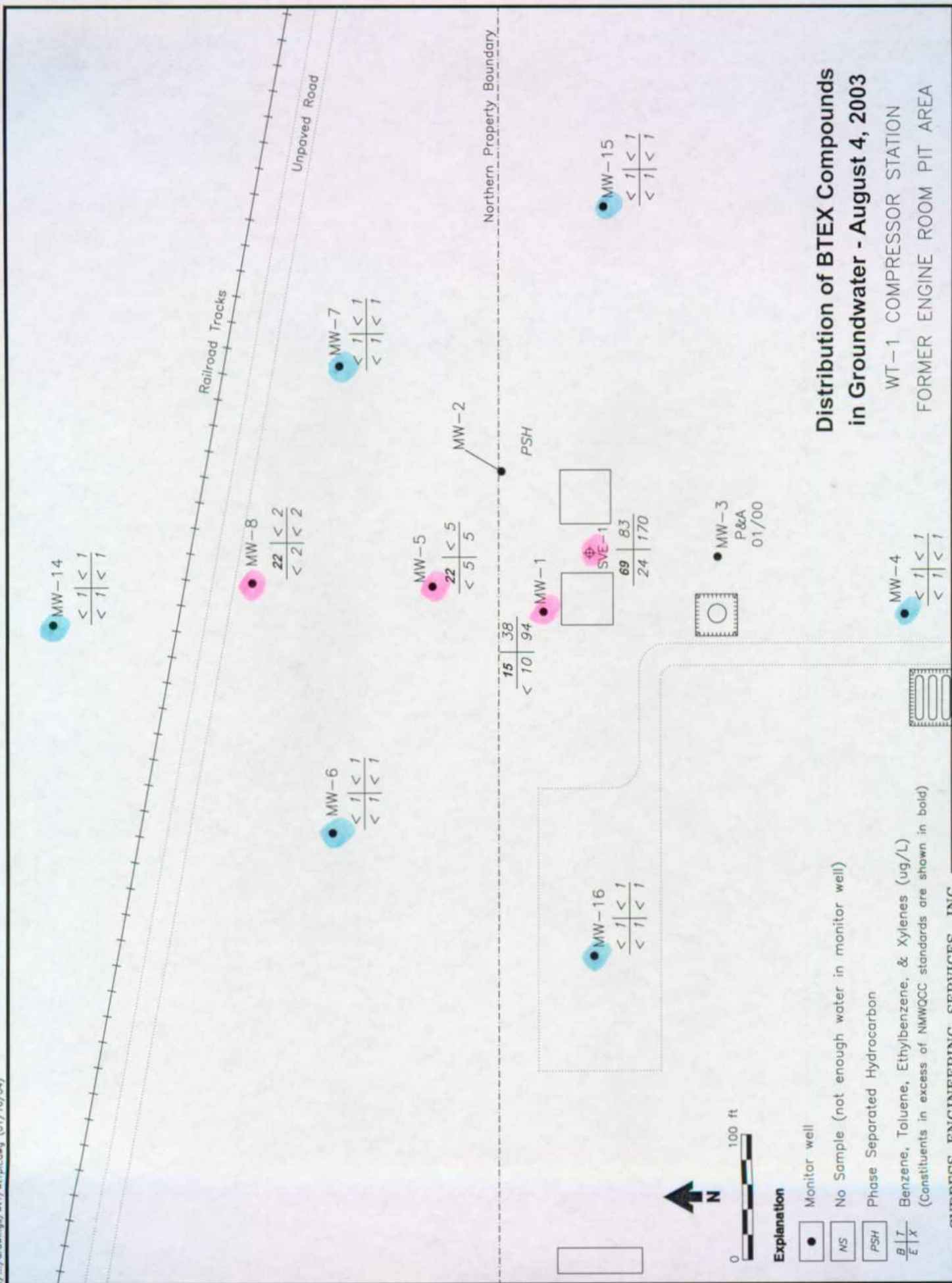


Figure 4

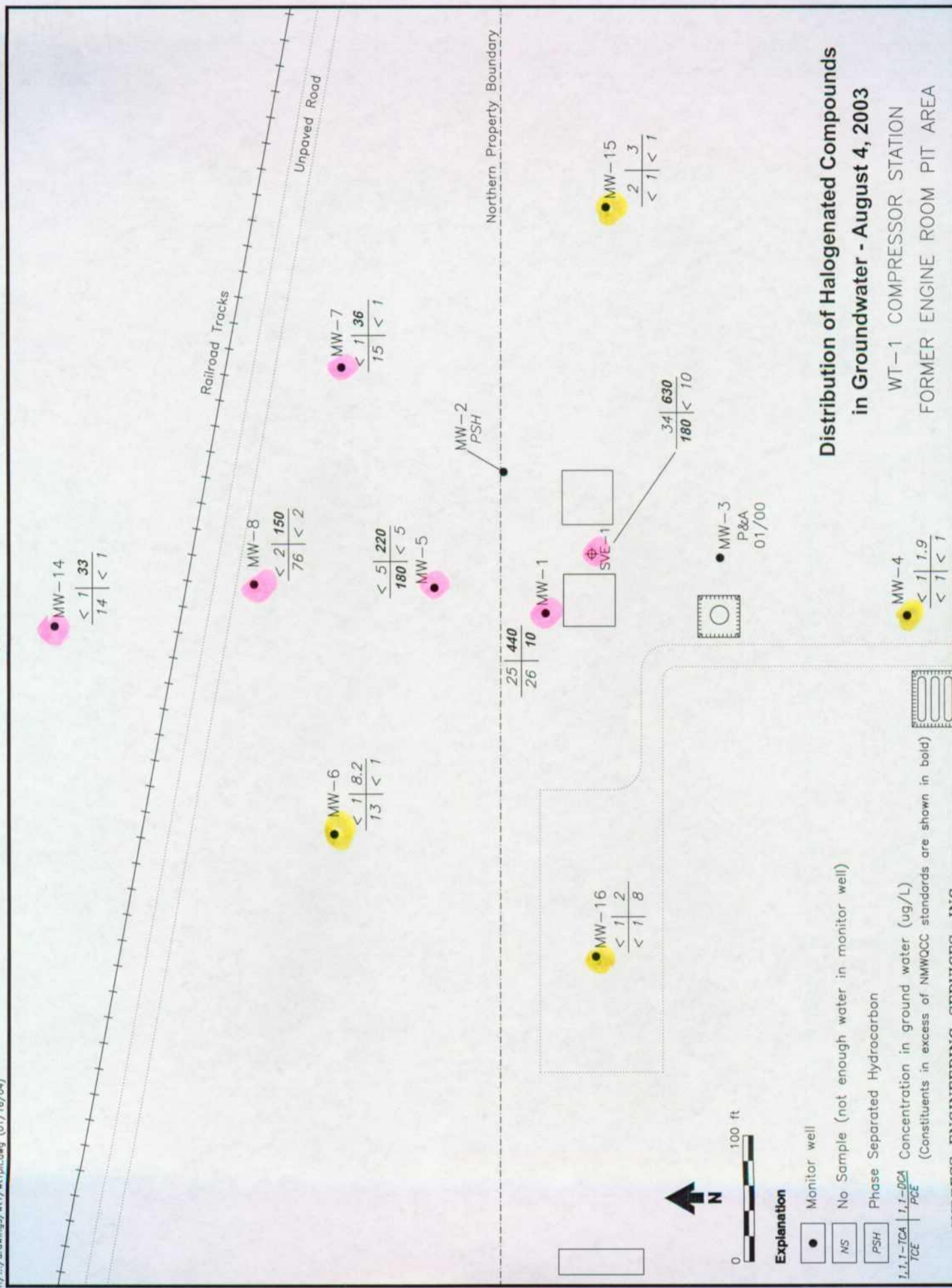


Figure 5

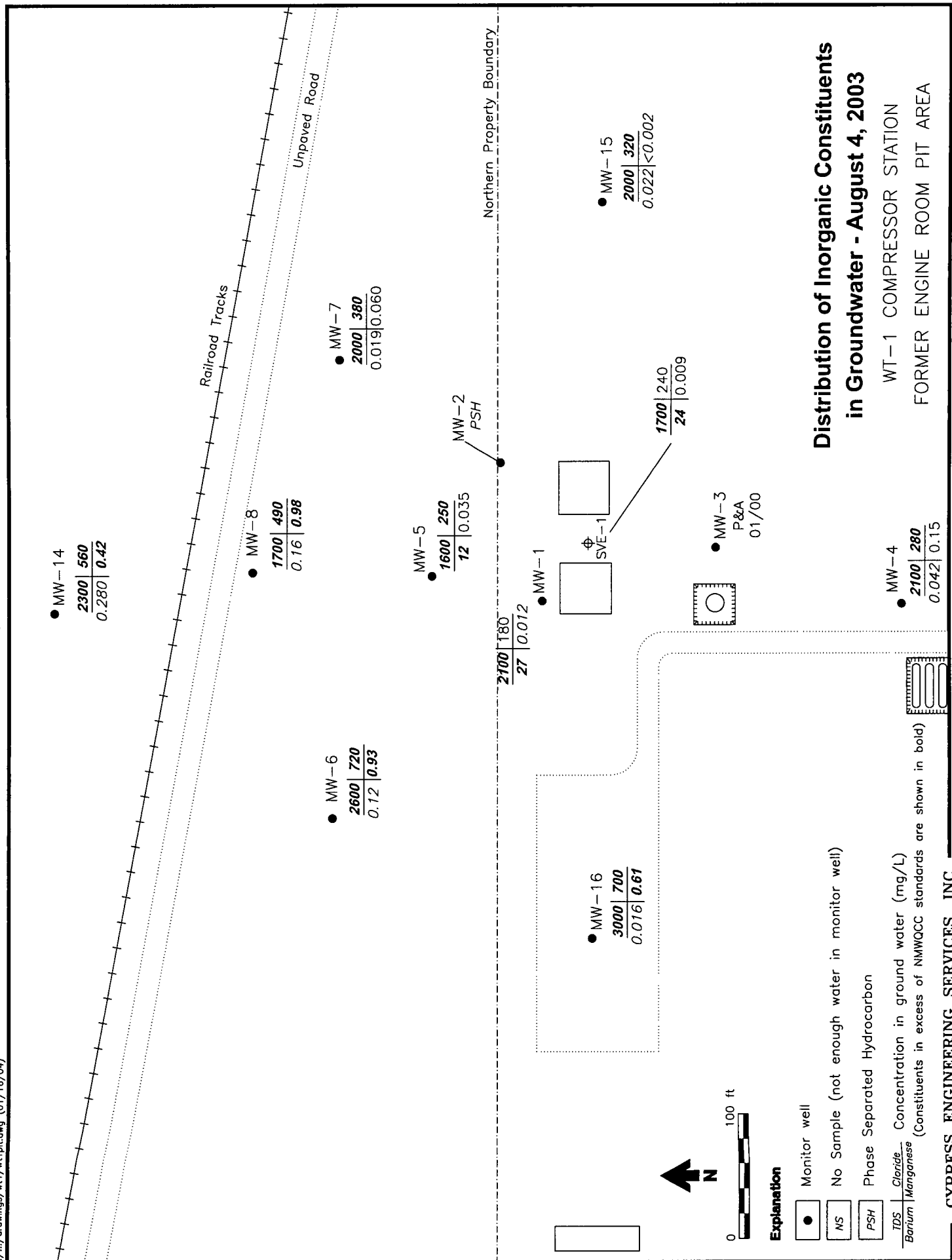


Figure 6

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-1	11/15/94	3547.67	(a)	47.59	(a)	3500.08
	09/14/95		(a)	48.85	(a)	3498.82
	11/12/96		(a)	49.79	(a)	3497.88
	02/04/97		(a)	49.71	(a)	3497.96
	05/10/97		(a)	49.86	(a)	3497.81
	08/06/97		(a)	49.90	(a)	3497.77
	10/08/97		(a)	49.76	(a)	3497.91
	01/21/98		(a)	50.73	(a)	3496.94
	04/15/98		(a)	49.68	(a)	3497.99
	07/16/98		(a)	49.91	(a)	3497.76
	01/26/99		(a)	49.39	(a)	3498.28
	07/08/99		(a)	49.52	sheen	3498.15
	01/26/00		(a)	49.43	sheen	3498.24
	07/17/00		(a)	50.04	sheen	3497.63
	11/21/00	3547.65 (c)	(a)	50.66	(a)	3496.99
	02/17/01		(a)	50.73	sheen	3496.92
	08/20/01		(a)	50.72	sheen	3496.93
	02/27/02		(a)	50.63	(a)	3497.02
	07/31/02		(a)	50.68	sheen	3496.97
	02/10/03		(a)	50.77	sheen	3496.88
	08/04/03		(a)	50.90	sheen	3496.75
MW-2	11/15/94	3546.28	PSH	-	-	NA
	09/12/95		PSH	-	-	NA
	11/12/96		49.91	-	NA *	NA *
	02/04/97		49.90	52.15	2.25	3495.93
	05/10/97		50.09	52.18	2.09	3495.77
	08/06/97		50.20	52.17	1.97	3495.69
	10/09/97		50.27	52.22	1.95	3495.62
	01/21/98		50.08	--	NA *	NA *
	04/15/98		49.97	--	NA *	NA *
	07/16/98		50.25	--	NA *	NA *
	01/26/99		50.10	--	NA *	NA *
	07/08/99		50.12	--	NA *	NA *
	01/26/00		50.54	52.17	1.63	3495.41
	07/17/00		50.62	--	NA *	NA *
	11/21/00	3546.28 (c)	50.95	--	NA *	NA *
	02/17/01		51.08	52.23	1.15	3494.97
	08/20/01		51.82	--	NA *	NA *
	02/27/02		51.94	--	NA *	NA *
	07/31/02		52.23	--	NA *	NA *
	02/10/03		(a)	dry	NA *	NA *
	08/04/03		(a)	dry	NA *	NA *
MW-3	11/16/94	3548.99	(a)	48.71	(a)	3500.28
	09/12/95		(a)	49.49	(a)	3499.50
	11/12/96		(a)	49.76	(a)	3499.23
	02/04/97		(a)	49.57	(a)	3499.42
	05/10/97		(a)	49.81	(a)	3499.18
	08/06/97		(a)	49.81	(a)	3499.18
	10/08/97		(a)	49.84	(a)	3499.15
	01/21/98		(a)	49.29	(a)	3499.70
	07/16/98		(a)	49.42	(a)	3499.57

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-1	11/15/94	3547.67	(a)	47.59	(a)	3500.08
	09/14/95		(a)	48.85	(a)	3498.82
	11/12/96		(a)	49.79	(a)	3497.88
	02/04/97		(a)	49.71	(a)	3497.96
	05/10/97		(a)	49.86	(a)	3497.81
	08/06/97		(a)	49.90	(a)	3497.77
	10/08/97		(a)	49.76	(a)	3497.91
	01/21/98		(a)	50.73	(a)	3496.94
	04/15/98		(a)	49.68	(a)	3497.99
	07/16/98		(a)	49.91	(a)	3497.76
	01/26/99		(a)	49.39	(a)	3498.28
	07/08/99		(a)	49.52	sheen	3498.15
	01/26/00		(a)	49.43	sheen	3498.24
	07/17/00		(a)	50.04	sheen	3497.63
	11/21/00	3547.65 (c)	(a)	50.66	(a)	3496.99
	02/17/01		(a)	50.73	sheen	3496.92
	08/20/01		(a)	50.72	sheen	3496.93
	02/27/02		(a)	50.63	(a)	3497.02
	07/31/02		(a)	50.68	sheen	3496.97
	02/10/03		(a)	50.77	sheen	3496.88
	08/04/03		(a)	50.90	sheen	3496.75
	11/15/94	3546.28	PSH	-	-	NA
	09/12/95		PSH	-	-	NA
	11/12/96		49.91	-	NA *	NA *
	02/04/97		49.90	52.15	2.25	3495.93
	05/10/97		50.09	52.18	2.09	3495.77
	08/06/97		50.20	52.17	1.97	3495.69
	10/09/97		50.27	52.22	1.95	3495.62
	01/21/98		50.08	--	NA *	NA *
	04/15/98		49.97	--	NA *	NA *
	07/16/98		50.25	--	NA *	NA *
	01/26/99		50.10	--	NA *	NA *
	07/08/99		50.12	--	NA *	NA *
	01/26/00		50.54	52.17	1.63	3495.41
MW-2	07/17/00		50.62	--	NA *	NA *
	11/21/00	3546.28 (c)	50.95	--	NA *	NA *
	02/17/01		51.08	52.23	1.15	3494.97
	08/20/01		51.82	--	NA *	NA *
	02/27/02		51.94	--	NA *	NA *
	07/31/02		52.23	--	NA *	NA *
	02/10/03		(a)	dry	NA *	NA *
	08/04/03		(a)	dry	NA *	NA *
MW-3	11/16/94	3548.99	(a)	48.71	(a)	3500.28
	09/12/95		(a)	49.49	(a)	3499.50
	11/12/96		(a)	49.76	(a)	3499.23
	02/04/97		(a)	49.57	(a)	3499.42
	05/10/97		(a)	49.81	(a)	3499.18
	08/06/97		(a)	49.81	(a)	3499.18
	10/08/97		(a)	49.84	(a)	3499.15
	01/21/98		(a)	49.29	(a)	3499.70
	07/16/98		(a)	49.42	(a)	3499.57

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-7	10/08/97	3543.33 (c)	(a)	51.88	(a)	3491.41
	01/21/98		(a)	51.72	(a)	3491.57
	04/15/98		(a)	51.63	(a)	3491.66
	07/16/98		(a)	51.87	(a)	3491.42
	01/26/99		(a)	51.39	(a)	3491.90
	07/08/99		(a)	51.65	(a)	3491.64
	01/26/00		(a)	51.59	(a)	3491.70
	07/17/00		(a)	52.11	(a)	3491.18
	11/21/00		(a)	52.64	(a)	3490.69
	02/17/01		(a)	52.74	(a)	3490.59
	08/20/01		(a)	52.68	(a)	3490.65
	02/27/02		(a)	52.46	(a)	3490.87
	07/31/02		(a)	52.27	(a)	3491.06
	02/10/03		(a)	52.27	(a)	3491.06
	08/04/03		(a)	52.37	(a)	3490.96
	11/30/94	3541.97	(a)	47.67	(a)	3494.30
	09/12/95		(a)	48.54	(a)	3493.43
	11/12/96		(a)	48.67	(a)	3493.30
	02/04/97		(a)	48.83	(a)	3493.14
	05/10/97		(a)	49.05	(a)	3492.92
	08/06/97		(a)	48.96	(a)	3493.01
	10/08/97		(a)	48.74	(a)	3493.23
	01/21/98		(a)	48.65	(a)	3493.32
	04/15/98		(a)	48.71	(a)	3493.26
	07/16/98		(a)	49.12	(a)	3492.85
	01/26/99		(a)	48.70	(a)	3493.27
	07/08/99		(a)	48.96	(a)	3493.01
MW-8	01/26/00	3542.00 (c)	(a)	48.72	(a)	3493.25
	07/17/00		(a)	49.25	(a)	3492.72
	11/21/00		(a)	50.18	(a)	3491.82
	02/17/01		(a)	49.82	(a)	3492.18
	08/20/01		(a)	50.21	(a)	3491.79
	02/27/02		(a)	49.86	(a)	3492.14
	07/31/02		(a)	50.06	(a)	3491.94
	02/10/03		(a)	50.26	(a)	3491.74
	08/04/03		(a)	50.47	(a)	3491.53
	11/30/94	3541.47	(a)	49.20	(a)	3492.27
	09/13/95		(a)	50.14	(a)	3491.33
	11/12/96		(a)	50.73	(a)	3490.74
	02/04/97		(a)	50.79	(a)	3490.68
	05/10/97		(a)	51.03	(a)	3490.44
	08/06/97		(a)	51.08	(a)	3490.39
	10/08/97		(a)	50.90	(a)	3490.57
	01/21/98		(a)	50.73	(a)	3490.74
	04/15/98		(a)	49.62	(a)	3491.85
	07/16/98		(a)	50.96	(a)	3490.51
	01/26/99		(a)	50.55	(a)	3490.92
	07/08/99		(a)	50.84	(a)	3490.63
	01/26/00		(a)	50.72	(a)	3490.75
	07/17/00		(a)	51.23	(a)	3490.24
	11/21/00	3541.49 (c)	(a)	51.75	(a)	3489.74

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-14	02/17/01		(a)	51.93	(a)	3489.56
	08/20/01		(a)	51.89	(a)	3489.60
	02/27/02		(a)	51.88	(a)	3489.61
	07/31/02		(a)	51.92	(a)	3489.57
	02/10/03		(a)	52.09	(a)	3489.40
	08/04/03		(a)	52.18	(a)	3489.31
	09/13/95	3539.71	(a)	51.53	(a)	3488.18
	11/12/96	3539.73 (c)	(a)	51.96	(a)	3487.75
	02/04/97		(a)	52.00	(a)	3487.71
	05/10/97		(a)	52.12	(a)	3487.59
	08/06/97		(a)	52.11	(a)	3487.60
	10/08/97		(a)	51.95	(a)	3487.76
	01/21/98		(a)	51.88	(a)	3487.83
	04/15/98		(a)	51.83	(a)	3487.88
	07/16/98		(a)	52.09	(a)	3487.62
	01/26/99		(a)	51.72	(a)	3487.99
	07/08/99		(a)	51.95	(a)	3487.76
	01/26/00		(a)	51.77	(a)	3487.94
	07/17/00		(a)	52.17	(a)	3487.54
	11/21/00		(a)	52.60	(a)	3487.13
	02/17/01		(a)	53.69	(a)	3486.04
	08/20/01		(a)	52.61	(a)	3487.12
	02/27/02		(a)	52.55	(a)	3487.18
	07/31/02		(a)	52.56	(a)	3487.17
	02/10/03		(a)	52.64	(a)	3487.09
	08/04/03		(a)	52.70	(a)	3487.03
MW-15	09/14/95	3542.82	(a)	46.43	(a)	3496.39
	11/12/96	3542.82 (c)	(a)	46.61	(a)	3496.21
	02/04/97		(a)	46.90	(a)	3495.92
	05/10/97		(a)	47.23	(a)	3495.59
	08/06/97		(a)	46.97	(a)	3495.85
	10/08/97		(a)	46.75	(a)	3496.07
	01/21/98		(a)	46.62	(a)	3496.20
	04/15/98		(a)	46.81	(a)	3496.01
	07/16/98		(a)	47.24	(a)	3495.58
	01/26/99		(a)	46.71	(a)	3496.11
	07/08/99		(a)	46.99	(a)	3495.83
	01/26/00		(a)	46.88	(a)	3495.94
	07/17/00		(a)	47.54	(a)	3495.28
	11/21/00		(a)	48.06	(a)	3494.76
	02/17/01		(a)	48.24	(a)	3494.58
	08/20/01		(a)	48.39	(a)	3494.43
	02/27/02		(a)	48.37	(a)	3494.45
	07/31/02		(a)	48.52	(a)	3494.30
	02/10/03		(a)	48.75	(a)	3494.07
	08/04/03		(a)	48.90	(a)	3493.92
MW-16	09/14/95	3546.01	(a)	48.86	(a)	3497.15
	11/12/96		(a)	49.42	(a)	3496.59
	02/04/97		(a)	49.41	(a)	3496.60
	05/10/97		(a)	49.51	(a)	3496.50

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
	08/06/97	3545.68 (c)	(a)	49.57	(a)	3496.44
	10/08/97		(a)	49.36	(a)	3496.65
	01/21/98		(a)	49.00	(a)	3497.01
	04/15/98		(a)	48.84	(a)	3497.17
	07/16/98		(a)	49.02	(a)	3496.99
	01/26/99		(a)	48.46	(a)	3497.55
	07/08/99		(a)	48.79	(a)	3497.22
	01/26/00		(a)	48.96	(a)	3497.05
	07/17/00		(a)	49.18	(a)	3496.83
	11/21/00		(a)	49.65	(a)	3496.03
	02/17/01		(a)	49.73	(a)	3495.95
	08/20/01		(a)	49.62	(a)	3496.06
	02/27/02		(a)	49.78	(a)	3495.90
	07/31/02		(a)	48.35	(a)	3497.33
	02/10/03		(a)	48.28	(a)	3497.40
	08/04/03		(a)	48.21	(a)	3497.47
SVE-1A	01/26/00	3545.58	(a)	47.33	(a)	3498.25
	07/17/00	3545.59 (c)	(a)	47.95	(a)	3497.63
	11/21/00		(a)	48.56	(a)	3497.03
	02/17/01		(a)	48.71	(a)	3496.88
	08/20/01		(a)	48.90	(a)	3496.69
	02/27/02		(a)	48.73	(a)	3496.86
	07/31/02		(a)	48.80	(a)	3496.79
	02/10/03		(a)	48.92	(a)	3496.67
	08/04/03		(a)	49.06	(a)	3496.53

NOTES:

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

(b) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.88 (0.80 used for 07/17/00 and prior)

(c) Survey by John West Surveying Co. on October 31, 2000.

NA* - No PSH/water interface detected

**Table 2. Summary of Groundwater Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-1	11/21/00*	3545.97 (c)	51.86	51.87	0.01	3494.11
	11/30/00		(a)	51.67	sheen	3494.30
	12/06/00		(a)	51.91	sheen	3494.06
	01/25/01		(a)	51.78	sheen	3494.19
	02/06/01		51.67	51.68	0.01	3494.30
	02/17/01*		52.07	52.08	0.01	3493.90
	02/23/01		(a)	51.50	sheen	3494.47
	03/09/01		(a)	51.61	sheen	3494.36
	08/20/01		(a)	52.18	sheen	3493.79
	02/27/02		(a)	52.22	sheen	3493.75
	07/31/02		(a)	52.68	(a)	3493.29
	02/10/03		(a)	52.65	(a)	3493.32
	08/04/03		(a)	52.86	(a)	3493.11
RW-2	11/21/00*	3546.26 (c)	(a)	52.18	(a)	3494.08
	11/30/00		(a)	51.96	(a)	3494.30
	12/06/00		(a)	52.61	sheen	3493.65
	01/25/01		(a)	52.05	sheen	3494.21
	02/06/01		(a)	51.94	sheen	3494.32
	02/17/01*		(a)	52.38	sheen	3493.88
	02/23/01		(a)	51.75	sheen	3494.51
	03/09/01		(a)	51.80	sheen	3494.46
	08/20/01		(a)	52.42	sheen	3493.84
	02/27/02		(a)	52.46	(a)	3493.80
	07/31/02		(a)	52.68	(a)	3493.58
	02/10/03		(a)	52.88	sheen	3493.38
	08/04/03		(a)	53.08	sheen	3493.18
RW-3	11/21/00*	3546.41 (c)	52.27	52.29	0.02	3494.14
	11/30/00		52.02	52.07	0.05	3494.38
	12/06/00		52.12	52.13	0.01	3494.29
	01/25/01		52.13	52.19	0.06	3494.27
	02/06/01		51.92	52.00	0.08	3494.47
	02/17/01*		52.41	52.43	0.02	3494.00
	02/23/01		51.80	51.83	0.03	3494.60
	03/09/01		51.81	51.84	0.03	3494.59
	03/30/01		50.92	50.94	0.02	3495.49
	08/20/01		(a)	52.42	(a)	3493.99
	02/27/02		(a)	52.58	sheen	3493.83
	07/31/02		(a)	52.46	(a)	3493.95
	02/10/03		(a)	52.85	sheen	3493.56
	08/04/03		(a)	52.09	(a)	3494.32
RW-4	11/21/00*	3546.96 (c)	(a)	52.45	(a)	3494.51
	11/30/00		(a)	52.20	sheen	3494.76
	12/06/00		(a)	52.33	(a)	3494.63
	01/25/01		(a)	52.29	(a)	3494.67
	02/06/01		(a)	52.09	(a)	3494.87
	02/17/01*		(a)	52.52	(a)	3494.44
	02/23/01		(a)	51.97	(a)	3494.99
	03/09/01		(a)	52.01	(a)	3494.95
	03/30/01		(a)	52.06	sheen	3494.90
	08/20/01		(a)	52.55	(a)	3494.41

**Table 2. Summary of Groundwater Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-5	02/27/02	3546.75 (c)	(a)	52.75	(a)	3494.21
	07/31/02		(a)	52.77	(a)	3494.19
	02/10/03		(a)	52.90	(a)	3494.06
	08/04/03		(a)	53.04	(a)	3493.92
	11/21/00*		(a)	50.76	(a)	3495.99
	11/30/00		(a)	50.56	(a)	3496.19
	12/06/00		(a)	50.78	sheen	3495.97
	01/25/01		(a)	50.64	(a)	3496.11
	02/06/01		(a)	50.54	(a)	3496.21
	02/17/01*		(a)	50.98	(a)	3495.77
	02/23/01		(a)	50.39	(a)	3496.36
	03/09/01		(a)	50.44	(a)	3496.31
	03/30/01		(a)	50.60	(a)	3496.15
	08/20/01		(a)	50.95	(a)	3495.80
	02/27/02		(a)	51.03	(a)	3495.72
	07/31/02		(a)	51.12	(a)	3495.63
	02/10/03		(a)	51.24	(a)	3495.51
	08/04/03		(a)	51.32	(a)	3495.43
RW-6	11/21/00*	3546.69 (c)	(a)	50.72	(a)	3495.97
	11/30/00		(a)	50.47	(a)	3496.22
	12/06/00		(a)	50.71	sheen	3495.98
	01/25/01		(a)	50.53	(a)	3496.16
	02/06/01		(a)	50.32	(a)	3496.37
	02/17/01*		(a)	50.87	(a)	3495.82
	02/23/01		(a)	50.20	(a)	3496.49
	03/09/01		(a)	50.27	(a)	3496.42
	03/30/01		(a)	50.39	(a)	3496.30
	08/20/01		(a)	50.82	(a)	3495.87
	02/27/02		(a)	50.85	(a)	3495.84
	07/31/02		(a)	50.83	(a)	3495.86
	02/10/03		(a)	50.95	(a)	3495.74
	08/04/03		(a)	51.04	(a)	3495.65
RW-7	11/21/00*	3547.50 (c)	(a)	51.27	(a)	3496.23
	11/30/00		(a)	51.01	(a)	3496.49
	12/06/00		(a)	51.22	sheen	3496.28
	01/25/01		(a)	51.10	(a)	3496.40
	02/06/01		(a)	50.92	sheen	3496.58
	02/17/01*		(a)	51.42	(a)	3496.08
	02/23/01		(a)	50.77	(a)	3496.73
	03/09/01		(a)	50.76	(a)	3496.74
	03/30/01		(a)	50.93	(a)	3496.57
	08/20/01		(a)	51.35	(a)	3496.15
	02/27/02		(a)	51.44	(a)	3496.06
	07/31/02		(a)	51.34	(a)	3496.16
	02/10/03		(a)	51.44	(a)	3496.06
	08/04/03		(a)	51.52	(a)	3495.98
RW-8	11/21/00*	3547.04 (c)	(a)	50.20	(a)	3496.84
	11/30/00		(a)	50.06	sheen	3496.98
	12/06/00		(a)	50.28	(a)	3496.76

**Table 2. Summary of Groundwater Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-9	01/25/01	3545.84 (c)	(a)	50.14	(a)	3496.90
	02/06/01		(a)	50.05	sheen	3496.99
	02/17/01*		(a)	50.42	(a)	3496.62
	02/23/01		(a)	49.95	(a)	3497.09
	03/09/01		(a)	50.01	(a)	3497.03
	03/30/01		(a)	50.09	(a)	3496.95
	08/20/01		(a)	50.40	(a)	3496.64
	02/27/02		(a)	50.27	(a)	3496.77
	07/31/02		(a)	50.19	(a)	3496.85
	02/10/03		50.33	50.33	sheen	3496.71
	08/04/03		50.42	50.42	sheen	3496.62
	11/21/00*		(a)	48.41	(a)	3497.43
	11/30/00		(a)	48.17	sheen	3497.67
RW-10	12/06/00	3546.32 (c)	(a)	43.42	(a)	3502.42
	01/25/01		(a)	48.25	(a)	3497.59
	02/06/01		(a)	48.12	(a)	3497.72
	02/17/01*		(a)	48.60	(a)	3497.24
	02/23/01		(a)	47.94	(a)	3497.90
	03/09/01		(a)	47.99	(a)	3497.85
	08/20/01		(a)	48.52	(a)	3497.32
	02/27/02		(a)	48.37	(a)	3497.47
	07/31/02		(a)	48.39	(a)	3497.45
	02/10/03		(a)	48.50	(a)	3497.34
	11/21/00*		(a)	48.36	(a)	3497.96
	11/30/00		(a)	48.13	(a)	3498.19
	12/06/00		(a)	48.40	(a)	3497.92
RW-11	01/25/01	3545.74 (c)	(a)	48.43	(a)	3497.89
	02/06/01		(a)	48.11	(a)	3498.21
	02/17/01*		(a)	48.60	(a)	3497.72
	02/23/01		(a)	47.92	(a)	3498.40
	03/09/01		(a)	50.01	(a)	3496.31
	08/20/01		(a)	48.57	(a)	3497.75
	02/27/02		(a)	48.33	(a)	3497.99
	07/31/02		(a)	48.39	(a)	3497.93
	02/10/03		(a)	48.48	(a)	3497.84
	08/04/03		(a)	48.63	(a)	3497.69
	11/21/00*		(a)	48.51	(a)	3497.23
	11/30/00		(a)	48.01	(a)	3497.73
	12/06/00		(a)	48.55	(a)	3497.19
	01/25/01		(a)	48.24	(a)	3497.50
	02/06/01		(a)	48.30	(a)	3497.44
	02/17/01*		(a)	48.76	(a)	3496.98
	02/23/01		(a)	48.12	(a)	3497.62
	03/09/01		(a)	48.19	(a)	3497.55
	08/20/01		(a)	48.90	(a)	3496.84
	02/27/02		(a)	48.74	(a)	3497.00
	07/31/02		(a)	48.92	(a)	3496.82
	02/10/03		(a)	49.07	(a)	3496.67
	08/04/03		(a)	49.25	(a)	3496.49

**Table 2. Summary of Groundwater Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-12	11/21/00*	3544.43 (c)	(a)	49.44	(a)	3494.99
	11/30/00		(a)	49.11	(a)	3495.32
	12/06/00		(a)	49.17	(a)	3495.26
	01/25/01		(a)	49.53	(a)	3494.90
	02/06/01		(a)	49.24	(a)	3495.19
	02/17/01*		(a)	49.70	(a)	3494.73
	02/23/01		(a)	49.07	(a)	3495.36
	03/09/01		(a)	49.14	(a)	3495.29
	08/20/01		(a)	49.77	(a)	3494.66
	02/27/02		(a)	49.74	(a)	3494.69
	07/31/02		(a)	49.95	(a)	3494.48
	02/10/03		(a)	50.13	(a)	3494.30
	08/04/03		(a)	50.37	(a)	3494.06

NOTES:

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

(b) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.88 (0.80 used for 07/17/00 and prior)

(c) Survey by John West Surveying Co. on October 31, 2000.

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
MW-1	11/12/96	0.0	6.67	22.2	—	—	strong mercaptin odor, bailed dry 1 gal
	02/04/97	0.0	6.70	17.3	3,100	39.3/127	strong odor, blk color, bailed dry 1 gal
	05/10/96	—	6.92	21.8	3,110	62.0	strong odor, blk/gry color
	08/08/97	0.0	6.88	20.3	3,260	101	clear to gray, strong odor
	10/09/97	1.2	6.89	21.6	3,080	—	gray blk, strong odor
	01/23/98	0.0	6.65	17.1	2,970	—	strong odor, amber color
	04/17/98	0.9	6.96	19.9	3,070	58.0	clear, gold tint, strong odor
	07/17/98	0.1	6.91	22.4	3,400	9.97	clear, light tint, strong odor
	01/27/99	—	6.81	20.8	3,020	—	clear, odor
	08/21/01	0.8	6.78	23.4	2,380	—	gray odor, pumped dry @ 1 gallon purged
	03/01/02	1.2/0.2	7.06	21.6	2,940	—	clear, odor
	08/01/02	1.0	7.04	27.2	2,960	6.77	clear, odor
	02/12/03	—	—	—	—	—	sheen
	08/05/03	—	—	—	—	12.93	sheen
MW-4	11/12/96	—	7.10	20.8	—	—	clear, no odor
	02/04/97	4.0	7.17	17.5	3,400	41.8/32	fine red silt, no odor
	05/10/97	3.0	7.09	19.7	3,400	5.46	very slight brn silt, mostly clear
	08/06/97	3.5	7.02	21.7	3,390	45.2	red silty
	10/08/97	3.0	7.05	21.5	3,060	—	slightly silty, light gold to brown
	01/23/98	0.6/0.8	7.11	18.7	2,640	—	clear
	04/16/98	1.8/0.4	7.00	21.1	2,720	2.5	clear
	07/16/98	1.3/0.8	6.99	21.6	3,090	0.67	clear
	01/26/99	1.2	7.01	19.1	2,740	—	clear
	07/08/99	3.3/1.4	7.12	21.0	3,050	0.76	clear, no odor
	01/27/00	—	7.03	19.1	3,070	—	clear
	07/17/00	2.6/2.6	7.06	20.6	3,100	3.49	clear
	02/17/01	3.5	7.07	20.5	3,130	—	clear
	08/21/01	3.1	6.96	20.3	3,010	—	clear
	02/28/02	0.7	7.01	21.1	2,860	—	clear
	08/01/02	1.2	7.03	23.5	3,000	1.19	clear
	02/12/03	1.1	6.97	22.2	3,010	—	clear
	08/05/03	0.9	6.97	22.8	2,910	0.89	clear
MW-5	11/12/96	—	7.00	23.1	—	—	strong odor, bailed dry 3.5 gal
	02/06/97	0.6	7.17	15.7	3,600	303/2040	strong odor, silty, foamy
	05/10/96	0.8	7.25	20.7	3,500	295	strong odor, red-yellow color, bailed dry 3.5g
	08/07/97	4.9	7.47	20.7	2,810	173	silty, red
	10/09/97	0.2	7.12	22.9	2,970	—	red silty, strong odor
	01/24/98	0.8	7.14	18.7	2,870	31.1	clear, amber color, strong odor
	04/17/98	0.6	7.16	20.2	2,840	52.0	clear, amber tint, strong odor
	07/17/98	0.7	7.02	22.5	3,140	43.18	foamy, light tint, strong odor
	01/27/99	0.6	7.10	20.5	2,700	—	clear, odor
	07/08/99	0.9/0.4	7.11	21.5	2,780	36.98	clear, light amber tint
	01/27/00	—	7.06	19.9	2,820	—	clear, strong odor
	07/18/00	0.0	7.12	23.5	2,800	25.00	clear, amber tint, odor
	02/18/01	0.9	7.13	19.5	2,760	—	clear, amber tint, odor
	08/21/01	1.0	7.01	23.7	2,410	—	grayblack, strong odor
	03/01/02	1.0	7.23	20.6	2,610	—	clear, amber tint, odor
	08/01/02	1.0	7.16	26.2	2,680	6.62	clear, odor
	02/12/03	1.0	7.14	22.3	2,580	—	clear, amber tint, odor
	08/05/03	0.4	7.07	24.4	2,370	22.73	clear, odor
MW-6	11/12/96	—	—	21.6	—	—	red silty
	02/04/97	2.0	6.56	17.0	3,800	279/600	fine red silt, no odor
	05/10/97	1.8	6.96	21.7	3,800	234	red silty
	08/07/97	1.8	6.89	20.2	3,730	173	red silty
	10/09/97	1.7	6.89	19.3	3,510	—	red silty
	01/23/98	0.6	6.81	19.7	3,460	—	slightly turbid
	04/16/98	0.4	6.87	19.1	3,470	15.36	clear
	07/16/98	2.9/1.6	6.84	22.6	3,810	5.37	clear, took 4 cycles to get final parameters
	01/27/99	1.1	6.79	19.6	3,550	—	clear, odor
	07/08/99	1.8/1.0	6.85	21.2	3,760	4.64	clear, slight odor, took 4 cycles to get final parameters
	01/27/00	—	6.85	19.3	3,800	—	clear, slight odor
	07/18/00	0.5	6.87	21.9	3,790	1.54	clear, slight odor

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
	02/18/01	1.5	6.88	20.2	3,800	--	clear
	08/21/01	1.5	6.68	22.9	3,560	--	clear with odor
	02/28/02	1.3	6.88	21.6	3,810	--	clear
	08/01/02	1.5	6.89	24.6	3,830	3.57	clear
	02/12/03	1.5	6.87	22.3	3,930	--	clear
	08/05/03	1.1	6.86	24.4	3,910	4.63	clear
MW-7	11/12/97	--	7.16	23.6	--	--	red silty
	02/04/97	2.0	6.89	--	2,900	539/2080	fine red silt, no odor
	05/10/97	2.0	7.17	21.1	2,970	>1000	red silty/sandy
	08/07/97	2.0	7.18	20.2	2,970	18.8	slight red silt
	10/09/97	2.6	7.20	19.6	2,750	--	red silty
	01/23/98	1.1/1.6	7.10	18.7	2,730	--	clear
	04/17/98	2.5/2.6	7.21	18.0	2,720	1.64	clear
	07/16/98	3.5	7.12	21.7	2,970	1.81	clear
	01/27/99	2.6	7.10	19.9	2,740	--	clear
	07/08/99	3.4	7.16	20.7	2,850	1.12	clear
	01/27/00	--	7.13	18.9	2,840	--	clear
	07/18/00	2.3	7.22	21.9	2,780	1.98	clear
	02/18/01	2.8	7.18	19.8	2,790	--	clear
	08/21/01	4.0	7.11	22.5	2,660	--	clear
	02/28/02	2.5	7.21	20.6	2,800	--	clear
	08/01/02	--	--	--	--	--	turbid, pulled pump and bailed
	02/12/03	2.6	7.12	22.2	2,820	--	red turbid
	08/05/03	3.3	7.16	22.0	2,450	> 100	Red sand/ turbid
MW-8	11/12/96	--	6.91	22.1	--	--	very fine red silt,
	02/06/97	2.0	6.95	14.1	3,000	<1000/590	red, silty, no odor
	05/10/97	1.6	7.00	22.0	3,040	193	red silt/sand
	08/07/97	1.1	6.97	20.1	3,040	237	red silt
	10/09/97	2.9	6.95	20.8	2,800	--	red silty
	01/24/98	0/0.2	6.90	19.0	2,810	26.17	Lt. amber color, clear
	04/17/98	0.9	6.97	19.2	2,860	25.46	clear, Lt. amber color
	07/17/98	0.2/0.0	6.85	22.5	3,070	4.10	clear, odor
	01/27/99	0.8/0.0	6.84	19.4	2,830	--	clear, odor
	07/08/99	1.9	6.87	22.1	2,950	2.79	clear
	01/27/00	--	6.87	19.2	2,960	--	clear, odor
	07/18/00	0.8	6.95	22.6	2,910	6.70	clear, odor
	02/18/01	1.2	6.91	20.3	2,910	--	clear
	08/21/01	1.2	6.82	22.3	2,730	--	clear
	02/28/02	1.6	6.96	20.3	2,900	--	clear
	08/01/02	1.4	6.95	25.6	2,880	2.61	clear
	02/12/03	1.5	6.91	22.5	2,860	--	clear
	08/05/03	1.4	6.92	26.4	2,800	6.73	clear
MW-14	11/12/96	--	7.07	19.9	--	--	mostly clear, slight silt
	02/04/97	3.0	7.06	15.3	3,600	70.1/92	clear initially, red silty, no odor
	05/10/97	2.0	7.04	21.2	3,390	16.2	slight red sand/silt
	08/07/97	1.0	7.09	20.4	3,340	2.8	clear
	10/08/97	1.5	6.74	20.7	3,170	--	clear
	01/23/98	0.7	6.97	17.5	3,150	--	clear
	04/17/98	1.2	7.08	21.1	3,180	0.79	clear
	07/17/98	0.6	6.94	21.8	3,520	2.25	clear
	01/27/99	--	6.92	19.9	3,260	--	clear
	07/08/99	1.3	6.96	20.9	3,460	0.87	clear
	01/27/00	--	6.96	19.5	3,420	--	clear
	07/18/00	0.2/0.6	7.00	20.9	3,330	1.65	clear
	02/18/01	0.9	6.98	20.3	3,350	--	clear
	08/21/01	3.5	7.10	22.3	2,690	--	clear
	02/28/02	2.2	7.03	21.5	3,340	--	clear
	08/01/02	1.4	7.03	24.2	3,330	1.32	clear
	02/12/03	1.1	6.96	22.4	3,360	--	clear
	08/05/03	0.8	6.96	23.6	3,280	2.72	clear
MW-15	11/12/96	--	7.21	24.6	--	--	clear
	02/04/97	8.0	6.90	18.3	3,200	34.5/133	fine red silt, no odor
	05/10/97	--	7.28	20.0	3,230	63.1	silty red sand

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
	08/07/97	7.4	7.13	20.5	3,160	159	red silt
	10/08/97	7.4	7.26	21.0	2,900	--	red sand/ fine silt
	01/23/98	5.2	7.24	18.8	2,930	--	turbid
	04/16/98	4.9	7.13	19.4	2,940	5.69	clear
	07/17/98	5.8/5.0	7.04	22.1	3,210	11.05	clear
	01/26/99	4.5	7.08	19.4	2,830	--	clear
	07/08/99	6.1	7.08	20.2	2,840	11.34	clear
	01/27/00	--	7.11	18.9	2,850	--	clear
	07/17/00	5.6	7.07	20.6	2,750	5.62	clear
	02/17/01	5.4	7.13	19.9	2,750	--	clear
	08/21/01	5.6	7.06	20.6	2,600	--	clear
	02/28/02	4.9	7.19	21.4	2,770	--	clear
	08/01/02	5.0	7.20	23.1	2,750	1.74	clear
	02/12/03	4.7	7.13	21.9	2,730	--	clear
	08/05/03	5.7	7.14	23.6	2,650	4.76	clear
MW-16	11/12/96	--	6.7	22.7	--	--	mostly clear, slight red silt
	02/04/97	4.0	6.49	17.2	4,900	139/830	fine red silt, no odor
	05/10/97	1.4	6.91	20.1	4,800	203	red sand/silt
	08/06/97	3.3	6.87	21.3	4,540	670	very silty, red
	10/08/97	3.3	6.88	21.3	4,190	--	red silty
	01/23/98	1.9	6.84	18.6	3,940	--	slightly turbid
	04/16/98	1.4/1.0	6.88	20.8	3,990	1.27	clear
	07/16/98	2.2	6.81	21.2	4,380	0.43	clear
	01/26/99	1.3	6.82	19.5	3,980	--	clear
	07/08/99	1.6/1.0	6.84	20.7	4,520	0.80	clear, no odor
	01/27/00	--	6.80	19.3	4,540	--	clear
	07/17/00	0.9	6.83	20.7	4,520	2.12	clear
	02/17/01	2.0	6.85	20.0	4,230	--	clear
	08/21/01	1.1	6.73	20.6	4,030	--	clear
	02/28/02	1.6	6.89	21.6	4,090	--	clear
	08/01/02	1.4	6.90	23.2	4,300	3.71	clear
	02/12/03	0.8	6.85	22.2	4,350	--	clear
	08/05/03	1.6	6.87	23.1	4,110	0.92	clear
SVE-1A	01/26/00	--	7.07	18.2	2,800	--	turbid, odor
	07/18/00	0.0	7.09	21.3	2,890	--	turbid, odor
	02/18/01	--	--	--	--	--	turbid, odor, insufficient h2o for parameters
	08/21/01	1.3	7.09	21.4	2420.0	--	gray/black, strong odor, bailed dry @ 0.75 gallons
	03/01/02	1.3	7.25	21.9	2820.0	--	red, turbid, odor
	08/01/02	--	--	--	--	--	turbid, odor, insufficient h2o for parameters
	02/12/03	0.3	7.10	22.3	2,700	--	turbid
	08/05/03	0.8	7.08	23.4	2,600	9.28	clear

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)														
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	(2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride	
NMWQCC Standard																				
MW-1	11/15/94	12 ^a	100 ^a	10 ^a	110 ^a	na	na	<2.0 ^a	690 ^a	6.7 ^a	2.2 ^a	2.8 ^a	420 ^a	na	16 ^a	<2.0 ^a	28 ^a	<2.0 ^a	<2.0 ^a	
	09/14/95	13	90	8	110	2000	400	<10	<5	730	13	9	na	170	1800	19	57	24	<10	
	11/12/96	9	66	<5	39	630	100	<10	<5	480	9	<5	na	88	1500	12	<5	20	<10	
	02/04/97	13	94	8	80	790	300	<10	<5	480	10	<5	<5	89 ^b	1700	9	<5	29	11	
	05/10/97	10	75	6	45	470	<100	<10	<5	470	9	<5	<5	<50	1000	8	9	20	<10	
	08/07/97	<50	<50	<50	<50	1100	1100	<50	<50	590	<50	<50	<50	200	1200	<50	<50	<50	<100	
	10/09/97	<50	132	<50	97	1660	<1000	<100	<50	597	<50	<50	<50	221 ^b	1650	<50	<50	<50	<100	
	01/23/98	11	82	7	85	2300	93	<10	<5	530	<5	<5	<5	230	2000	8	<5	24	<10	
	04/17/98	11	84	7	85	2100	52	<10	<5	480	8	<5	<5	360	1600	6	<5	24	<10	
	04/17/98	14	93	8	96	2400	100	11	<5	460	11	<5	<5	230	2100	8	<5	30	<10	
	07/17/98	15	93	8	97	<2000	98	<10	<5	820	8	12	<5	330	1800	14	93	21	<10	
	01/27/99	15	58	9	93	330	120	4	<1	460	8	4	3	310	2100	10	18	26	<2	
	08/21/01	12.8	62.7	6.5	92.8	198	71.3	3.25	<1	791	6.89	20	4.1	133	1200	28.1	147	18.8	2.65	
	03/01/02	<50.0	51.4	<50.0	50.2	<500	<250	<50.0	<50.0	544	<50.0	<50.0	<50.0	<250	1750	<50.0	<50.0	<50.0	<50.0	
	MW-3	08/01/02	12	49	<10	81	<1300	<2500	<10	<10	470	<10	12	<10	84	1900	20	42	24	<20
02/12/03		14	41	<10	84	340	<500	<20	<10	360	<10	<10	<10	52	2100	11	14	26	<20	
08/05/03		15	38	<10	94	270	<100	<20	<10	440	<10	<10	<10	62	2100	10	25	26	<20	
11/16/94		5	<0.5	<0.5	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-4		12/01/94	<0.5	<0.5	<0.5	<0.5	na	na	<0.2	7.6	0.9	<0.2	4.7	<0.2	<2.0	na	0.5	<0.2	<0.2	<0.2
		09/12/95	<1	<5	<5	<5	<100	<100	<10	6	<5	<5	<5	na	<5	<50	<5	<5	<5	<10
		11/12/96	<5	<5	<5	<5	<100	<100	<10	6	<5	<5	<5	na	<5	<50	<5	<5	<5	<10
		02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<5	100	<5	<5	<5	<10
		05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10
		08/06/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	5.4	<5	<5	<50	<5	<5	<5	<10
	10/08/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<10	
	01/23/98	<5	<5	<5	<5	<100	<20	<10	5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	
	07/16/98	<5	<5	<5	<5	<100	<20	<10	5	<5	<5	5	<5	<5	<10	<5	<5	<5	<10	
	01/26/99	<1	<1	<1	<1	<20	<20	<2	4	<1	<1	4	<1	<2	<10	<1	<1	<1	<2	
	07/08/99	<1	<1	<1	<1	<20	<20	<2	4	1	<1	4	<1	<2	<10	<1	<1	<1	<2	

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

		BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NINMWOCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
MW-5	01/27/00	<1	<1	<1	<1	<20	<20	<2	4	1	<1	4	<1	<2	<10	<1	<1	<1	<2
	07/17/00	<1	<1	<1	<1	<20	<20	<2	4	1	<1	3	<1	<2	<10	<1	<1	<1	<2
	02/17/01	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	2.79	<1.00	<1.00	3.62	<1.00	<5.00	<5.00	<1.00	<1.00	<1.00	<1.00
	08/21/01	<1	<1	<1	<3	<10	<10	<1	2.3	<1	<1	3.6	<1	<5	<5	<1	<1	<1	<1
	02/28/02	<1	<1	<1	<2	<10	<5	<1	2.00	<1	<1	2.92	<1	<5	<5	<1	<1	<1	<1
	08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<50	<1.0	2.1	1.8	<1.0	3.5	<1.0	<3.0	<15	<1.0	<1.0	<1.0	<2.0
	02/12/03	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	<1.0	<1.0	2.3	<1.0	<3.0	<15	<1.0	<1.0	<1.0	<2.0
	08/05/03	<1.0	<1.0	<1.0	<1.0	<10	<10	<2.0	<1.0	<1.0	<1.0	1.9	<1.0	<3.0	<10	<1.0	<1.0	<1.0	<2.0
Dup (BS-99)	12/01/94	20	19	8.3	26	na	8.9	<0.2	18	1.1	<0.2	12	43	na	na	0.8	<0.2	3.2	<0.2
	09/12/95	12	24	<5	24	1000	100	<5	200	7	<5	na	190	520	<5	<5	<5	67	<10
	11/12/96	20	44	18	44	<100	<100	31	<5	150	<5	<5	na	5	300	<5	<5	<5	11
	02/08/97	31	53	12	83	56	<100	56	<5	160	<5	5.6	140	36 ^b	280	<5	<5	120	16
	05/10/97	24	35	9	38	<100	<100	22	<5	140	<5	<5	120	<50	210	<5	<5	86	<10
	05/10/97	23	38	9	38	<100	<100	22	<5	130	<5	<5	111	<50	180	<5	<5	82	<10
	08/07/97	22	9	<5	15	<100	<100	11	<5	47	<5	<5	53	7	50	<5	<5	35	<10
	10/09/97	19	15	7	24	<100	<100	<10	<5	96	<5	<5	103	10 ^b	89	<5	<5	71	<10
	10/09/97	18	14	7	25	<100	<100	<10	<5	102	<5	<5	111	10 ^b	98	<5	<5	69	<10
	01/24/98	23	18	9	33	<100	<10	<10	<5	120	<5	6	140	<5	130	<5	<5	75	<10
	01/24/98	25	19	9	34	<100	<20	<10	<5	130	<5	7	150	<5	120	<5	<5	77	<10
	04/17/98	16	9	<5	14	<100	<20	<10	<5	83	<5	<5	91	<5	18	<5	<5	67	<10
	07/17/98	21	10	5	17	<100	<20	16	<5	110	<5	6	100	<5	47	<5	<5	91	<10
	01/27/99	22	9	7	19	<20	<20	7	<1	84	1	5	85	<2	17	4	3	100	<2
	01/27/99	22	9	7	19	<20	<20	5	<1	81	1	5	86	<2	19	3	2	96	<2
	07/09/99	22	11	6	15	<20	<20	5	<1	100	2	4	84	<2	22	3	3	100	<2
Dup (MW-17)	01/27/00	22	8	7	16	<20	<20	3	<1	68	1	3	60	<2	10	3	85	<2	<2
Dup (MW-19)	01/27/00	22	8	7	15	<20	<20	3	<1	67	1	3	60	<2	10	3	84	<2	<2
	07/18/00	23	8	7	15	<20	<20	4	<1	59	1	3	54	<2	<10	4	3	82	<2
	02/18/01	19.4	7.63	7.77	16.97	11.7	<10.00	4.95	<1.00	59.8	1.24	3.34	61.9	<5.00	14.6	3.38	3.31	65.6	<1.00
	02/18/01	19.5	7.73	7.84	17.15	<10.00	<10.00	4.34	<1.00	57.7	1.23	3.06	62.0	<5.00	13.9	2.93	3.11	63.8	<1.00
Dup (MW-19)	08/21/01	19.8	7.18	6.15	14.35	19	<10	8.62	<1	108	1.5	4.37	106	<5	11.2	1.95	4.49	94.5	1.12
	03/01/02	14.3	3.72	4.58	8.68	<10.0	<5.00	4.10	<1.00	119	1.98	4.29	87.6	<5.00	6.19	1.04	3.23	104	3.26

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
		14.1	3.54	4.45	8.67	<10.0	<5.00	4.09	<1.00	124	1.97	4.15	86.9	<5.00	6.63	1.10	3.37	104	2.24
	03/01/02					<50	<100	5.3	<2.0	130	2.2	8.3	110	<6.0	<30	3.3	7.3	110	<4.0
	08/01/02	21	6.3	4.8	12	<50	<100	5.9	<2.0	150	2.4	5.6	100	<6.0	<30	5.0	4.9	160	<4.0
	02/12/03	18	3.7	3.8	9.4	<50	<100	5.8	<2.0	140	2.3	5.6	100	<6.0	<30	3.7	4.6	150	<4.0
Dup (MW-19)	02/12/03	17	3.7	3.7	9.0	<50	<100	5.8	<2.0	140	2.3	5.6	100	<6.0	<30	3.7	4.6	150	<4.0
	08/05/03	22	<5	<5	5.4	<50	<50	<10	<5.0	220	<5.0	6.3	160	<15	<50	<5.0	<5.0	180	<10
MW-6	11/30/94	1.8	<0.5	<0.5	0.5	na	na	0.5	<0.2	13	<0.2	2.9	6.8	<2.0	na	0.4	<0.2	15	<0.2
	09/12/95	2	<5	<5	<5	<100	<100	<10	<5	17	<5	<5	na	<5	<50	<5	<5	21	<10
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	na	<5	<50	<5	<5	15	<10
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	11	<5	<5	6	<50	<50	<5	<5	18	<10
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	10	<5	<5	<5	<50	<50	<5	<5	14	<10
	08/07/97	<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	7	<5	<50	<5	<5	16	<10
	10/09/97	<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	7	<5	<50	<5	<5	16	<10
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	14	<5	<5	7	<5	<10	<5	<5	15	<10
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	13	<5	<5	8	<5	<10	<5	<5	17	<10
	07/16/98	<5	<5	<5	<5	<100	<20	<10	<5	12	<5	<5	7	<5	<10	<5	<5	14	<10
	01/27/99	1	<1	<1	<1	<20	<20	<2	<1	11	<1	3	8	<2	<10	<1	<1	16	<2
	07/08/99	2	<1	<1	<1	<20	<20	<2	<1	12	<1	2	9	<2	<10	<1	<1	18	<2
	01/27/00	2	<1	<1	<1	<20	<20	<2	<1	14	<1	3	9	<2	<10	<1	<1	19	<2
	07/18/00	2	<1	<1	<1	<20	<20	<2	<1	14	<1	3	10	<2	<10	<1	<1	19	<2
	02/18/01	1.60	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	12.1	<1.00	2.09	9.49	<5.00	<5.00	<1.00	<1.00	16.4	<1.00
	08/21/01	1.5	<1	<1	<3	<10	<10	<1	<1	10	<1	2.02	8.28	<5	<5	<1	<1	15.5	<1
02/28/02	1.6	<1.00	<1.00	<2.00	<10.0	<5.00	<1.00	<1.00	11.8	<1.00	1.88	8.60	<5.00	<5.00	<1.00	<1.00	16.4	<1.00	
MW-7	08/01/02	1.3	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	11	<1.0	2.5	8.4	<3.0	<15	<1.0	<1.0	17	<2.0
	02/12/03	1.1	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	8.5	<1.0	1.4	6.2	<3.0	<15	<1.0	<1.0	13	<2.0
	08/05/03	<1.0	<1.0	<1.0	<1.0	<10	<10	<2.0	<1.0	8.2	<1.0	1.2	6.0	<3.0	<10	<1.0	<1.0	13	<2.0
	11/22/94	7	<0.5	<0.5	<0.5	na	na	<0.2	<0.2	23	0.3	2.3	7.3	<2.0	na	0.4	1.6	14	0.3
	09/12/95	6	<5	<5	<5	<100	<100	<10	<5	22	<5	<5	na	<5	<50	<5	<5	13	<10
11/12/96	9	<5	<5	<5	<100	<100	<10	<5	22	24	<5	na	<5	<50	<5	<5	18	<10	
02/04/97	8	<5	<5	<5	<100	<100	<10	<5	18	<5	<5	7	<50	<50	<5	<5	15	<10	
05/10/97	6	<5	<5	<5	<100	<100	<10	<5	16	<5	<5	<5	<50	<50	<5	<5	13	<10	
08/07/97	9	<5	<5	<5	<100	<100	<10	<5	22	<5	<5	<5	8	<5	<50	<5	<5	17	<10

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride	
																			10
NMWQCC Standard		<5	<5	<5	<5	<100	<10	<5	20	<5	<5	6	<5	<50	<5	<5	<10		
	10/09/97																		
	01/23/98	6	<5	<5	<5	<100	<10	<5	21	<5	<5	6	<5	<10	<5	<5	13	<10	
	04/17/98	6	<5	<5	<5	<100	<10	<5	20	<5	<5	8	<5	<10	<5	<5	14	<10	
	07/16/98	7	<5	<5	<5	<100	<10	<5	19	<5	<5	7	<5	<10	<5	<5	12	<10	
	01/27/99	7	<1	<1	<1	<20	<2	1	19	<1	3	10	<2	<10	<1	<1	12	<2	
	07/08/99	7	<1	<1	<1	<20	<2	1	20	<1	2	10	<2	<10	<1	<1	12	<2	
	01/27/00	8	<1	<1	<1	<20	<2	1	24	<1	2	13	<2	<10	<1	<1	12	<2	
	07/18/00	6	<1	<1	<1	<20	<2	1	19	<1	2	11	<2	<10	<1	<1	9	<2	
	02/18/01	7.90	<1.00	<1.00	<1.00	<10.00	<1.00	1.36	24.3	<1.00	2.24	16.0	<5.00	<5.00	<1.00	<1.00	12.1	<1.00	
	08/21/01	4.25	<1	<1	<3	<10	<1	<1	21.6	<1	1.79	15	<5	<5	<1	<1	11.2	<1	
	02/28/02	<1.00	<1.00	<1.00	<2.00	<10.0	<5.00	1.27	34.3	<1.00	2.37	24.8	<5.00	<5.00	<1.00	<1.00	15.3	<1.00	
	08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<50	1.7	30	<1.0	2.9	24	<3.0	<15	<1.0	<1.0	15	<2.0	
	02/12/03	<1.0	<1.0	<1.0	<1.0	<25	<50	<1.0	24	<1.0	2.0	20	<3.0	<15	<1.0	<1.0	11	<2.0	
	08/05/03	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<1.0	36	<1.0	2.0	34	<3.0	<10	<1.0	<1.0	15	<2.0	
	MW-8	11/30/94	12	<0.5	<0.5	<0.5	na	0.5	<0.2	71	0.9	1.3	18	<2.0	na	<0.2	<0.2	17	0.2
		09/13/95	18	<5	<5	<5	<100	<10	<5	92	<5	<5	na	<5	<50	<5	<5	45	<10
11/12/96		19	<5	<5	<5	<100	<10	<5	86	<5	6	na	<5	<50	<5	<5	59	<10	
02/06/97		24	<5	<5	<5	<100	<10	<5	80	<5	<5	28	5.2 ^b	<50	<5	<5	52	<10	
05/10/97		19	42	<5	<5	<100	25	<5	74	<5	<5	120	<50	130	<5	<5	44	<10	
08/07/97		21	<5	<5	<5	<100	25	<5	86	<5	7.4	30	<5	<50	<5	<5			

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NNMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
Dup (MW-17)	07/18/00	20	<1	<1	<1	<20	<20	<2	<1	100	2	5	44	<2	<10	<1	<1	59	<2
	02/18/01	17.8	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	89.2	1.49	4.52	42.0	<5.00	<5.00	<1.00	<1.00	52.8	<1.00
	08/21/01	17.7	<1	<1	<3	<10	<10	<1	<1	97.9	1.59	4.74	42.6	<5	<5	<1	<1	54.1	1.13
	08/21/01	17.8	<1	<1	<3	<10	<10	<1	<1	100	1.42	4.47	45.8	<5	<5	<1	<1	52.9	1.11
Dup (MW-17)	02/28/02	22.1	<1.00	<1.00	<2.00	<10.0	<5.00	<1.00	<1.00	108	2.33	4.50	47.1	<5.00	<5.00	<1.00	<1.00	56.6	2.92
	08/01/02	25	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	120	1.7	6.1	51	<3.0	<15	<1.0	<1.0	68	<2.0
	08/01/02	24	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	130	1.6	6.0	48	<3.0	<15	<1.0	<1.0	59	<2.0
	02/12/03	23	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	95	1.7	5.0	49	<3.0	<15	<1.0	<1.0	52	<2.0
Dup (MW-18)	08/05/03	19	<2.0	<2.0	<2.0	<20	<20	<4.0	<2.0	120	<2	5.0	62	<6.0	<20	<2.0	<2.0	61	<4.0
	08/05/03	22	<2.0	<2.0	<2.0	<20	<20	<4.0	<2.0	150	2.0	6.4	77	<6.0	<20	<2.0	<2.0	76	<4.0
MW-14	09/13/95	1	<5	<5	<5	<100	<100	<10	<5	24	<10	<5	na	<5	<50	<5	<5	11	<10
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	25	<10	<5	na	<5	<50	<5	<5	13	<10
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	21	<5	<5	<5	<50	<50	<5	<5	13	<10
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	22	<5	<5	<5	<50	<50	<5	<5	12	<10
	08/07/97	<5	<5	<5	<5	<100	<100	<10	<5	27	<5	<5	<5	<5	<50	<5	<5	14	<10
	10/09/97	<5	<5	<5	<5	<100	<100	<10	<5	27	<5	<5	<5	6 ^b	<50	<5	<5	15	<10
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	31	<5	<5	5	<5	<10	<5	<5	13	<10
	04/17/98	<5	<5	<5	<5	<100	<20	<10	<5	28	<5	<5	<5	<5	<10	<5	<5	14	<10
	07/17/98	<5	<5	<5	<5	<100	<20	<10	<5	26	<5	<5	<5	<5	<10	<5	<5	14	<10
	01/27/99	<1	<1	<1	<1	<20	<20	<2	<1	27	<1	2	5	<2	<10	1	<1	14	<2
	07/09/99	<1	<1	<1	<1	<20	<20	<2	<1	29	<1	2	5	<2	<10	1	<1	16	<2
	01/27/00	<1	<1	<1	<1	<20	<20	<2	<1	29	<1	2	5	<2	<10	1	<1	15	<2
	07/18/00	<1	<1	<1	<1	<20	<20	<2	<1	32	<1	2	6	<2	<10	1	<1	16	<2
	02/18/01	<1.00	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	31.50	<1.00	1.78	5.95	<5.00	<5.00	1.18	<1.00	15.4	<1.00
	08/21/01	<1	<1	<1	<3	<10	<10	<1	<1	33.7	<1	1.61	5.93	<5	<5	<1	<1	15.7	<1
	02/28/02	<1.00	<1.00	<1.00	<2.00	<10.0	<5.00	<1.00	<1.00	37.1	<1.00	1.52	6.97	<5.00	<5.00	<1.00	<1.00	16.5	1.06
08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<15	<1.0	<1.0	37	<1.0	2.4	7.6	<3.0	<15	1.7	<1.0	18	<2.0	
02/12/03	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	26	<1.0	1.2	5.4	<3.0	<15	1.1	<1.0	12	<2.0	
08/05/03	<1.0	<1.0	<1.0	<1.0	<10	<10	<2.0	<1.0	33	<1.0	1.2	6.2	<3.0	<10	<1.0	<1.0	14	<2.0	
MW-15	09/14/95	<1	<5	<5	<5	<100	<100	<10	<5	<5	<5	5	na	<5	<50	<5	<5	<5	<10

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	none	20	60	100
NMWQCC Standard	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	5	na	<5	<50	<5	<5	<5	<10
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10
	08/07/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<10
	10/08/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	6 ^b	<50	<5	<5	<5	<10
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	04/16/98	<5	13	<5	<5	<100	<20	<10	<5	<5	<5	5	<5	<5	<10	<5	<5	<5	<10
	07/17/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	01/26/99	<1	<1	<1	<1	<20	<20	<2	2	3	<1	5	<1	<2	<10	<1	1	<1	<2
	07/08/99	<1	<1	<1	<1	<20	<20	<2	2	4	<1	4	<1	<2	<10	<1	2	<1	<2
	01/27/00	<1	<1	<1	<1	<20	<20	<2	2	4	<1	5	<1	<2	<10	<1	2	<1	<2
	07/17/00	<1	<1	<1	<1	<20	<20	<2	2	3	<1	4	<1	<2	<10	<1	2	<1	<2
	02/17/01	<1.00	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	1.77	3.54	<1.00	3.97	<1.00	<5.00	<5.00	<1.00	1.81	<1.00	<1.00
08/21/01	<1	<1	<1	<3	<10	<5	<1	1.39	3.18	<1	3.59	<1	<5	<5	<1	1.72	<1	<1	
02/28/02	<1.00	<1.00	<1.00	<2.00	<10.0	<5.00	<1.00	1.68	3.56	<1.00	3.66	<1.00	<5.00	<5.00	<1.00	1.87	<1.00	<1.00	
08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	1.9	3.6	<1.0	3.8	<1.0	<3.0	<15	<1.0	2.1	<1.0	<2.0	
02/12/03	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	1.4	2.5	<1.0	3.1	<1.0	<3.0	<15	<1.0	1.6	<1.0	<2.0	
08/05/03	<1.0	<1.0	<1.0	<1.0	<10	<10	<2.0	1.0	2.5	<1.0	2.4	<1.0	<3.0	<10	<1.0	2.2	<1.0	<2.0	
MW-16	09/14/95	<1	<5	<5	<5	<100	<100	<10	<5	6	<5	<5	na	<5	<50	6	<5	<5	<10
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	6	<5	<5	na	<5	<50	21	<5	<5	<10
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	17	<5	<5	<10
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10
	08/06/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	6	<50	14	<5	<5	<10
	10/08/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	7 ^b	<50	15	<5	<5	<10
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	13	<5	<5	<10
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	07/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	01/26/99	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	16	<1	1	<2
	07/08/99	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	14	<1	<1	<2
	01/27/00	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	14	<1	1	<2
	07/17/00	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	2	<1	<2	<10	13	<1	1	<2

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
	02/17/01	<1.00	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	2.43	<1.00	3.13	<1.00	<5.00	<5.00	10.5	<1.00	<1.00	<1.00
	08/21/01	<1	<1	<1	<3	<10	<10	<1	<1	2.03	<1	3.15	<1	<5	<5	8.22	<1	<1	<1
	02/28/02	<1	<1	<1	<2	<10	<5	<1	<1	2.33	<1	2.45	<1	<5	<5	6.53	<1	<1	<1
	08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	2.9	<1.0	2.7	<1.0	<3.0	<15	9.6	<1.0	1.2	<2.0
	02/12/03	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	1.8	<1.0	1.8	<1.0	<3.0	<15	10	<1.0	<1.0	<2.0
	08/05/03	<1.0	<1.0	<1.0	<1.0	<10	<10	<2.0	<1.0	1.7	<1.0	1.8	<1.0	<3.0	<10	8.4	<1.0	<1.0	<2.0
	SVE-1A	01/26/00	59	16	14	57	<20	<20	11	<1	240	2	8	54	5	240	8	44	59
07/18/00		59	16	15	59	<20	<20	9	<1	230	3	8	62	3	480	3	33	57	<2
02/18/01		45.6	29.6	14.2	101.12	<50.0	<50.0	14.2	<5.00	466	5.45	15.8	101	<25.0	883	13.8	55.1	98.9	<5.00
08/21/01		51.9	31.4	16.2	92.6	<10	<10	13.3	<1	607	5.08	21.8	116	<5	610	7.65	62.5	133	3.6
03/01/02		47.7	41.5	16.0	89.2	<100	<50.0	<10.0	<10.0	334	<10.0	10.8	101	<50.0	842	<10.0	14.9	84.7	<10.0
08/01/02		60	57	17	110	<250	<500	<20	<10	480	<10	21	170	<30	1000	11	33	150	<20
02/12/03		55	78	20	120	<250	<500	<20	<10	370	<10	11	160	<30	1100	<10	19	130	<20
08/05/03		69	83	24	170	<100	<100	<20	<10	630	<10	16	240	<30	1500	<10	34	180	<20

NOTES:

(a) Sample analyzed at 10x dilution

(b) Constituent also detected in laboratory blank sample

na - Analysis for this constituent was not run on samples collected during this sample event

**Table 5. Summary of Groundwater Analyses - Additional Organics
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
MW-1	10/09/97	1,1,2,2-Tetrachloroethane	107	50
	01/23/98	1,2,4-Trimethylbenzene	36	5
	01/23/98	1,3,5-Trimethylbenzene	13	5
	01/23/98	2-Hexanone	25	10
	04/17/98	Naphthalene	11	5
	04/17/98	1,2,4-Trimethylbenzene	39	5
	04/17/98	1,3,5-Trimethylbenzene	13	5
	04/17/98	2-Hexanone	18	10
	04/17/98	Naphthalene	24	5
	04/17/98	1,2,4-Trimethylbenzene	40	5
Dup(MW-17)	04/17/98	1,3,5-Trimethylbenzene	14	5
	04/17/98	2-Hexanone	26	10
	07/17/98	Naphthalene	13	5
	07/17/98	1,2,4-Trimethylbenzene	32	5
	07/17/98	1,3,5-Trimethylbenzene	11	5
	07/17/98	2-Hexanone	18	10
	01/27/99	Carbon disulfide	1	1
	01/27/99	Isopropylbenzene	2	1
	01/27/99	n-Propylbenzene	3	1
	01/27/99	1,3,5-Trimethylbenzene	14	1
	01/27/99	1,2,4-Trimethylbenzene	38	1
	01/27/99	4-Isopropyltoluene	2	1
	01/27/99	1,2-Dichlorobenzene	1	1
	01/27/99	Naphthalene	14	1
	08/21/01	1,2,4-Trimethylbenzene	27.8	5
	08/21/01	1,2-Dichlorobenzene	1.02	1
	08/21/01	1,3,5-Trimethylbenzene	15.3	1
	08/21/01	n-Propylbenzene	1.12	1
	08/21/01	Naphthalene	11.2	2
	08/01/02	1,2,4-Trimethylbenzene	33	10
	08/01/02	1,3,5-Trimethylbenzene	16	10
	02/12/03	1,2,4-Trimethylbenzene	45	10
	02/12/03	1,3,5-Trimethylbenzene	15	10
	08/05/03	1,2,4-Trimethylbenzene	41	10
	08/05/03	1,3,5-Trimethylbenzene	18	10
MW-4	12/01/94	Bromodichloromethane	0.2	0.2
	02/12/03	Chlorobenzene	1.3	1
	08/05/03	Chlorobenzene	1.8	1
MW-5	12/01/94	1,2-Dichlorobenzene	0.5	0.2
	11/12/96	Bromodichloromethane	94	5
	01/24/98	Naphthalene	48	5
	01/24/98	1,2,4-Trimethylbenzene	17	5
	01/24/98	1,3,5-Trimethylbenzene	10	5
Dup(MW-17)	01/24/98	Naphthalene	40	5
	01/24/98	1,2,4-Trimethylbenzene	17	5

Table 5. Summary of Groundwater Analyses - Additional Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
	01/24/98	1,3,5-Trimethylbenzene	10	5
	04/17/98	Naphthalene	5	5
	04/17/98	1,2,4-Trimethylbenzene	6	5
	07/17/98	Naphthalene	7	5
	07/17/98	1,2,4-Trimethylbenzene	6	5
	01/27/99	trans-1,2-Dichloroethene	1	1
	01/27/99	1,3,5-Trimethylbenzene	6	1
	01/27/99	1,2,4-Trimethylbenzene	9	1
	01/27/99	4-Isopropyltoluene	1	1
	01/27/99	1,2-Dichlorobenzene	1	1
	01/27/99	Naphthalene	9	1
Dup(MW-17)	01/27/99	1,3,5-Trimethylbenzene	7	1
Dup(MW-17)	01/27/99	1,2,4-Trimethylbenzene	10	1
Dup(MW-17)	01/27/99	4-Isopropyltoluene	1	1
Dup(MW-17)	01/27/99	1,2-Dichlorobenzene	1	1
Dup(MW-17)	01/27/99	Naphthalene	9	1
	07/09/99	1,3,5-Trimethylbenzene	6	1
	07/09/99	1,2,4-Trimethylbenzene	9	1
	07/09/99	4-Isopropyltoluene	1	1
	07/09/99	Naphthalene	9	1
Dup(MW-17)	01/27/00	1,3,5-Trimethylbenzene	8	1
Dup(MW-17)	01/27/00	1,2,4-Trimethylbenzene	13	1
Dup(MW-17)	01/27/00	4-Isopropyltoluene	2	1
Dup(MW-17)	01/27/00	Naphthalene	12	1
	01/27/00	1,3,5-Trimethylbenzene	8	1
	01/27/00	1,2,4-Trimethylbenzene	13	1
	01/27/00	4-Isopropyltoluene	2	1
	01/27/00	Naphthalene	13	1
	01/27/00	1,3,5-Trimethylbenzene	9	1
	01/27/00	1,2,4-Trimethylbenzene	15	1
	01/27/00	4-Isopropyltoluene	2	1
	01/27/00	Naphthalene	11	1
Dup(MW-19)	02/18/01	1,2-Dichlorobenzene	1.04	1.00
Dup(MW-19)	02/18/01	p-Isopropyltoluene	2.10	2.00
Dup(MW-19)	02/18/01	n-Propylbenzene	1.12	1.00
Dup(MW-19)	02/18/01	1,2,4-Trimethylbenzene	16.6	1.00
Dup(MW-19)	02/18/01	1,3,5-Trimethylbenzene	9.35	1.00
	02/18/01	1,2-Dichlorobenzene	1.04	1.00
	02/18/01	p-Isopropyltoluene	2.18	2.00
	02/18/01	Naphthalene	14.4	2.00
	02/18/01	n-Propylbenzene	1.12	1.00
	02/18/01	1,2,4-Trimethylbenzene	16.7	1.00
	02/18/01	1,3,5-Trimethylbenzene	9.23	1.00
	08/21/01	1,2,4-Trimethylbenzene	11.8	1
	08/21/01	1,3,5-Trimethylbenzene	7.71	1

Table 5. Summary of Groundwater Analyses - Additional Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
	08/21/01	Napthalene	9.4	1
	08/21/01	trans-1,2-Dichloroethene	1.15	1
Dup(MW-19)	03/01/02	Carbon disulfide	2.1	1
Dup(MW-19)	03/01/02	trans-1,2-Dichloroethene	1.14	1
Dup(MW-19)	03/01/02	1,3,5-Trimethylbenzene	8.06	1
Dup(MW-19)	03/01/02	1,2,4-Trimethylbenzene	9.37	1
Dup(MW-19)	03/01/02	p-Isopropyltoluene	3.50	1
Dup(MW-19)	03/01/02	Napthalene	8.39	1
	03/01/02	Carbon disulfide	1.19	1
	03/01/02	trans-1,2-Dichloroethene	1.42	1
	03/01/02	1,3,5-Trimethylbenzene	7.79	1
	03/01/02	1,2,4-Trimethylbenzene	8.96	1
	03/01/02	p-Isopropyltoluene	3.36	1
	03/01/02	Napthalene	10.5	1
	08/01/02	1,2,4-Trimethylbenzene	9.2	5
	08/01/02	1,3,5-Trimethylbenzene	2.2	5
	08/01/02	Napthalene	7	4
	08/01/02	4-Isopropyltoluene	2.5	2
	08/01/02	n-Propylbenzene	2.2	2
	08/01/02	trans-1,2-Dichloroethene	2.4	2
Dup(MW-19)	02/12/03	1,2,4-Trimethylbenzene	7.1	2
Dup(MW-19)	02/12/03	1,3,5-Trimethylbenzene	7.7	2
Dup(MW-19)	02/12/03	Napthalene	6.6	4
Dup(MW-19)	02/12/03	4-Isopropyltoluene	2.7	2
	02/12/03	1,2,4-Trimethylbenzene	7.6	2
	02/12/03	1,3,5-Trimethylbenzene	8.0	2
	02/12/03	Napthalene	7.4	4
	02/12/03	4-Isopropyltoluene	2.7	2
	08/05/03	1,2,4-Trimethylbenzene	8	5
	08/05/03	1,3,5-Trimethylbenzene	8.3	5
MW-6	11/30/94	1,2-Dichlorobenzene	0.3	0.2
MW-8	11/30/94	1,2-Dichlorobenzene	0.4	0.2
	01/24/98	P-Isopropyltoluene	10	5
	01/27/99	Isopropylbenzene	2	1
	01/27/99	4-Isopropyltoluene	2	1
	01/27/99	1,2-Dichlorobenzene	1	1
Dup(MW-17)	07/09/99	1,2-Dichlorobenzene	1	1
	07/09/99	1,2-Dichlorobenzene	1	1
	01/27/00	1,2-Dichlorobenzene	1	1
	07/18/00	1,2-Dichlorobenzene	1	1
Dup(MW-17)	07/18/00	1,2-Dichlorobenzene	1	1
	02/18/01	1,2-Dichlorobenzene	1.14	1.00
	08/21/01	1,2-Dichlorobenzene	1.08	1
	02/28/02	1,2-Dichlorobenzene	1.33	1
	02/28/02	trans 1,2 Dichloroethene	1.01	1

Table 5. Summary of Groundwater Analyses - Additional Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
	08/01/02	1,2-Dichlorobenzene	1.3	1
	08/01/02	Isopropylbenzene	1.0	1
	08/01/02	trans-1,2-Dichloroethene	1.7	1
Dup(MW-18)	08/01/02	1,2-Dichlorobenzene	1.3	1
	08/01/02	Isopropylbenzene	1.1	1
	08/01/02	trans-1,2-Dichloroethene	1.5	1
	02/12/03	1,2-Dichlorobenzene	1.2	1
SVE-1A	01/26/00	Isopropylbenzene	2	1
	01/26/00	n-Propylbenzene	3	1
	01/26/00	1,3,5-Trimethylbenzene	19	1
	01/26/00	1,2,4-Trimethylbenzene	30	1
	01/26/00	4-Isopropyltoluene	2	1
	01/26/00	Naphthalene	14	1
	07/18/00	Isopropylbenzene	2	1
	07/18/00	n-Propylbenzene	3	1
	07/18/00	1,3,5-Trimethylbenzene	21	1
	07/18/00	1,2,4-Trimethylbenzene	33	1
	07/18/00	4-Isopropyltoluene	2	1
	07/18/00	Naphthalene	15	1
	02/18/01	1,2,4-Trimethylbenzene	44.5	5.00
	02/18/01	1,3,5-Trimethylbenzene	25.2	5.00
	08/21/01	1,1,2-Trichloroethane	1.48	1
	08/21/01	1,2,4-Trimethylbenzene	47.2	5
	08/21/01	1,3,5-Trimethylbenzene	23.8	1
	08/21/01	Isopropylbenzene	2.44	2
	08/21/01	n-Propylbenzene	3.12	1
	08/21/01	Naphthalene	16.2	2
	08/21/01	trans-1,2-Dichloroethene	1.06	1
	03/01/02	1,3,5-Trimethylbenzene	27	1
	03/01/02	1,2,4-Trimethylbenzene	57	1
	03/01/02	n-Propylbenzene	12	1
	02/12/03	1,2,4-Trimethylbenzene	73	10
	08/05/03	1,3,5-Trimethylbenzene	40	10
	08/05/03	1,2,4-Trimethylbenzene	75	10

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)											
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc	
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.05	0.002	0.2	0.05	0.05	10
	MW-1	11/15/94	2900	190	< 5	< 0.06	485	59.1	175	216	1610	0.11	24	< 0.0005	< 0.01	< 0.01	0.325	< 0.002	< 0.0002	0.1	< 0.005	< 0.01	na
		09/14/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
		11/12/96	2370	165	< 50	na	na	na	na	na	na	0.13	22.9	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.05	< 0.04	< 0.01	na
		02/04/97	2460	172	< 5.0	na	na	na	na	na	na	0.12	20	< 0.01	< 0.01	< 0.01	0.25	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	na
												0.13	22	< 0.01	< 0.01	< 0.01	10	< 0.03	< 0.0002	0.05	< 0.04	< 0.01	< 0.03
		05/10/97	2840	162	< 5.0	< 0.05	na	na	na	na	na	0.15	22.5	< 0.01	< 0.01	< 0.01	0.21	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	< 0.03
	08/07/97	2910	150	< 5.0	5.4	na	na	na	na	na	0.11	27	< 0.01	< 0.01	< 0.01	0.21	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	0.46	
	10/09/97	2690	175	< 5.0	< 0.05	na	na	na	na	na	0.16	26	< 0.01	< 0.01	0.04	0.11	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	0.45	
	01/23/98	1890	160	9	0.15	na	na	na	na	na	0.2	27.2	< 0.005	< 0.01	< 0.01	0.54	< 0.05	< 0.0002	0.020	< 0.1	< 0.01	< 0.02	
04/17/98	2100	150	200	0.90	na	na	na	na	na	0.2	26.8	< 0.005	< 0.01	< 0.01	8.42	< 0.05	< 0.0002	0.018	< 0.1	< 0.01	< 0.02		
Dup (MW-17)	04/17/98	1800	150	7	1.29	na	na	na	na	na	0.1	24.9	< 0.005	< 0.01	< 0.01	8.92	< 0.05	< 0.0002	0.019	< 0.1	< 0.01	< 0.02	
	07/17/98	2200	156	9	< 0.1	na	na	na	na	na	0.15	32.2	< 0.005	< 0.01	< 0.01	15.1	< 0.05	< 0.0002	0.023	< 0.005	< 0.01	< 0.02	
	08/21/01	3000	157	< 1	0.103	na	na	na	na	na	0.152	10.9	na	na	na	4.93	na	< 0.0002	0.0201	na	na	na	
	08/01/02	5900	150	< 5.0	< 2.0	na	na	na	na	na	0.25	33	na	na	na	3.0	na	na	0.010	na	na	na	
	08/05/03	2100	180	0.73	< 0.2	na	na	na	na	na	0.17	27	na	na	na	8.1	na	na	na	0.012	na	na	
MW-4	12/01/94	2800	540	1000	20	332	5.9	153	353	273	0.007	0.025	< 0.0005	< 0.01	< 0.01	< 0.05	< 0.002	< 0.0002	0.024	0.02	< 0.01	na	
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
	11/12/96	2500	430	1000	na	na	na	na	na	na	< 0.03	0.03	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	na	
	02/04/97	2370	416	416	na	na	na	na	na	na	< 0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0002	< 0.01	< 0.04	< 0.01	< 0.03	
											< 0.03	0.03	< 0.01	< 0.01	< 0.01	0.57	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	< 0.03	
	05/10/97	2660	410	778	10.7	na	na	na	na	na	< 0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	< 0.03	
	08/06/97	2620	435	863	12.8	na	na	na	na	na	< 0.03	0.33	< 0.01	0.02	< 0.01	< 0.01	< 0.03	< 0.0002	< 0.01	0.08	< 0.01	0.25	
	10/08/97	2470	380	879	9.6	na	na	na	na	na	< 0.03	0.92	< 0.01	< 0.01	< 0.01	0.14	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	0.4	
	01/23/98	1920	300	581	< 0.05	na	na	na	na	na	< 0.1	0.017	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.188	< 0.1	< 0.01	< 0.02	
	04/16/98	1600	320	800	11.6	na	na	na	na	na	< 0.1	0.026	< 0.005	< 0.01	< 0.01	0.07	< 0.05	< 0.0002	0.201	< 0.1	< 0.01	0.03	
07/16/98	2300	301	900	14.1	na	na	na	na	na	0.011	0.020	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.154	0.018	< 0.01	< 0.02		
07/08/99	2200	320	710	14.0	na	na	na	na	na	0.010	0.0213	< 0.0020	< 0.0050	< 0.0020	< 0.010	< 0.025	< 0.00020	0.0381	0.020	< 0.0030	< 0.010		

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)							Metals (mg/L)													
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10
MW-5	07/17/00	2240	370	820	15.0	na	na	na	na	na	0.010	0.0206	na	na	na	0.030	na	<0.00020	0.0011	na	na	na
	08/21/01	2400	411	782	5.11	na	na	na	na	na	<0.05	0.0196	na	na	na	<0.05	na	<0.0002	<0.01	na	na	na
	08/01/02	2200	310	670	10	na	na	na	na	na	<0.010	0.023	na	na	na	<0.020	na	na	0.085	na	na	na
	08/05/03	2100	280	630	6.5	na	na	na	na	na	<0.020	0.042	na	na	na	<0.020	na	na	0.15	na	na	na
	12/01/94	2000	360	<5	<0.06	185	6.1	200	326	1080	0.036	17.3	<0.0005	<0.01	<0.01	0.097	<0.002	<0.0002	0.112	<0.005	<0.01	na
Dup (MW-17)	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2810	495	<25	na	na	na	na	na	na	0.06	25.9	<0.01	<0.01	<0.01	na	<0.03	<0.0002	0.43	<0.04	<0.01	na
	02/06/97	2300	4400	<5.0	na	na	na	na	na	na	0.04	21	<0.01	<0.01	<0.01	0.21	<0.03	<0.0002	0.02	<0.04	<0.01	na
	05/10/97	2340	380	<5.0	<0.05	na	na	na	na	na	0.12	22	<0.01	0.02	0.02	27	0.04	<0.0002	0.56	<0.04	<0.01	0.09
	08/07/97	1870	300	<5.0	0.09	na	na	na	na	na	0.05	22.2	<0.01	<0.01	<0.01	0.12	<0.03	<0.0002	0.01	<0.04	<0.01	<0.03
Dup (MW-17)	10/09/97	2090	320	<5.0	<0.05	na	na	na	na	na	<0.03	16	<0.01	<0.01	<0.01	0.08	<0.03	<0.0002	<0.01	<0.04	<0.01	0.24
	10/09/97	2100	340	<5.0	<0.05	na	na	na	na	na	<0.03	23	<0.01	<0.01	<0.01	0.02	<0.03	<0.0002	<0.01	<0.04	<0.01	0.23
	01/24/98	1640	300	4	<0.05	na	na	na	na	na	<0.03	16	<0.01	<0.01	<0.01	0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	0.23
	01/24/98	1880	300	4	<0.05	na	na	na	na	na	<0.05	15.5	<0.005	<0.01	<0.01	0.19	<0.05	<0.0002	0.017	<0.1	<0.01	<0.02
	04/17/98	1400	290	200	0.88	na	na	na	na	na	0.1	16.4	<0.005	<0.01	<0.01	0.19	<0.05	<0.0002	0.015	<0.1	<0.01	<0.02
MW-6	07/17/98	1800	281	3	<0.1	na	na	na	na	na	<0.1	14.4	<0.005	<0.01	<0.01	1.29	<0.05	<0.0002	0.022	<0.1	<0.01	0.03
	07/09/99	1800	260	<25	<0.01	na	na	na	na	na	0.020	13.7	<0.005	<0.01	<0.01	4.61	<0.05	<0.0002	0.018	<0.005	<0.01	<0.02
	07/18/00	1740	270	<3.0	<0.01	na	na	na	na	na	0.019	13.3	<0.0020	<0.0050	<0.0020	2.50	<0.025	<0.00020	0.0224	<0.010	<0.0030	<0.010
	08/21/01	1860	253	<1	0.0842	na	na	na	na	na	0.022	13.2	na	na	na	2.80	na	<0.00020	0.0233	na	na	na
	08/01/02	1700	240	<5	<2	na	na	na	na	na	<0.05	4.09	na	na	na	1.34	na	<0.0002	0.025	na	na	na
MW-6	08/05/03	1600	250	<0.5	<0.2	na	na	na	na	na	0.12	14	na	na	na	0.30	na	na	0.027	na	na	na
	11/30/94	2400	700	410	<0.06	293	7.1	197	267	624	<0.005	0.109	<0.0005	<0.01	0.014	<0.05	<0.002	<0.0002	0.562	<0.005	<0.01	na
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2460	715	527	na	na	na	na	na	na	<0.03	0.37	<0.01	<0.01	na	na	<0.03	<0.0002	0.95	<0.04	<0.01	na
	02/04/97	2390	700	467	na	na	na	na	na	na	<0.03	0.12	<0.01	<0.01	<0.01	0.01	<0.03	<0.0002	0.79	<0.04	<0.01	<0.03

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)											
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc	
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.05	0.002	0.2	0.05	0.05	10
		(Unfiltered metals analysis)																					
	05/10/97	2550	700	463	< 0.05	na	na	na	na	na	< 0.03	0.55	< 0.01	0.02	0.03	14	< 0.03	< 0.0002	1.1	< 0.04	< 0.01	< 0.05	
	08/07/97	2660	720	427	0.4	na	na	na	na	na	< 0.03	0.1	< 0.01	< 0.01	< 0.01	0.01	< 0.03	< 0.0002	0.69	< 0.04	< 0.01	< 0.03	
	10/09/97	2710	710	468	< 0.05	na	na	na	na	na	< 0.03	0.8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.93	< 0.04	< 0.01	0.29	
	01/23/98	2190	700	378	< 0.05	na	na	na	na	na	< 0.03	0.95	< 0.01	< 0.01	< 0.01	0.18	< 0.03	< 0.0002	0.91	< 0.04	< 0.01	0.4	
	04/16/98	1700	720	500	0.89	na	na	na	na	na	< 0.1	0.121	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.933	< 0.1	< 0.01	< 0.02	
	07/16/98	2100	620	550	< 0.1	na	na	na	na	na	< 0.1	0.112	< 0.005	< 0.01	< 0.01	0.7	< 0.05	< 0.0002	0.844	< 0.1	< 0.01	< 0.02	
	07/08/99	2400	720	390	< 0.01	na	na	na	na	na	0.008	0.110	< 0.005	< 0.01	< 0.01	0.70	< 0.05	< 0.0002	0.832	< 0.005	< 0.01	< 0.02	
	07/18/00	2390	780	450	< 0.01	na	na	na	na	na	< 0.010	0.1140	< 0.0020	< 0.0050	< 0.0020	0.638	< 0.025	< 0.00020	0.888	< 0.010	< 0.0030	< 0.010	
	08/21/01	3380	802	411	0.0636	na	na	na	na	na	< 0.05	< 0.01	na	na	na	0.103	na	< 0.0002	0.804	na	na	na	
	08/01/02	2700	740	490	< 2.0	na	na	na	na	na	0.025	0.11	na	na	na	0.36	na	na	na	0.88	na	na	
	08/05/03	2600	720	560	< 0.2	na	na	na	na	na	< 0.020	0.12	na	na	na	1.0	na	na	na	0.93	na	na	
	MW-7	11/30/94	2400	400	920	6.8	323	7.9	148	244	327	0.006	0.032	< 0.0005	< 0.01	0.014	< 0.05	< 0.002	< 0.0002	0.069	0.008	< 0.01	na
		09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11/12/96		2240	400	823	na	na	na	na	na	na	< 0.03	1.27	< 0.01	0.01	na	na	< 0.03	< 0.0002	0.6	< 0.04	< 0.01	na	
02/04/97		2100	380	779	na	na	na	na	na	na	< 0.03	0.04	< 0.01	< 0.01	< 0.01	0.01	< 0.03	< 0.0002	0.04	< 0.04	< 0.01	< 0.03	
											0.12	3.2	< 0.01	0.04	0.06	41	0.04	< 0.0002	1.2	< 0.04	< 0.01	0.14	
05/10/97		2250	390	757	7.3	na	na	na	na	na	< 0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.04	< 0.04	< 0.01	< 0.03	
08/07/97		2310	370	716	4.1	na	na	na	na	na	< 0.03	0.61	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.09	< 0.04	< 0.01	0.22	
10/09/97		2190	410	784	7	na	na	na	na	na	< 0.03	0.81	< 0.01	< 0.01	< 0.01	0.19	< 0.03	< 0.0002	0.07	< 0.04	< 0.01	0.35	
01/23/98		1700	400	646	8.4	na	na	na	na	na	< 0.1	0.018	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.042	< 0.1	< 0.01	< 0.02	
04/17/98		1800	410	900	8.38	na	na	na	na	na	< 0.1	0.021	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.051	< 0.1	< 0.01	0.02	
07/16/98		1900	301	800	8.2	na	na	na	na	na	0.007	0.019	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.061	0.012	< 0.01	< 0.02	
07/08/99		2100	360	670	8.0	na	na	na	na	na	< 0.010	0.0191	< 0.0020	< 0.0050	< 0.0020	< 0.010	< 0.025	< 0.00020	0.0517	0.012	< 0.0030	< 0.010	
07/18/00		2040	390	730	8.0	na	na	na	na	na	< 0.010	0.0184	na	na	na	< 0.010	na	< 0.00020	0.0384	na	na	na	
08/21/01		2290	394	632	3.46	na	na	na	na	na	< 0.05	0.0215	na	na	na	< 0.05	na	< 0.0002	0.0459	na	na	na	
08/01/02		2000	380	650	7.5	na	na	na	na	na	< 0.010	0.022	na	na	na	< 0.020	na	na	na	0.061	na	na	

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)																					
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc											
NMWQCC Standard																						0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10
MW-8	08/05/03	2000	380	660	6.7	na	na	na	na	na	<0.020	0.019	na	na	na	<0.020	na	na	0.060	na	na	na	na										
	11/30/94	1900	590	330	0.44	247	6	137	221	441	0.006	0.052	<0.0005	<0.01	0.014	<0.05	<0.002	<0.0002	0.136	<0.005	<0.01	na											
	09/13/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na											
	11/12/96	2010	555	395	na	na	na	na	na	na	<0.03	0.13	<0.01	<0.01	na	na	<0.03	<0.0002	0.41	<0.04	<0.01	na											
	02/06/97	2000	575	222	na	na	na	na	na	na	<0.03	0.08	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.44	<0.04	<0.01	<0.03											
	05/10/97	1990	550	263	<0.05	na	na	na	na	na	<0.03	0.27	<0.01	0.02	0.02	8.9	<0.03	<0.0002	0.72	<0.04	<0.01	0.05											
	08/07/97	2020	540	251	0.07	na	na	na	na	na	<0.03	0.06	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.52	<0.04	<0.01	<0.03											
	10/09/97	2100	570	242	<0.05	na	na	na	na	na	<0.03	0.8	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.67	<0.04	<0.01	0.24											
	01/24/98	1740	500	248	<0.05	na	na	na	na	na	<0.03	0.7	<0.01	<0.01	<0.01	<0.01	0.18	<0.03	<0.0002	0.86	<0.04	<0.01	0.25										
	04/17/98	1300	550	400	0.88	na	na	na	na	na	<0.1	0.071	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	0.543	<0.1	<0.01	<0.02											
Dup (MW-17)	07/17/98	1500	557	400	<0.1	na	na	na	na	na	<0.1	0.071	<0.005	<0.01	<0.01	0.65	<0.05	<0.0002	0.751	<0.1	<0.01	<0.02											
	07/17/98	1500	578	30	<0.1	na	na	na	na	na	0.008	0.063	<0.005	<0.01	<0.01	0.03	<0.05	<0.0002	0.506	<0.005	<0.01	<0.02											
Dup (MW-17)	07/09/99	1900	550	250	0.09	na	na	na	na	na	<0.010	0.0731	<0.0020	<0.0050	<0.0020	0.141	<0.025	<0.00020	0.781	<0.010	<0.0030	<0.010											
	07/09/99	1900	540	250	0.11	na	na	na	na	na	<0.010	0.0728	<0.0020	<0.0050	0.0029	0.242	<0.025	<0.00020	0.731	<0.010	<0.0030	<0.010											
Dup (MW-17)	07/18/00	1790	580	240	0.02	na	na	na	na	na	<0.010	0.0703	na	na	na	0.082	na	<0.00020	0.734	na	na	na											
	07/18/00	1830	580	240	0.02	na	na	na	na	na	<0.010	0.0712	na	na	na	0.107	na	<0.00020	0.734	na	na	na											
Dup (MW-17)	08/21/01	2430	576	195	<0.01	na	na	na	na	na	<0.05	0.0717	na	na	na	0.0909	na	<0.0002	0.903	na	na	na											
	08/21/01	2460	647	172	0.0813	na	na	na	na	na	<0.05	0.078	na	na	na	0.097	na	<0.0002	0.948	na	na	na											
Dup (MW-18)	08/01/02	1900	490	170	<2.0	na	na	na	na	na	<0.010	0.082	na	na	na	0.026	na	na	0.91	na	na	na											
	08/01/02	1800	510	170	<2.0	na	na	na	na	na	<0.010	0.080	na	na	na	0.024	na	na	0.94	na	na	na											
Dup (MW-19)	08/05/03	1700	470	180	<0.2	na	na	na	na	na	<0.020	0.11	na	na	na	0.18	na	na	1.0	na	na	na											
	08/05/03	1700	490	170	<0.2	na	na	na	na	na	<0.020	0.16	na	na	na	0.18	na	na	0.96	na	na	na											
MW-14	09/13/95	2360	515	700	1.91	276	7	147	170	444	<0.05	0.14	<0.005	<0.01	na	na	<0.05	<0.0002	na	<0.1	<0.01	na											
	11/12/96	2510	550	837	na	na	na	na	na	na	<0.03	0.05	<0.01	<0.01	na	na	<0.03	<0.0002	0.07	<0.04	<0.01	na											
	02/04/97	2510	575	757	na	na	na	na	na	na	<0.03	0.07	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.06	<0.04	<0.01	<0.03											

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)							Metals (mg/L)														
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc	
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10	
	(Unfiltered metals analysis)																						
	2530	520	715	2.2	na	na	na	na	na	<0.03	0.13	<0.01	<0.01	<0.01	<0.01	1.9	<0.03	<0.0002	0.1	<0.04	<0.01	<0.03	
	2420	520	662	1.9	na	na	na	na	na	<0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.07	<0.04	<0.01	<0.03	
	2490	550	769	2.3	na	na	na	na	na	<0.03	0.73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.11	<0.04	<0.01	0.22	
	2200	500	663	2.9	na	na	na	na	na	<0.03	0.54	<0.01	<0.01	<0.01	<0.01	0.18	<0.03	<0.0002	0.11	<0.04	<0.01	0.22	
	2000	540	800	3.72	na	na	na	na	na	<0.1	0.018	<0.005	<0.01	<0.01	<0.01	<0.02	<0.05	<0.0002	0.080	<0.1	<0.01	<0.02	
	1800	557	700	2.8	na	na	na	na	na	<0.1	0.028	<0.005	<0.01	<0.01	<0.01	0.03	0.05	<0.0002	0.119	<0.1	<0.01	0.02	
	2400	530	640	2.7	na	na	na	na	na	0.011	0.021	<0.005	<0.01	<0.01	<0.01	<0.02	<0.05	<0.0002	0.136	0.010	<0.01	0.02	
	2310	570	690	2.1	na	na	na	na	na	<0.010	0.0216	<0.0020	<0.0050	0.0025	<0.010	<0.010	<0.025	<0.00020	0.111	<0.010	<0.0030	<0.010	
	2900	593	597	0.817	na	na	na	na	na	<0.010	0.0182	na	na	na	na	<0.010	na	<0.00020	0.105	na	na	na	
	2300	510	580	1.2	na	na	na	na	na	<0.010	0.026	na	na	na	na	<0.020	na	na	0.31	na	na	na	
	2300	560	610	0.71	na	na	na	na	na	<0.020	0.280	na	na	na	na	<0.020	na	na	0.42	na	na	na	
	MW15	2500	442	900	13.2	291	6.5	137	206	286	<0.05	0.02	<0.005	<0.01	na	na	na	<0.05	<0.0002	na	<0.1	0.01	na
		2420	435	892	na	na	na	na	na	na	<0.03	0.06	<0.01	<0.01	na	na	na	<0.03	<0.0002	0.02	<0.04	<0.01	na
		2360	420	924	na	na	na	na	na	na	<0.03	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	<0.03
		2530	860	1020	10.2	na	na	na	na	na	<0.03	0.17	<0.01	<0.01	<0.01	<0.01	2.3	<0.03	<0.0002	0.06	<0.04	<0.01	<0.03
		2510	410	825	10.2	na	na	na	na	na	<0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	<0.03
		2400	420	941	5.8	na	na	na	na	na	<0.03	0.63	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	0.26
		2150	400	766	12.54	na	na	na	na	na	<0.03	0.53	<0.01	<0.01	<0.01	<0.01	0.19	<0.03	<0.0002	<0.01	<0.04	<0.01	0.23
		1700	420	1000	19.6	na	na	na	na	na	<0.1	0.014	<0.005	<0.01	<0.01	<0.01	<0.02	<0.05	<0.0002	<0.005	<0.1	<0.01	<0.02
		1800	386	1000	11.9	na	na	na	na	na	<0.1	0.020	<0.005	<0.01	<0.01	<0.01	0.06	<0.05	<0.0002	<0.005	<0.1	<0.01	0.03
		2100	340	710	13.0	na	na	na	na	na	0.012	0.018	<0.005	<0.01	<0.01	<0.01	0.24	<0.05	<0.0002	<0.005	0.020	<0.01	<0.02
		1970	350	730	13.0	na	na	na	na	na	<0.010	0.0231	<0.0020	<0.0050	<0.0020	0.144	<0.025	<0.00020	0.0014	0.016	<0.0030	<0.010	
		2290	368	736	4.96	na	na	na	na	na	<0.010	0.0226	na	na	na	na	0.042	na	<0.00020	0.002	na	na	na
2000		340	740	12	na	na	na	na	na	<0.05	0.0283	na	na	na	na	<0.05	na	<0.0002	<0.01	na	na	na	
2000		320	730	11	na	na	na	na	na	0.043	0.045	na	na	na	na	<0.020	na	na	<0.002	na	na	na	

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TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)												
		NO ₂ /NO ₃ - N, total										Total alkalinity (as CaCO ₃)	Sodium	Magnesium	Potassium	Calcium	Sulfate	Chloride	TDS					
		1000	250	600	10	none	none	none	none	none	none													
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	none		0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	0.05
	MW16	2570	624	850	2.62	320	9.7	188	211	410		< 0.05	0.22	< 0.005	0.02	na	na	na	< 0.05	0.0003	na	< 0.1	< 0.01	na
		3550	995	1020	na	na	na	na	na	na	na	< 0.03	0.06	< 0.01	< 0.01	na	na	na	< 0.03	< 0.0002	1.21	< 0.04	< 0.01	na
		3470	950	830	na	na	na	na	na	na	na	< 0.03	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	1.1	< 0.04	< 0.01	< 0.03
												0.07	0.37	< 0.01	0.02	0.04	27	0.04	< 0.0002	1.8	< 0.04	< 0.01	0.1	
	05/10/97	3520	420	1110	1.6	na	na	na	na	na	< 0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	1.07	< 0.04	0.02	0.02	
	08/06/97	3480	860	1010	1.7	na	na	na	na	na	< 0.03	0.67	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	1.1	< 0.04	0.02	0.29	
	10/08/97	3370	860	904	0.95	na	na	na	na	na	< 0.03	0.52	< 0.01	< 0.01	< 0.01	0.26	< 0.03	< 0.0002	1.14	< 0.04	< 0.01	0.25		
	01/23/98	2730	800	824	0.91	na	na	na	na	na	< 0.1	0.019	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.971	< 0.1	< 0.01	< 0.02		
	04/16/98	2400	710	1100	1.78	na	na	na	na	na	< 0.1	0.026	< 0.005	< 0.01	< 0.01	0.04	< 0.05	< 0.0002	0.941	< 0.1	< 0.01	< 0.02		
07/16/98	2500	620	1100	1.2	na	na	na	na	na	< 0.005	0.023	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.913	< 0.005	< 0.01	0.03			
SVE-1A	07/08/99	3200	830	920	1.8	na	na	na	na	na	< 0.010	0.0240	< 0.0020	< 0.0050	0.0020	< 0.010	< 0.025	< 0.00020	0.781	< 0.010	< 0.0030	< 0.010		
	07/17/00	3080	890	1000	2.1	na	na	na	na	na	< 0.010	0.0204	na	na	na	0.0140	na	< 0.00020	0.957	na	na	na		
	08/21/01	3530	809	937	0.295	na	na	na	na	na	< 0.05	0.019	na	na	na	< 0.05	na	< 0.0002	1.52	na	na	na		
	08/01/02	3000	690	930	1.5	na	na	na	na	na	0.040	0.028	na	na	na	< 0.020	na	na	0.85	na	na	na		
	08/05/03	3000	700	980	1.4	na	na	na	na	na	< 0.020	0.016	na	na	na	< 0.020	na	na	0.61	na	na	na		
	07/18/01	1870	300	< 3.0	0.03	na	na	na	na	na	0.067	30.7	na	na	na	na	6.79	na	0.00020	0.0257	na	na	na	
	08/21/01	2030	193	6.69	< 0.01	na	na	na	na	na	0.109	8.71	na	na	na	0.531	na	na	< 0.0002	0.0112	na	na	na	
	08/01/02	1700	190	< 5.0	< 2.0	na	na	na	na	na	0.21	29	na	na	na	0.29	na	na	na	0.010	na	na	na	
	08/05/03	1700	240	< 0.5	< 0.2	na	na	na	na	na	0.12	24	na	na	na	5.3	na	na	na	0.0092	na	na	na	

NOTES:

na - Analysis for this constituent was not run on samples collected during this sample event

**Table 7. Summary of Completion Details for Soil Borings Completed as Wells
TW WT-1 Station Engine Room Pit Area**

Well	Source ^a	Date of Completion	Measuring Point Elevation ^b (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-1	SH&B/B&R	08/12/92	3,547.65	-36.2	-661.8	53.5	55.04	Stickup	2	43.5-53.5	41.0
MW-2	SH&B/B&R	09/01/92	3,546.28	-2.8	-552.0	50.0	52.31	Stickup	2	40-50	38.0
MW-3	SH&B/B&R	08/28/92	3,548.99	-174.5	-619.3	48.5	50.00	Flush Mount	2	38.5-48.5	35.5
MW-4	Eades/DBS&A	11/29/94	3,548.29	-322.5	-664.2	80.0	58.25	Flush Mount	2	43.5-58.5	41.0
MW-5	Eades/DBS&A	11/29/94	3,543.60	52.4	-642.0	59.6	59.75	Flush Mount	2	44.6-59.6	41.0
MW-6	Eades/DBS&A	11/28/94	3,543.33	132.1	-834.3	61.0	61.20	Flush Mount	2	46-61	42.5
MW-7	Eades/DBS&A	11/21/94	3,542.00	129.5	-470.6	56.0	54.88	Flush Mount	2	40-55	37.0
MW-8	Eades/DBS&A	11/20/94	3,541.49	195.3	-639.1	59.0	59.20	Flush Mount	2	44-59	42.0
MW-14	Eades/DBS&A	09/11/95	3,539.73	353.3	-671.4	61.0	60.25	Flush Mount	2	45.5-60.5	43.0
MW-15	Eades/DBS&A	09/12/95	3,542.82	-84.1	-345.5	60.5	57.85	Flush Mount	2	43-58	40.5
MW-16	Eades/DBS&A	09/12/95	3,545.68	-76.1	-930.0	61.0	60.02	Flush Mount	2	45-60	42.0
SVE-1A	Eades/DBS&A	11/18/94	3,545.59	-73.0	-616.0	53.0	52.63	Flush Mount	2	42.5-52.5	41.2
SVE-1B	Eades/DBS&A	11/18/94	3,545.61	-73.0	-616.0	37.5	NA	Flush Mount	2	21-36	18.3
RW-1	GPI/CES	09/07/00	3,545.97	-4.6	-507.7	60.2	62.36	Stickup	4.5	Open hole 43-60.2	None
RW-2	GPI/CES	09/08/00	3,546.26	-3.1	-536.5	60.4	62.45	Stickup	4.5	Open hole 43-60.4	None
RW-3	GPI/CES	09/09/00	3,546.41	-3.1	-566.3	60.0	61.65	Stickup	4.5	Open hole 43-60	None
RW-4	GPI/CES	09/10/00	3,546.96	-2.9	-597.4	60.0	62.10	Stickup	4.5	Open hole 43-60	None
RW-5	GPI/CES	09/11/00	3,546.75	-3.9	-627.0	60.0	62.35	Stickup	4.5	Open hole 43-60	None
RW-6	GPI/CES	09/12/00	3,546.69	-4.0	-656.5	60.0	62.12	Stickup	4.5	Open hole 43-60	None
RW-7	GPI/CES	09/13/00	3,547.50	-3.7	-687.2	60.2	62.52	Stickup	4.5	Open hole 43-60.2	None
RW-8	GPI/CES	09/14/00	3,547.04	-4.2	-716.3	60.1	62.17	Stickup	4.5	Open hole 43-60.1	None
RW-9	GPI/CES	09/20/00	3,545.84	-54.9	-690.0	60.2	59.98	Stickup	4.5	Open hole 43-60.2	None

**Table 7. Summary of Completion Details for Soil Borings Completed as Wells
TW WT-1 Station Engine Room Pit Area**

Well	Source ^a	Date of Completion	Measuring Point Elevation ^b (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)
RW-10	GPI/CES	09/21/00	3,546.32	-107.0	-661.4	60.1	59.90	Stickup	4.5	Open hole 43-60.1	None
RW-11	GPI/CES	09/22/00	3,545.74	-107.8	-588.2	60.2	59.97	Stickup	4.5	Open hole 43-60.2	None
RW-12	GPI/CES	09/23/00	3,544.43	-55.4	-541.4	60.2	60.09	Stickup	4.5	Open hole 43-60.2	None
NOTES: (a) Driller/Consultant (b) Survey by John W. West Engineering											

**Table 8. Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan
TW WT-1 Station Engine Room Pit Area**

Well ID	Analytical Requirements		1,1-DCA (ppb) Latest Result	Comments
	1st Semiannual Event	2nd Semiannual Event		
MW-1	VOC's	VOC's & Inorganics	440	
MW-2	na	na	na	Well contains PSH
MW-3	na	na	na	Well abandoned
MW-4	VOC's	VOC's & Inorganics	< 1	
MW-5	VOC's	VOC's & Inorganics	220	
MW-6	VOC's	VOC's & Inorganics	8.2	
MW-7	VOC's	VOC's & Inorganics	36	
MW-8	VOC's	VOC's & Inorganics	150	
MW-14	VOC's	VOC's & Inorganics	33	
MW-15	VOC's	VOC's & Inorganics	2.5	
MW-16	VOC's	VOC's & Inorganics	1.7	
SVE-1A	VOC's	VOC's & Inorganics	630	
Notes: 1) Voc's by 8260 2) Inorganics include TDS, Cl, NO2/NO3 as N, As, Ba, Fe & Mn 3) "Comments" are provided for wells that will not be sampled during one or more events				



Cypress Engineering

10235 West Little York Road, Suite 256
Houston, Texas 77040

(713) 856-7980 office
(713) 856-7981 fax

January 16, 2004

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Report of Groundwater Remediation Activities
Transwestern Pipeline Company - WT-1 Station Dehy Area
Lea County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for reporting of groundwater remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (713) 345-1537 or Larry Campbell at (505) 625-8022.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment: Larry Campbell
Larry Johnson

Transwestern Pipeline Company
NMOCD Hobbs District Office

RECEIVED

JAN 04 2004

**Oil Conservation Division
Environmental Bureau**

Report of Groundwater Remediation Activities

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

RECEIVED

JAN 04 2004

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

**Oil Conservation Division
Environmental Bureau**

January 16, 2004

**Prepared For:
Transwestern Pipeline Company
6381 North Main Street
Roswell, NM 88201**

**Prepared by:
Cypress Engineering Services, Inc.
10235 West Little York Road, Suite 256
Houston, Texas 77040**

Report of Groundwater Remediation Activities

Transwestern Pipeline Company

WT-1 Compressor Station Dehy Area

I. Groundwater Monitoring Activities

Semiannual Groundwater Sampling Events

Two semi-annual sampling events have been completed since the last report of groundwater remediation activities. These events were completed on February 13, 2003, and August 04, 2003.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase separated hydrocarbon (PSH) was present, was determined for each monitor well and soil vapor extraction (SVE) well. The measured depths and the corresponding water table elevation for each monitor well are presented in Table 1. The measured depths and the corresponding water table elevation for each SVE well are presented in Table 2.

In the course of each sample event, groundwater samples were collected from selected monitoring and SVE wells at the site. Samples were not collected from wells with accumulated PSH in the well casing. Groundwater samples were delivered to a laboratory for analysis by EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes (BTEX). A summary of the laboratory results and field-measured parameters is presented in Table 3.

Results/Conclusions from Groundwater Sampling Events

Occurrence and Direction of Groundwater Flow

A groundwater surface elevation map, based on measurements obtained on August 4, 2003 is included as Figure 3. The groundwater flow direction is toward the north and is consistent with the flow direction indicated by information obtained in the course of previous sampling events.

Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH has been defined by the occurrence of PSH at the water table in monitor well MW-10 and wells SVE-10, SVE-11, SVE-12, SVE-13, and SVE-14. However, during the last eight sampling events, the presence of PSH in these wells has been intermittent. Based on the information currently available, the volume and lateral extent of PSH in the area appears to be relatively limited. A figure indicating the estimated area with PSH present at the water table is included as Figure 4.

Condition of Affected Groundwater

The condition of affected groundwater has not changed significantly from previous sampling events as evidenced by the information presented in Table 3 and Figure 5. The three monitor wells downgradient of the release area 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 below NMWQCC Standards for BTEX constituents for the last eleven sampling events.

II. Planned Changes to the Groundwater Monitoring Program

Frequency of Groundwater Monitoring

Sampling locations, frequency, and the sample analysis plan will continue on a semi-annual basis (see Table 6 for details).

Routine Reporting of Monitoring Activities

Routine reporting will continue on an annual basis. The next annual report will be submitted to the OCD by January 31, 2005.

III. Status of Remediation Activities

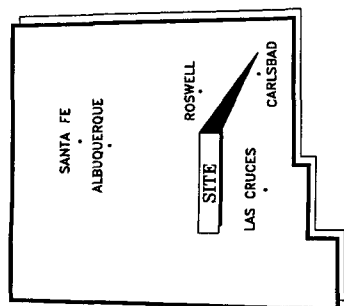
Remediation Activities Completed

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

- 1) Two groundwater-sampling events were completed.
- 2) SVE system vapor samples were collected on May 2, 2003, July 25, 2003 and August 21, 2003. A summary of the laboratory results is presented in Table 4.
- 3) 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, therefore, the system is shut-down in late October each year. The SVE system is scheduled to restart in April 2004.

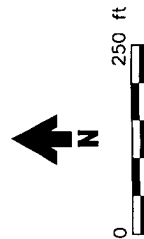
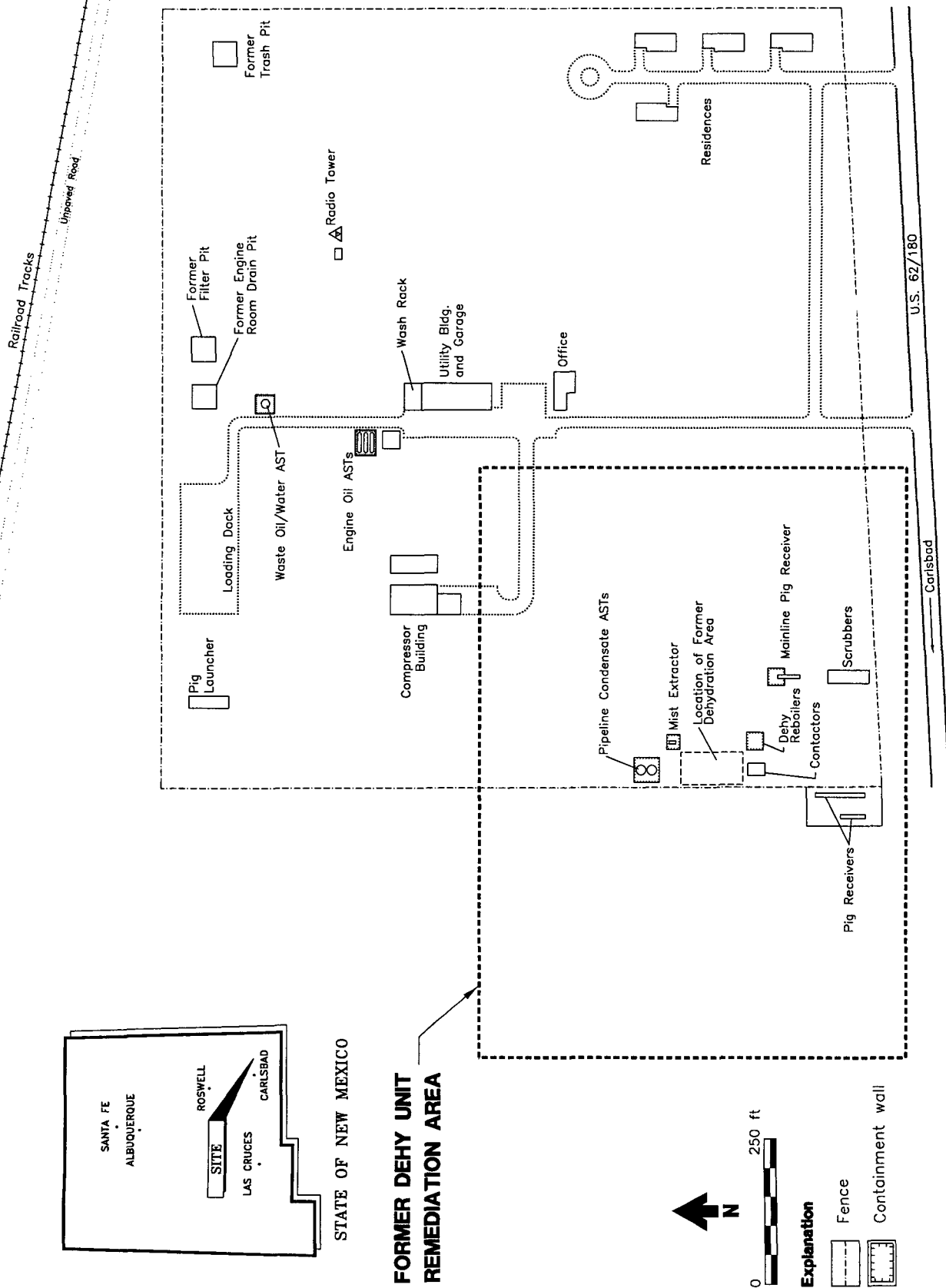
Remediation Activities Planned

The SVE system is scheduled to operate from April 2004 through October 2004.

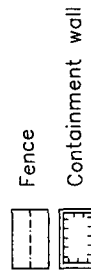


STATE OF NEW MEXICO

FORMER DEHY UNIT REMEDIATION AREA



Explanation



Facility Site Map

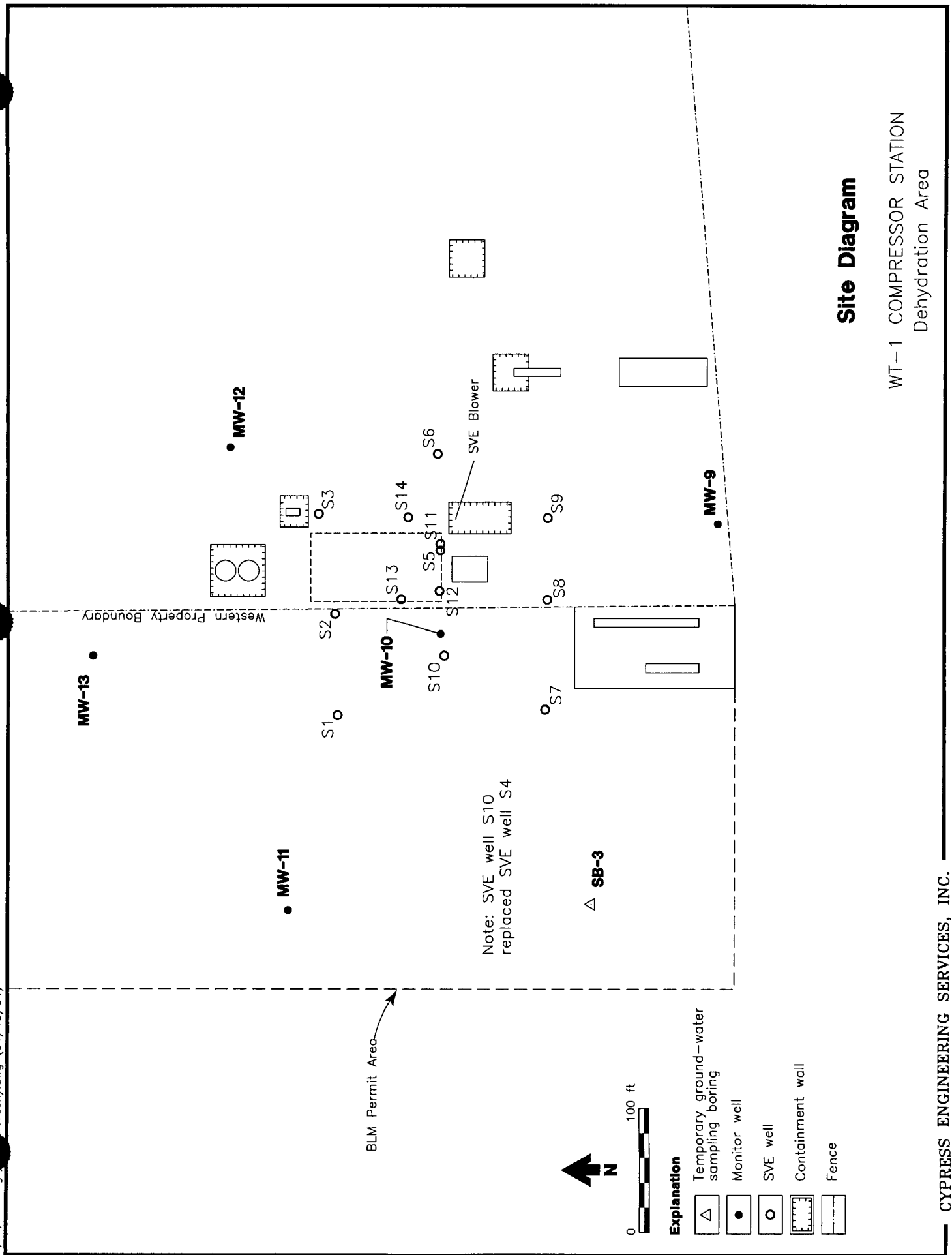
WT-1 COMPRESSOR STATION
TRANSWESTERN PIPELINE COMPANY

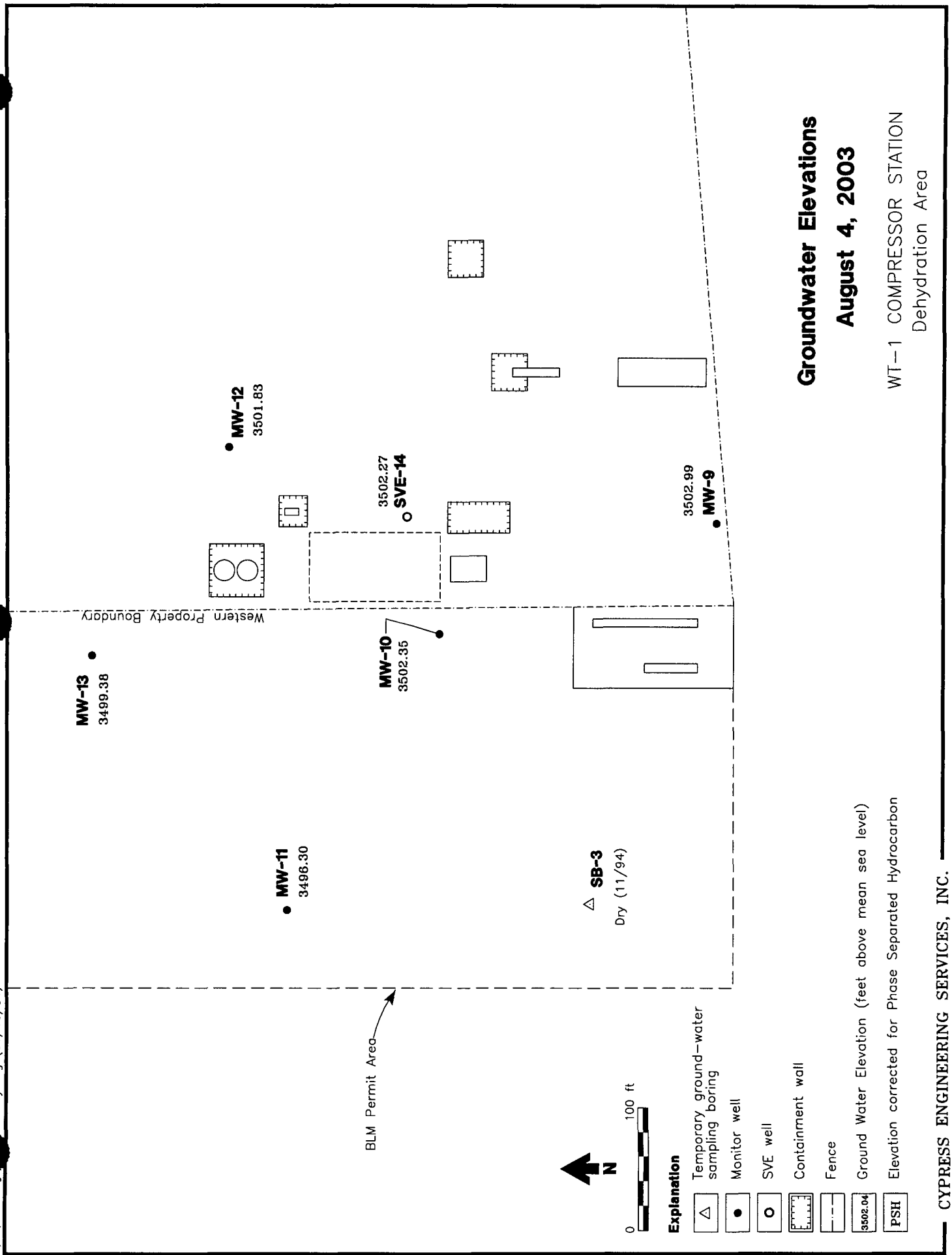
CYPRESS ENGINEERING SERVICES, INC.

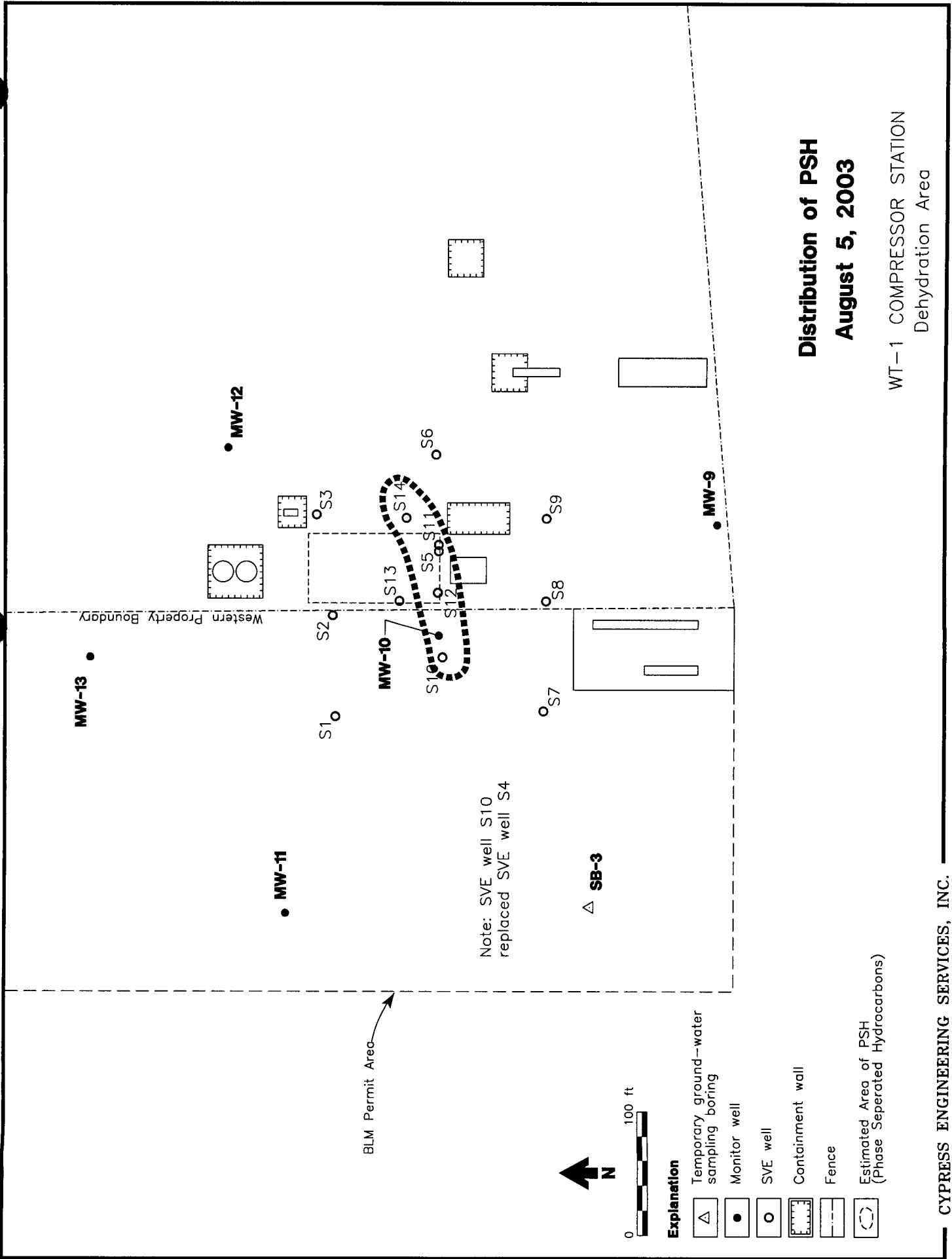
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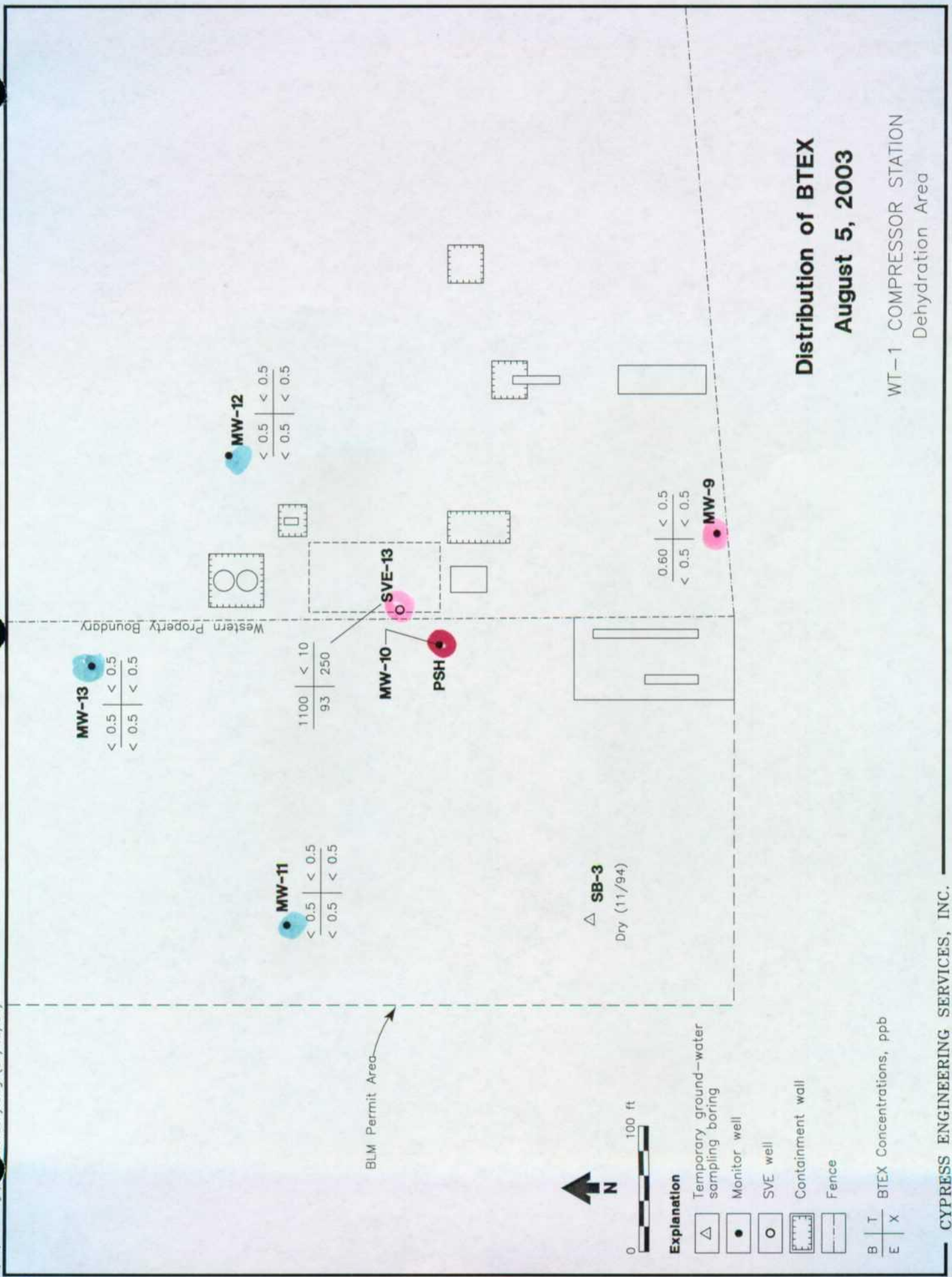
U.S. 62/180

Figure 1









Distribution of BTEX

August 5, 2003

WT-1 COMPRESSOR STATION
Dehydration Area

BTEX Concentrations, ppb

Figure 5

**Table 1. Summary of Ground Water 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
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

**Table 1. Summary of Ground Water 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)
	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
	04/20/00		(a)	55.19	(a)	3498.26
	05/11/00		(a)	54.14	(a)	3499.31
	05/25/00		53.66	53.98	0.32	3500.59
	06/08/00		(a)	58.24	(a)	3495.21
	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
	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
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

**Table 1. Summary of Ground Water 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
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

NOTES:

PSH - Phase separated hydrocarbon

Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.8

**Table 1. Summary of Ground Water 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)
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- (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, Houston, TX dated 08/11/99

**Table 2. Summary of Ground Water 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
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
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
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

**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)
	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)	3502.43
	02/13/03*		51.85	52.06	0.21	3502.50
	08/04/03*		52.90	53.56	0.66	3501.36
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
SVE-7	08/04/03*		(a)	50.88	(a)	3502.86
	05/14/96	3553.81 (e)	(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

**Table 2. Summary of Ground Water 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	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
	05/14/96	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
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
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

**Table 2. Summary of Ground Water 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)
	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
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

**Table 2. Summary of Ground Water 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)
	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
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

**Table 2. Summary of Ground Water 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	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
	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

**Table 2. Summary of Ground Water 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)
	08/04/03*		(a)	51.81	(a)	3502.30
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

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

**Table 3. Summary of Ground Water 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 (μs/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	
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	
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	< 2	
	05/14/96	-	-	-	-	< 2	< 2	< 2	< 2	
	08/12/96	-	7.11	25.7	2,050	< 2	< 2	< 2	< 3	
	11/11/96	6.0	7.15	19.9	-	< 2	< 2	< 2	< 2	
	02/05/97	7.0	7.56	14.8	2,300	< 2	< 2	< 2	< 2	
	08/05/97	5.3	7.19	21.2	2,280	< 2	< 2	< 2	< 2	
	02/24/98	6.5	7.35	18.8	2,100	< 5	< 5	< 5	< 5	
	08/05/98	7.2	7.15	20.4	2,250	< 1	< 1	< 1	< 1	
	02/12/99	-	-	-	-	< 1	< 1	< 1	< 1	
	08/11/99	8.8	7.42	20.8	1,800	< 2	< 2	< 2	< 2	
	02/13/00	6.6	7.83	19.6	2,050	< 1	< 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	

**Table 3. Summary of Ground Water 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 (μs/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
	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
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
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

**Table 3. Summary of Ground Water 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
	08/05/03	4.6	7.42	22.5	1,620	< 0.50	< 0.50	< 0.50	< 0.50
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
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	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
AST	11/18/99	-	-	-	-	290	67	48	310
	03/09/00	-	-	-	-	590	750	92	600

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 other samples were collected after purging 3 casing volumes.
- (d) Dup MW-17 - Blind duplicate sample collected and labeled as MW-17.

**Table 4. Summary of SVE Emissions at Individual Extraction Points
TW WT-1 Compressor Station Dehy Area**

SVE Well	Date	PID Reading	Gasoline Range VOCs		< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ppmv)	(ug/L)	(ppmv) ^(a)	(%)									
SVE-1	08/15/96	0	510	127	3.0	11.3	21.0	28.1	22.9	10.8	2.7	0.2	0.0	0.0
	08/06/97	4.6	25	6	0.5	0.6	2.5	5.8	12.0	16.5	27.6	18.0	12.1	4.4
SVE-2	08/15/96	0	510	127	0.9	6.0	20.9	33.7	25.3	10.3	2.4	0.2	0.0	0.3
	02/06/97		20	5	0.0	5.5	27.2	27.9	16.9	14.3	7.0	0.9	0.3	0.0
	08/06/97	14.0	210	52	0.0	0.0	1.2	9.3	30.7	33.1	15.5	7.5	1.8	0.8
	12/30/97		360	89	0.1	0.5	1.6	11.4	20.6	18.7	19.4	16.7	11.0	0.0
	08/12/98		140	35	0.0	0.2	2.4	11.6	26.9	28.5	21.4	6.7	2.3	0.0
SVE-3	08/15/96	> 2000	14,000	3,478	0.7	16.9	40.6	32.0	9.1	0.7	0.0	0.0	0.0	0.0
	02/06/97		1,900	472	0.0	6.1	33.2	56.5	4.1	0.1	0.0	0.0	0.0	0.0
	08/06/97	146.0	14,000	3,478	0.2	2.8	27.9	40.0	21.5	6.3	1.2	0.1	0.0	0.0
	12/30/97		16,000	3,974	0.2	4.8	26.9	37.6	21.9	6.8	1.2	0.5	0.1	0.0
	08/12/98		11,000	2,732	0.0	3.3	19.6	40.2	25.7	8.6	2.2	0.4	0.0	0.0
SVE-4	08/15/96	> 2000	18,000	4,471	0.5	12.6	36.6	34.6	14.3	1.3	0.1	0.0	0.0	0.0
	02/06/97		4,400	1,093	0.0	15.9	21.0	55.3	7.5	0.3	0.0	0.0	0.0	0.0
	08/06/97	107.0	7,700	1,913	0.2	2.4	17.9	35.3	28.4	11.7	3.6	0.5	0.0	0.0
	12/30/97		10,000	2,484	0.0	1.4	9.9	32.0	31.4	20.8	3.7	0.8	0.0	0.0
	08/12/98		5,600	1,391	0.0	1.1	6.4	25.9	32.0	24.9	5.1	2.9	1.3	0.4
SVE-5	08/15/96	> 2000	16,000	3,974	0.4	16.7	36.1	30.6	13.8	2.3	0.1	0.0	0.0	0.0
	02/06/97		4,200	1,043	0.0	8.3	30.3	53.2	7.3	0.9	0.0	0.0	0.0	0.0
	08/06/97	126.0	10,000	2,484	0.3	3.7	21.9	37.8	24.5	9.0	2.4	0.4	0.0	0.0
	(dup) 08/06/97		11,000	2,732	0.2	3.8	22.0	37.9	24.4	9.0	2.3	0.4	0.0	0.0
	12/30/97		14,000	3,478	0.0	2.4	13.1	35.9	35.7	9.7	2.6	0.5	0.1	0.0
SVE-6	08/12/98		9,400	2,335	0.0	3.0	6.3	45.1	29.1	12.0	3.5	0.8	0.2	0.0
	08/15/96	> 2000	4,100	1,018	0.0	13.2	25.5	23.2	29.4	8.5	0.2	0.0	0.0	0.0
	02/06/97		2,000	497	0.0	1.3	14.2	55.6	27.0	1.9	0.0	0.0	0.0	0.0
	08/06/97	15.2	120	30	0.0	0.2	2.1	18.2	28.7	26.1	15.5	7.4	1.8	0.0
	12/30/97		450	112	0.0	4.6	7.9	15.5	17.2	21.4	11.7	15.7	6.0	0.0
SVE-7	08/12/98		110	27	0.0	5.4	5.9	20.8	24.1	17.9	16.3	6.9	2.7	0.0
	08/15/96	> 2000	1,400	348	0.5	2.4	13.6	33.0	35.0	14.8	0.5	0.0	0.2	0.0
	02/06/97		560	139	0.0	0.9	10.6	49.8	34.5	4.2	0.0	0.0	0.0	0.0
	08/06/97	6.7	37	9	0.0	0.4	1.5	9.6	20.5	30.1	21.8	12.5	3.6	0.0
	08/15/96	> 2000	12,000	2,981	0.3	23.9	39.1	25.7	8.9	1.9	0.2	0.0	0.0	0.0
SVE-8	02/06/97		890	221	0.0	4.0	16.4	45.7	28.6	5.2	0.1	0.0	0.0	0.0
	08/06/97	48.0	700	174	0.9	5.5	19.0	29.0	26.8	12.7	5.0	1.0	0.0	0.0
	12/30/97		2,500	621	0.7	3.1	13.1	25.9	23.5	22.8	8.0	2.4	0.5	0.0
	08/12/98		70	17	0.0	2.4	11.2	29.2	24.1	19.1	8.6	3.7	1.7	0.0
	08/15/96	> 2000	5,700	1,416	6.7	18.2	24.3	31.0	15.0	4.2	0.2	0.1	0.1	0.1
SVE-9	02/06/97		2,400	596	0.0	7.8	31.3	50.5	9.3	1.1	0.1	0.0	0.0	0.0
	08/06/97	132.0	7,600	1,888	0.0	3.6	40.0	27.7	19.2	8.1	1.1	0.3	0.0	0.0
	12/30/97		7,000	1,739	0.0	3.7	23.1	39.3	23.9	6.6	2.5	0.7	0.2	0.0
	08/12/98		5,900	1,466	0.0	4.7	29.0	37.4	19.1	6.9	2.2	0.6	0.1	0.0
	08/15/96	> 2000	5,700	1,416	6.7	18.2	24.3	31.0	15.0	4.2	0.2	0.1	0.1	0.1
MW-10	12/30/97		17,000	4,223	0.1	2.3	13.3	32.9	30.5	18.3	2.1	0.5	0.0	0.0
	08/12/98		13,000	3,229	0.0	4.5	6.2	27.4	41.2	13.8	5.1	1.2	0.6	0.0

**Table 4. Summary of SVE Emissions at Individual Extraction Points
TW WT-1 Compressor Station Dehy Area**

SVE Well	Date	PID Reading	Gasoline Range VOCs		< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ppmv)	(ug/L)	(ppmv) ^(a)	(%)									
Total														
(Core Lab)	02/10/97			6,240										
	03/20/97		6,600	1,639	0.0	2.7	29.3	32.1	23.2	9.2	3.0	0.4	0.1	0.0
(Core Lab)	03/20/97			1,740										
	08/06/97		5,000	1,242	0.3	4.0	21.2	34.8	25.3	10.2	3.5	0.7	0.0	0.0
	12/30/97		7,300	1,813	0.0	2.4	13.6	35.0	29.0	16.9	2.6	0.4	0.1	0.0
	08/05/98		6,500	1,615	0.0	1.3	15.4	32.2	30.5	13.7	5.2	1.3	0.4	0.0
	08/12/98		5,300	1,317	0.0	1.5	8.9	30.9	30.5	22.5	4.7	0.9	0.1	0.0
(dup)	08/12/98		5,000	1,242	0.1	1.5	8.8	31.8	32.9	18.0	5.0	1.4	0.4	0.1
	04/13/99		6,800	1,689	0.0	1.2	8.0	28.5	32.7	23.6	3.9	1.8	0.3	0.0
	12/07/99		4,800	1,192	0.1	6.2	17.6	31.8	28.8	10.0	4.2	0.9	0.2	0.2
(dup)	12/07/99		4,900	1,217	0.1	6.2	17.5	32.3	28.6	9.7	4.2	1.1	0.3	0.0
	05/22/00(b)		3,700	919	0.0	3.8	13.4	35.0	28.7	12.4	4.7	0.8	0.6	0.6
(dup)	05/22/00(b)		6,300	1,565	0.0	3.2	12.1	34.1	31.5	11.4	5.4	1.6	0.6	0.1
	06/15/00(b)		3,000	745	0.1	3.9	16.6	37.7	29.8	8.6	2.1	0.6	0.1	0.5
(dup)	06/15/00(b)		3,700	919	0.1	3.3	15.4	32.6	29.8	10.9	5.8	1.6	0.4	0.1
	08/21/00(b)		3,900	969	0.0	2.9	12.2	28.7	30.0	15.4	7.9	2.4	0.5	0.0
	06/10/02(b)		3,630	902	0.0	1.3	8.3	27.1	30.8	24.6	4.8	2.6	0.5	0.0
(dup)	06/10/02(b)		3,440	854	0.0	1.4	8.4	27.9	31.6	24.3	4.2	2.1	0.1	0.0
	08/09/02(b)		551	137	0.0	4.3	18.9	31.5	23.8	10.3	3.5	2.2	2.9	2.6
(dup)	08/09/02(b)		543	135	0.0	4.6	20.6	34.0	25.1	10.3	3.2	1.5	0.3	0.4
	05/02/03(b)		3,450	857	0.3	3.3	14.6	29.3	19.8	24.4	5.4	2.8	0.1	0.0
(dup)	05/02/03(b)		2,740	681	0.3	3.4	15.3	30.3	20.0	23.4	4.8	2.4	0.1	0.0
	07/25/03(b)		665	165	0.0	2.8	17.2	28.3	34.4	15.4	1.7	0.2	0.0	0.0
(dup)	07/25/03(b)		1,550	385	0.0	2.0	11.7	23.6	36.4	21.1	4.2	1.0	0.0	0.0
	08/21/03(b)		2,590	643	0.0	4.7	20.1	16.0	26.0	25.8	6.1	1.2	0.1	0.0

All air samples analyzed by Hall Laboratory of Albuquerque, NM

PID = Photoionization detector

^(a) Conversion Factor:

$$P = 0.88 \text{ atm, MW} = 110 \text{ g/mole, } R = 0.08205 \text{ L}^{\circ}\text{atm}/(\text{K}^{\circ}\text{mole}), T = 293^{\circ}\text{K}$$

$$C \text{ ppmv} = C \text{ ug/L} \cdot ((R \cdot T)/(\text{MW} \cdot P))$$

$$C \text{ ppmv} = C \text{ ug/L} \cdot 0.2484$$

^(b) Total Flow analysis included wells SVE-11, 12, 13, 14 & MW-10

**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 Drig/DBS	11/18/94	3557.31 (b)	-1209.40	-1254.20	60.5	na	Flush Mount	2	44-59	40.5
MW-10	Eades Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/DBS	10/05/95	3552.75 (d)	-888.70	-1245.80	55.0	55.30	Flush Mount	2	35-55	32.6
SVE-4	Eades Drig/DBS	10/04/95	3553.03 (c)	-989.20	-1359.10	55.0	na	Flush Mount	2	30-55	27.9
SVE-5	Eades Drig/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 Drig/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 Drig/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 Drig/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 Drig/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		Benzene (ppb) Latest Result	Comments
	1st Semiannual Event	2nd Semiannual Event		
MW-9	BTEX	BTEX	< 0.5	
MW-10	BTEX	BTEX	na	contains PSH
MW-11	BTEX	BTEX	< 0.5	clean downgradient well
MW-12	BTEX	BTEX	< 0.5	clean downgradient well
MW-13	BTEX	BTEX	< 0.5	clean downgradient well
SVE-13	BTEX	BTEX	1100	
SVE-14	BTEX	BTEX	na	contains PSH intermittently

Notes:
1) na - not available
2) BTEX - BTEX Compounds by EPA Method 8021B



Cypress Engineering

10235 West Little York Road, Suite 256
Houston, Texas 77040

(713) 856-7980 office
(713) 856-7981 fax

January 10, 2003

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

JAN 27 2003

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: Report of Groundwater Remediation Activities
Transwestern Pipeline Company - WT-1 Station Dehy Area
Lea County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for reporting of groundwater remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (713) 345-1537 or Larry Campbell at (505) 625-8022.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment: Larry Campbell
Larry Johnson

Transwestern Pipeline Company
NMOCD Hobbs District Office

Report of Groundwater Remediation Activities

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

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

January 10, 2003

**Prepared For:
Transwestern Pipeline Company
6381 North Main Street
Roswell, NM 88201**

**Prepared by:
Cypress Engineering Services, Inc.
10235 West Little York Road, Suite 256
Houston, Texas 77040**

Report of Groundwater Remediation Activities

Transwestern Pipeline Company

WT-1 Compressor Station Dehy Area

I. Groundwater Monitoring Activities

Semiannual Groundwater Sampling Events

Two semi-annual sampling events have been completed since the last report of groundwater remediation activities. These events were completed on February 27, 2002, and August 01, 2002.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase separated hydrocarbon (PSH) was present, was determined for each monitor well and soil vapor extraction (SVE) well. The measured depths and the corresponding water table elevation for each monitor well are presented in Table 1. The measured depths and the corresponding water table elevation for each SVE well are presented in Table 2.

In the course of each sample event, groundwater samples were collected from selected monitoring and SVE wells at the site. Samples were not collected from wells with accumulated PSH in the well casing. Groundwater samples were delivered to a laboratory for analysis by EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes (BTEX). A summary of the laboratory results and field-measured parameters is presented in Table 3.

Results/Conclusions from Groundwater Sampling Events

Occurrence and Direction of Groundwater Flow

A groundwater surface elevation map, based on measurements obtained on July 31, 2002 is included as Figure 3. The groundwater flow direction is toward the north and is consistent with the flow direction indicated by information obtained in the course of previous sampling events.

Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH has been defined by the occurrence of PSH at the water table in monitor well MW-10 and wells SVE-10, SVE-11, SVE-12, SVE-13, and SVE-14. However, during the last six sampling events, the presence of PSH in these wells has been intermittent. Based on the information currently available, the volume and lateral extent of PSH in the area appears to be relatively limited.

Condition of Affected Groundwater

The condition of affected groundwater has not changed significantly from previous sampling events as evidenced by the information presented in Table 3 and Figure 4. The three monitor wells downgradient of the release area 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 below NMWQCC Standards for BTEX constituents for the last nine sampling events.

II. Planned Changes to the Groundwater Monitoring Program

Frequency of Groundwater Monitoring

Sampling locations, frequency, and the sample analysis plan will continue on a semi-annual basis (see Table 6 for details).

Routine Reporting of Monitoring Activities

Routine reporting will continue on an annual basis. The next annual report will be submitted to the OCD by January 31, 2004.

III. Status of Remediation Activities

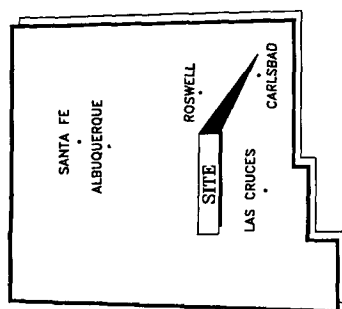
Remediation Activities Completed

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

- 1) Two groundwater-sampling events were completed.
- 2) SVE system vapor samples were collected on June 10, 2002 and August 9, 2002. A summary of the laboratory results is presented in Table 4.
- 3) 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, therefore, the system is shut-down in late October each year. The SVE system is scheduled to restart in April 2003.

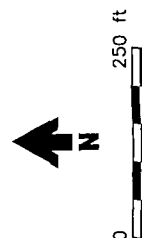
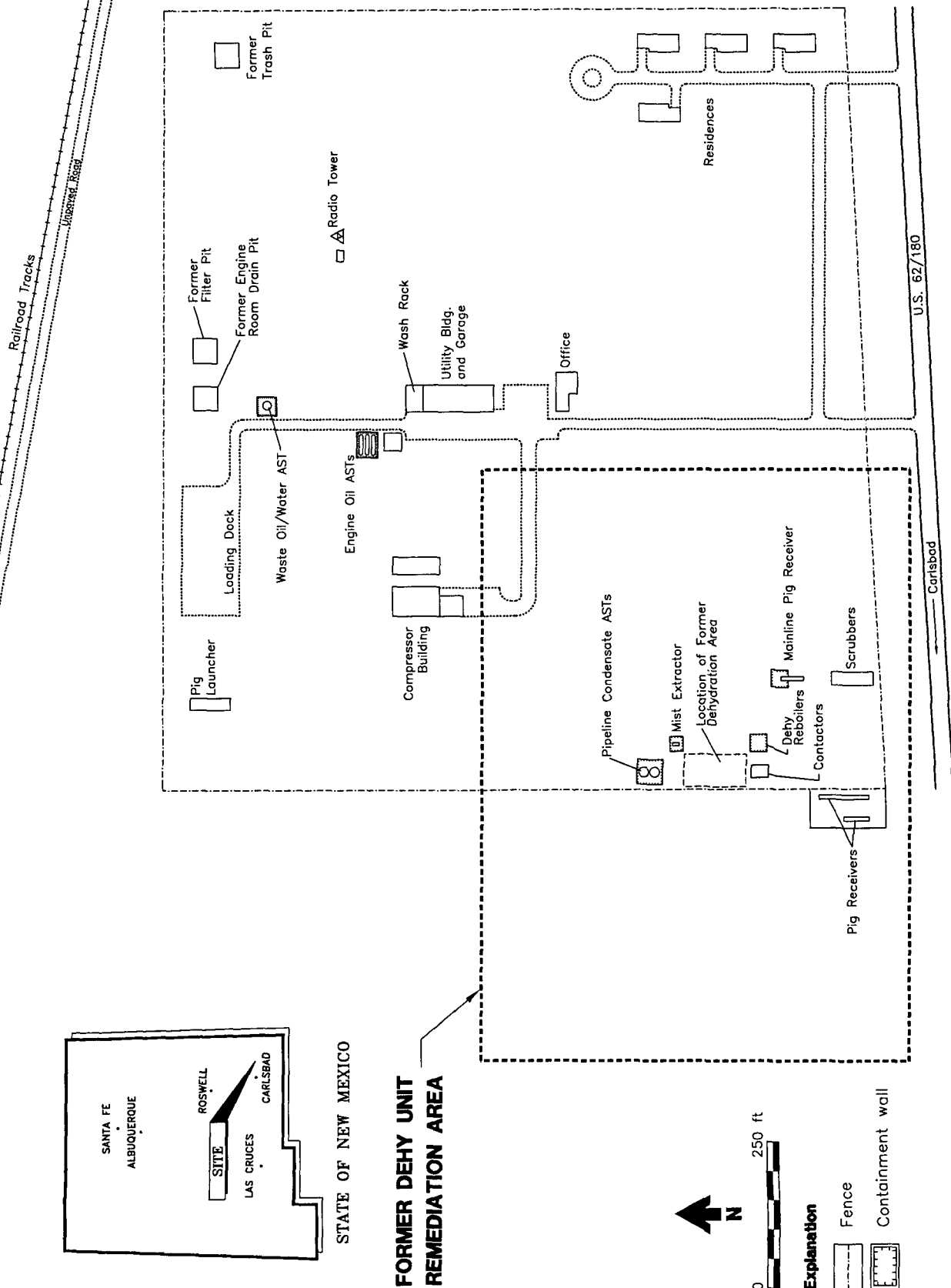
Remediation Activities Planned

The SVE system is scheduled to operate from April 2003 through October 2003.



STATE OF NEW MEXICO

FORMER DEHY UNIT REMEDIATION AREA



Explanation

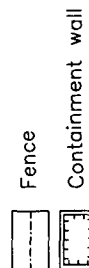
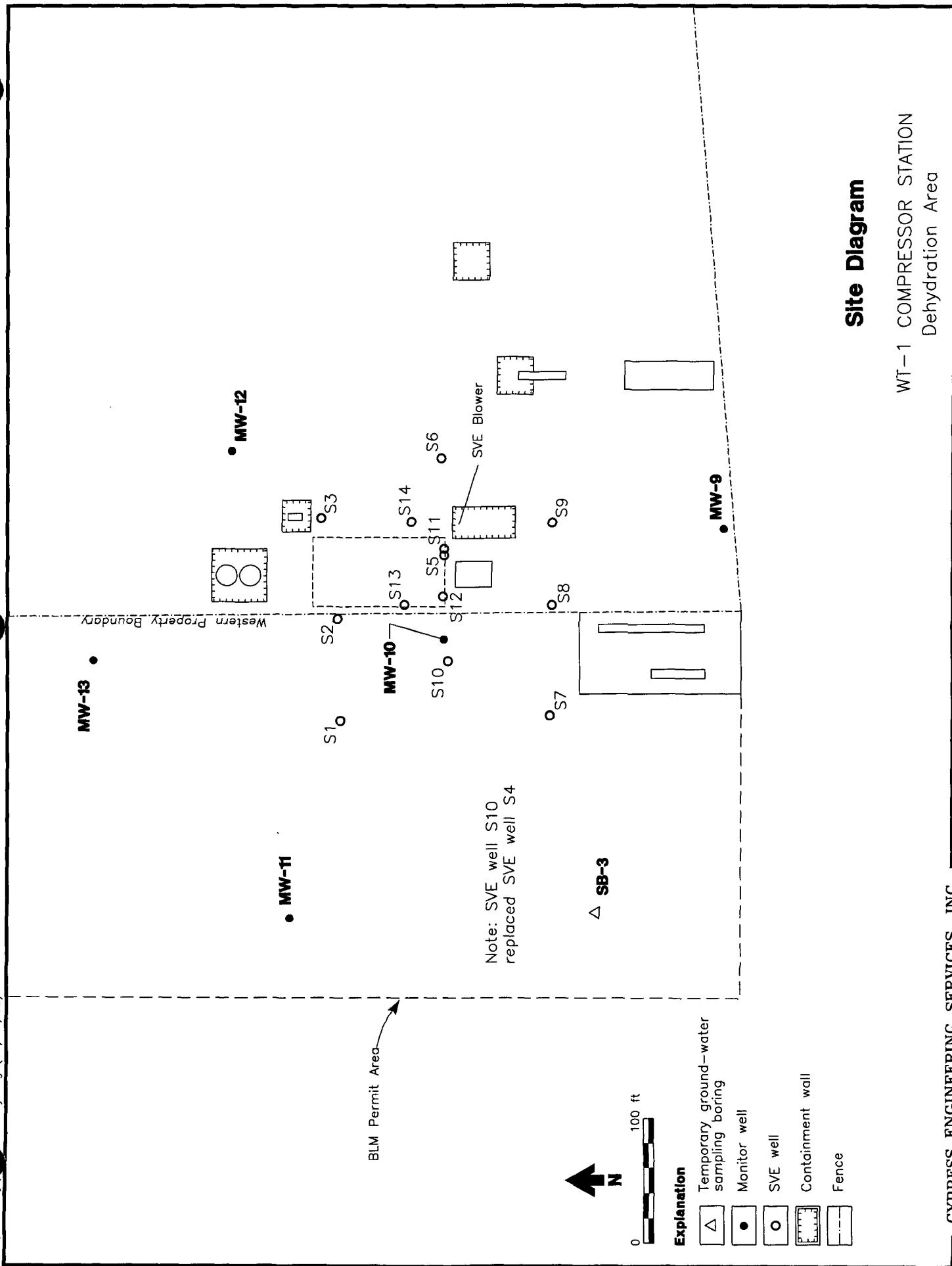


Figure 1

Facility Site Map

WT-1 COMPRESSOR STATION
TRANSWESTERN PIPELINE COMPANY

CYPRESS ENGINEERING SERVICES, INC.



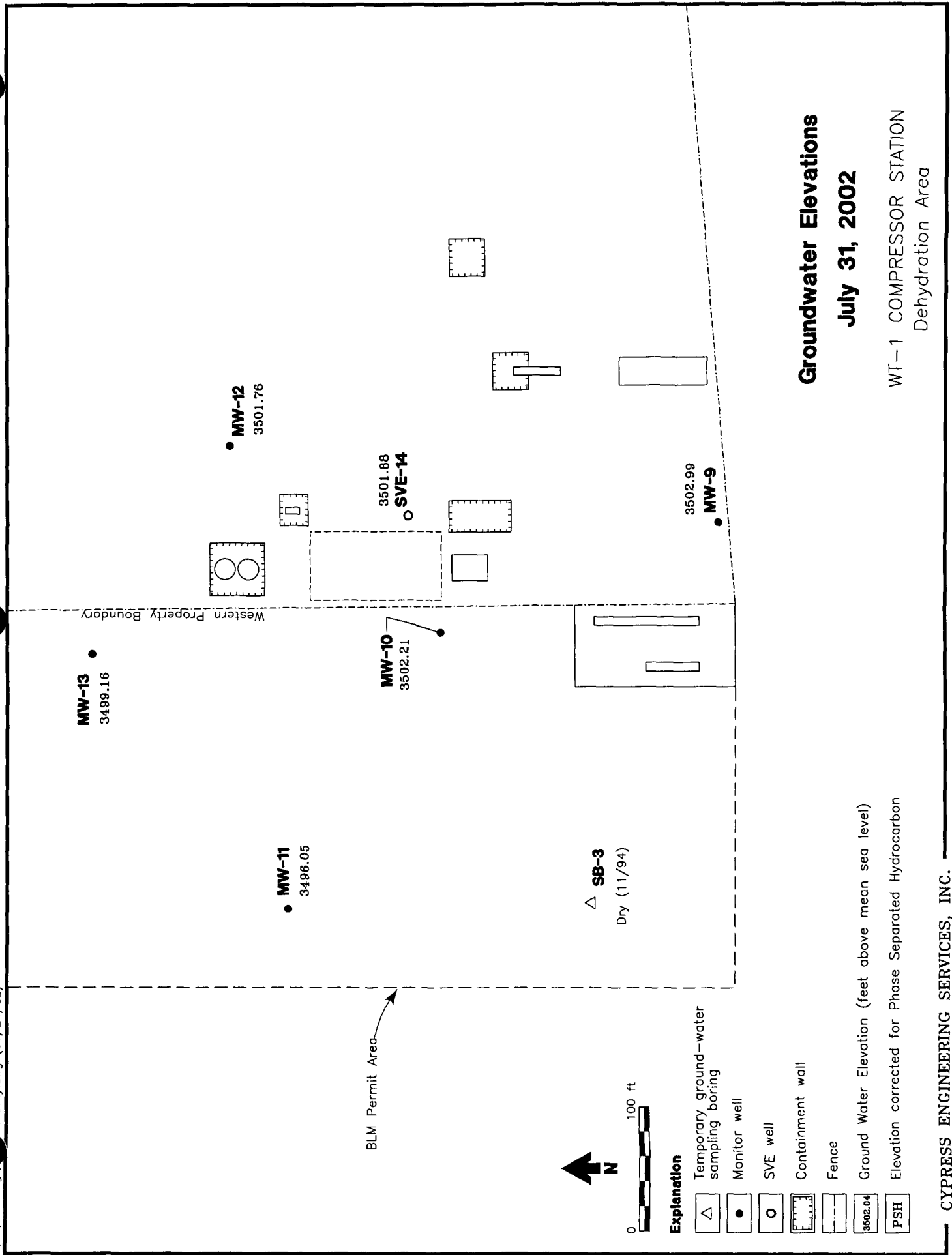
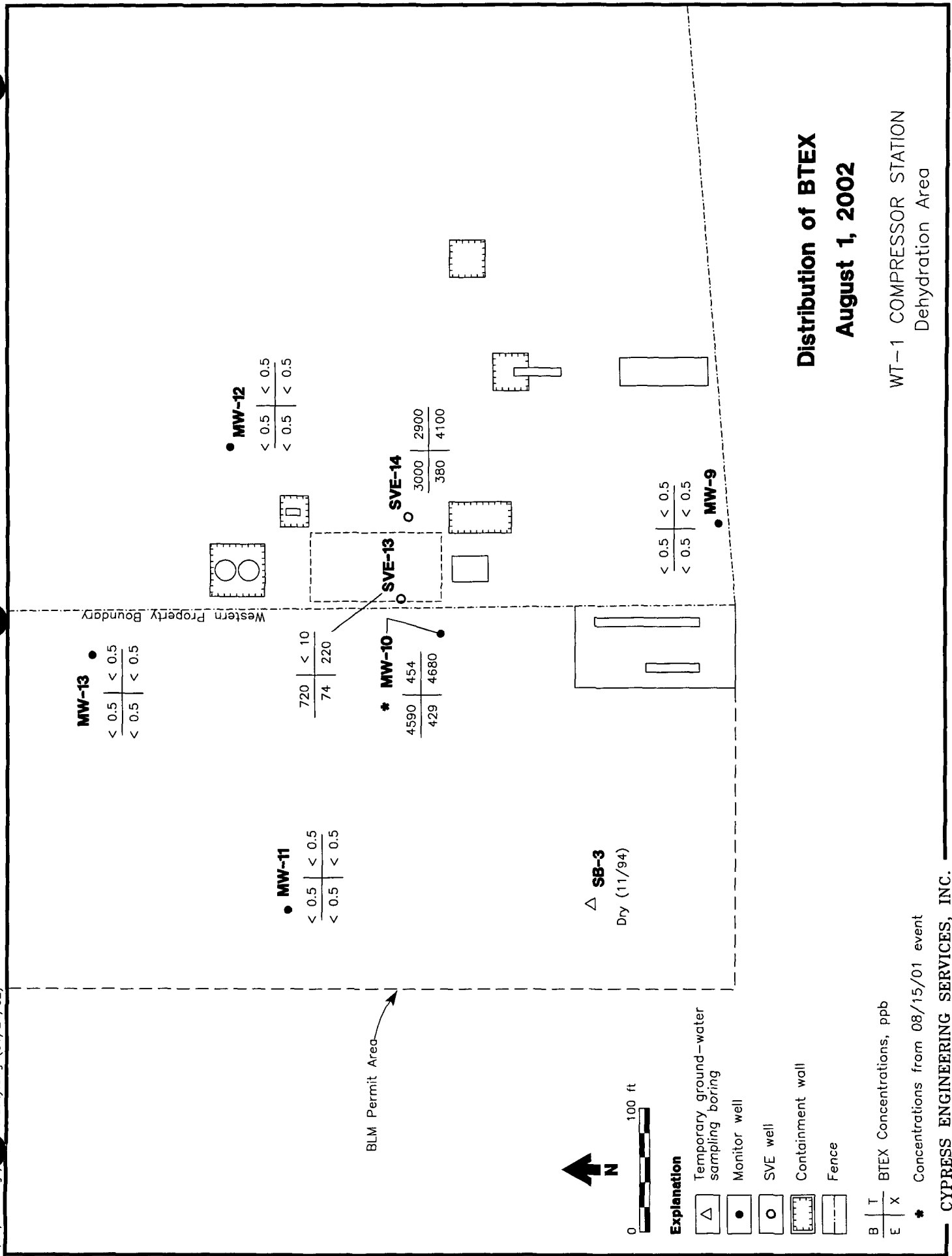


Figure 3



Distribution of BTEX

August 1, 2002

WT-1 COMPRESSOR STATION
Dehydration Area

BTEX Concentrations, ppb

* Concentrations from 08/15/01 event

CYPRESS ENGINEERING SERVICES, INC.

Figure 4

**Table 1. Summary of Ground Water 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
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

**Table 1. Summary of Ground Water 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	02/13/00*		(a)	52.81	(a)	3500.64
	03/06/00		(a)	53.18	(a)	3500.27
	04/20/00		(a)	55.19	(a)	3498.26
	05/11/00		(a)	54.14	(a)	3499.31
	05/25/00		53.66	53.98	0.32	3500.59
	06/08/00		(a)	58.24	(a)	3495.21
	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
	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
	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
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

**Table 1. Summary of Ground Water 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)
	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
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

NOTES:

PSH - Phase separated hydrocarbon

Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming 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, Houston, TX dated 08/11/99

**Table 2. Summary of Ground Water 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
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
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
SVE-4	07/31/02*	3553.03 (d)	(a)	50.57	(a)	3502.18
	05/14/96		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)

**Table 2. Summary of Ground Water 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	08/06/97	3553.74 (e)	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)	3502.43
	05/14/96		(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
SVE-7	05/14/96	3553.81 (e)	(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
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

**Table 2. Summary of Ground Water 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)
	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
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
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

**Table 2. Summary of Ground Water 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	11/16/00	3555.33 (e)	(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
	06/04/99		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

**Table 2. Summary of Ground Water 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
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

**Table 2. Summary of Ground Water 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)
	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
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

**Table 2. Summary of Ground Water 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)
	02/27/02*		(a)	52.88	sheen	3501.95
	07/31/02*		(a)	52.67	(a)	3502.16

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

**Table 3. Summary of Ground Water 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 (µs/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	
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	
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	< 2	
	05/14/96	-	-	-	-	< 2	< 2	< 2	< 2	
	08/12/96	-	7.11	25.7	2,050	< 2	< 2	< 2	< 3	
	11/11/96	6.0	7.15	19.9	-	< 2	< 2	< 2	< 2	
	02/05/97	7.0	7.56	14.8	2,300	< 2	< 2	< 2	< 2	
	08/05/97	5.3	7.19	21.2	2,280	< 2	< 2	< 2	< 2	
	02/24/98	6.5	7.35	18.8	2,100	< 5	< 5	< 5	< 5	
	08/05/98	7.2	7.15	20.4	2,250	< 1	< 1	< 1	< 1	
	02/12/99	-	-	-	-	< 1	< 1	< 1	< 1	
	08/11/99	8.8	7.42	20.8	1,800	< 2	< 2	< 2	< 2	
	02/13/00	6.6	7.83	19.6	2,050	< 1	< 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	

**Table 3. Summary of Ground Water 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
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

**Table 3. Summary of Ground Water 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 (µs/cm)	Benzene	Toluene	Ethylbenzene	Total Xylenes
NMWQCC Standard		none	6-9	none	none	10	750	750	620
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
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	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
AST	11/18/99	-	-	-	-	290	67	48	310
	03/09/00	-	-	-	-	590	750	92	600

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 other samples were collected after purging 3 casing volumes.
- (d) Dup MW-17 - Blind duplicate sample collected and labeled as MW-17.

**Table 4. Summary of SVE Emissions at Individual Extraction Points
TW WT-1 Compressor Station Dehy Area**

SVE Well	Date	PID Reading	Gasoline Range VOCs		< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ppmv)	(ug/L)	(ppmv) ^(a)	(%)									
SVE-1	08/15/96	0	510	127	3.0	11.3	21.0	28.1	22.9	10.8	2.7	0.2	0.0	0.0
	08/06/97	4.6	25	6	0.5	0.6	2.5	5.8	12.0	16.5	27.6	18.0	12.1	4.4
SVE-2	08/15/96	0	510	127	0.9	6.0	20.9	33.7	25.3	10.3	2.4	0.2	0.0	0.3
	02/06/97		20	5	0.0	5.5	27.2	27.9	16.9	14.3	7.0	0.9	0.3	0.0
	08/06/97	14.0	210	52	0.0	0.0	1.2	9.3	30.7	33.1	15.5	7.5	1.8	0.8
	12/30/97		360	89	0.1	0.5	1.6	11.4	20.6	18.7	19.4	16.7	11.0	0.0
	08/12/98		140	35	0.0	0.2	2.4	11.6	26.9	28.5	21.4	6.7	2.3	0.0
SVE-3	08/15/96	> 2000	14,000	3,478	0.7	16.9	40.6	32.0	9.1	0.7	0.0	0.0	0.0	0.0
	02/06/97		1,900	472	0.0	6.1	33.2	56.5	4.1	0.1	0.0	0.0	0.0	0.0
	08/06/97	146.0	14,000	3,478	0.2	2.8	27.9	40.0	21.5	6.3	1.2	0.1	0.0	0.0
	12/30/97		16,000	3,974	0.2	4.8	26.9	37.6	21.9	6.8	1.2	0.5	0.1	0.0
	08/12/98		11,000	2,732	0.0	3.3	19.6	40.2	25.7	8.6	2.2	0.4	0.0	0.0
SVE-4	08/15/96	> 2000	18,000	4,471	0.5	12.6	36.6	34.6	14.3	1.3	0.1	0.0	0.0	0.0
	02/06/97		4,400	1,093	0.0	15.9	21.0	55.3	7.5	0.3	0.0	0.0	0.0	0.0
	08/06/97	107.0	7,700	1,913	0.2	2.4	17.9	35.3	28.4	11.7	3.6	0.5	0.0	0.0
	12/30/97		10,000	2,484	0.0	1.4	9.9	32.0	31.4	20.8	3.7	0.8	0.0	0.0
	08/12/98		5,600	1,391	0.0	1.1	6.4	25.9	32.0	24.9	5.1	2.9	1.3	0.4
SVE-5	08/15/96	> 2000	16,000	3,974	0.4	16.7	36.1	30.6	13.8	2.3	0.1	0.0	0.0	0.0
	02/06/97		4,200	1,043	0.0	8.3	30.3	53.2	7.3	0.9	0.0	0.0	0.0	0.0
	08/06/97	126.0	10,000	2,484	0.3	3.7	21.9	37.8	24.5	9.0	2.4	0.4	0.0	0.0
	(dup) 08/06/97		11,000	2,732	0.2	3.8	22.0	37.9	24.4	9.0	2.3	0.4	0.0	0.0
	12/30/97		14,000	3,478	0.0	2.4	13.1	35.9	35.7	9.7	2.6	0.5	0.1	0.0
SVE-6	08/12/98		9,400	2,335	0.0	3.0	6.3	45.1	29.1	12.0	3.5	0.8	0.2	0.0
	08/15/96	> 2000	4,100	1,018	0.0	13.2	25.5	23.2	29.4	8.5	0.2	0.0	0.0	0.0
	02/06/97		2,000	497	0.0	1.3	14.2	55.6	27.0	1.9	0.0	0.0	0.0	0.0
	08/06/97	15.2	120	30	0.0	0.2	2.1	18.2	28.7	26.1	15.5	7.4	1.8	0.0
	12/30/97		450	112	0.0	4.6	7.9	15.5	17.2	21.4	11.7	15.7	6.0	0.0
SVE-7	08/12/98		110	27	0.0	5.4	5.9	20.8	24.1	17.9	16.3	6.9	2.7	0.0
	08/15/96	> 2000	1,400	348	0.5	2.4	13.6	33.0	35.0	14.8	0.5	0.0	0.2	0.0
	02/06/97		560	139	0.0	0.9	10.6	49.8	34.5	4.2	0.0	0.0	0.0	0.0
	08/06/97	6.7	37	9	0.0	0.4	1.5	9.6	20.5	30.1	21.8	12.5	3.6	0.0
	12/30/97		70	17	0.0	2.4	11.2	29.2	24.1	19.1	8.6	3.7	1.7	0.0
SVE-8	08/15/96	> 2000	12,000	2,981	0.3	23.9	39.1	25.7	8.9	1.9	0.2	0.0	0.0	0.0
	02/06/97		890	221	0.0	4.0	16.4	45.7	28.6	5.2	0.1	0.0	0.0	0.0
	08/06/97	48.0	700	174	0.9	5.5	19.0	29.0	26.8	12.7	5.0	1.0	0.0	0.0
	12/30/97		2,500	621	0.7	3.1	13.1	25.9	23.5	22.8	8.0	2.4	0.5	0.0
	08/12/98		70	17	0.0	2.4	11.2	29.2	24.1	19.1	8.6	3.7	1.7	0.0
SVE-9	08/15/96	> 2000	5,700	1,416	6.7	18.2	24.3	31.0	15.0	4.2	0.2	0.1	0.1	0.1
	02/06/97		2,400	596	0.0	7.8	31.3	50.5	9.3	1.1	0.1	0.0	0.0	0.0
	08/06/97	132.0	7,600	1,888	0.0	3.6	40.0	27.7	19.2	8.1	1.1	0.3	0.0	0.0
	12/30/97		7,000	1,739	0.0	3.7	23.1	39.3	23.9	6.6	2.5	0.7	0.2	0.0
	08/12/98		5,900	1,466	0.0	4.7	29.0	37.4	19.1	6.9	2.2	0.6	0.1	0.0
MW-10	12/30/97		17,000	4,223	0.1	2.3	13.3	32.9	30.5	18.3	2.1	0.5	0.0	0.0
	08/12/98		13,000	3,229	0.0	4.5	6.2	27.4	41.2	13.8	5.1	1.2	0.6	0.0

**Table 4. Summary of SVE Emissions at Individual Extraction Points
TW WT-1 Compressor Station Dehy Area**

SVE Well	Date	PID Reading	Gasoline Range VOCs		< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ppmv)	(ug/L)	(ppmv) ^(a)	(%)									
Total														
(Core Lab)	02/10/97			6,240										
	03/20/97		6,600	1,639	0.0	2.7	29.3	32.1	23.2	9.2	3.0	0.4	0.1	0.0
(Core Lab)	03/20/97			1,740										
	08/06/97		5,000	1,242	0.3	4.0	21.2	34.8	25.3	10.2	3.5	0.7	0.0	0.0
	12/30/97		7,300	1,813	0.0	2.4	13.6	35.0	29.0	16.9	2.6	0.4	0.1	0.0
	08/05/98		6,500	1,615	0.0	1.3	15.4	32.2	30.5	13.7	5.2	1.3	0.4	0.0
	08/12/98		5,300	1,317	0.0	1.5	8.9	30.9	30.5	22.5	4.7	0.9	0.1	0.0
(dup)	08/12/98		5,000	1,242	0.1	1.5	8.8	31.8	32.9	18.0	5.0	1.4	0.4	0.1
	04/13/99		6,800	1,689	0.0	1.2	8.0	28.5	32.7	23.6	3.9	1.8	0.3	0.0
	12/07/99		4,800	1,192	0.1	6.2	17.6	31.8	28.8	10.0	4.2	0.9	0.2	0.2
(dup)	12/07/99		4,900	1,217	0.1	6.2	17.5	32.3	28.6	9.7	4.2	1.1	0.3	0.0
	05/22/00(b)		3,700	919	0.0	3.8	13.4	35.0	28.7	12.4	4.7	0.8	0.6	0.6
(dup)	05/22/00(b)		6,300	1,565	0.0	3.2	12.1	34.1	31.5	11.4	5.4	1.6	0.6	0.1
	06/15/00(b)		3,000	745	0.1	3.9	16.6	37.7	29.8	8.6	2.1	0.6	0.1	0.5
(dup)	06/15/00(b)		3,700	919	0.1	3.3	15.4	32.6	29.8	10.9	5.8	1.6	0.4	0.1
	08/21/00(b)		3,900	969	0.0	2.9	12.2	28.7	30.0	15.4	7.9	2.4	0.5	0.0
	06/10/02(b)		3,630	902	0.0	1.3	8.3	27.1	30.8	24.6	4.8	2.6	0.5	0.0
(dup)	06/10/02(b)		3,440	854	0.0	1.4	8.4	27.9	31.6	24.3	4.2	2.1	0.1	0.0
	08/09/02(b)		551	137	0.0	4.3	18.9	31.5	23.8	10.3	3.5	2.2	2.9	2.6
(dup)	08/09/02(b)		543	135	0.0	4.6	20.6	34.0	25.1	10.3	3.2	1.5	0.3	0.4

All air samples analyzed by Hall Laboratory of Albuquerque, NM

PID = Photoionization detector

^(a) Conversion Factor:

$P = 0.88 \text{ atm}$, $MW = 110 \text{ g/mole}$, $R = 0.08205 \text{ L} \cdot \text{atm}/(\text{K} \cdot \text{mole})$, $T = 293^\circ\text{K}$

$C \text{ ppmv} = C \text{ ug/L} \cdot ((R \cdot T)/(MW \cdot P))$

$C \text{ ppmv} = C \text{ ug/L} \cdot 0.2484$

^(b) Total Flow analysis included wells SVE-11, 12, 13, 14 & MW-10

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

Well	Source*	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 Drig/DBS	11/18/94	3557.31 (b)	-1209.40	-1254.20	60.5	na	Flush Mount	2	44-59	40.5
MW-10	Eades Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/DBS	10/05/95	3552.75 (d)	-888.70	-1245.80	55.0	55.30	Flush Mount	2	35-55	32.6
SVE-4	Eades Drig/DBS	10/04/95	3553.03 (c)	-989.20	-1359.10	55.0	na	Flush Mount	2	30-55	27.9
SVE-5	Eades Drig/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 Drig/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 Drig/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 Drig/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 Drig/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)	GP/ICES	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	GP/ICES	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	GP/ICES	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	GP/ICES	05/10/99	3554.11 (d)	-964.94	-1314.42	64.8	63.21	Flush Mount	4	47.5-62.5	42.3
SVE-14	GP/ICES	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		Benzene (ppb) Latest Result	Comments
	1st Semiannual Event	2nd Semiannual Event		
MW-9	BTEX	BTEX	< 0.5	
MW-10	BTEX	BTEX	na	contains PSH
MW-11	BTEX	BTEX	< 0.5	clean downgradient well
MW-12	BTEX	BTEX	< 0.5	clean downgradient well
MW-13	BTEX	BTEX	< 0.5	clean downgradient well
SVE-13	BTEX	BTEX	720	
SVE-14	BTEX	BTEX	3000	contains PSH intermittently

Notes:
 1) na - not available
 2) BTEX - BTEX Compounds by EPA Method 8021B



Cypress Engineering

10235 West Little York Road, Suite 256
Houston, Texas 77040

(713) 856-7980 office
(713) 856-7981 fax

January 31, 2003

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

FEB 10 2003

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: Report of Groundwater Remediation Activities
Transwestern Pipeline Company - WT-1 Station Engine Room Drain Pit Area
Lea County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for reporting of ground water remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (713) 345-1537 or Larry Campbell at (505) 625-8022.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment: Larry Campbell
Larry Johnson

Transwestern Pipeline Company
NMOCD Hobbs District Office

Report of Groundwater Remediation Activities

**Transwestern Pipeline Company
WT-1 Compressor Station
Engine Room Drain Pit Area
Lea County, New Mexico**

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

January 31, 2003

**Prepared For:
Transwestern Pipeline Company
6381 North Main Street
Roswell, NM 88201**

**Prepared by:
Cypress Engineering Services, Inc.
10235 West Little York Road, Suite 256
Houston, Texas 77040**

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1. Groundwater Monitoring Activities

1.1 Semi-Annual Groundwater Sampling Events

Two semi-annual groundwater-sampling events have been completed since the last report of remediation activities. These events were completed in February 2002 and July 2002.

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 is presented in Table 1. Similar measurements obtained from the remediation wells are presented in Table 2.

Groundwater samples were collected from selected monitoring wells at the site. Samples were not collected from wells with accumulated PSH in the well casing. Groundwater samples were delivered to a laboratory for analysis by EPA Method 8260 for volatile organic compounds, selected inorganic constituents by EPA Methods 6010 or 7470 (mercury), total dissolved solids by EPA Method 160.1, chlorides by EPA Method 325.2, nitrate and nitrite by EPA Method 353.1, and sulfate by EPA Method 375.4. A summary of field measured groundwater quality parameters (pH, temperature, electrical conductivity and dissolved oxygen) is presented in Table 3. A summary of organic and inorganic laboratory results is presented in Tables 4, 5, and 6. A copy of the laboratory results for each of the sampling events is included as an attachment to this report.

1.2 Results/Conclusions from Groundwater Sampling Events

1.2.1 *Occurrence and Direction of Groundwater Flow*

A water table elevation map based on measurements obtained in the course of the July 2002 sampling event is included as Figure 3. The apparent direction of groundwater flow is consistent with water table elevation maps previously developed for this site.

1.2.2 *Lateral Extent of Phase Separated Hydrocarbon*

The lateral extent of PSH is currently defined by the occurrence of PSH at the water table in monitor well MW-2 and the absence of PSH in all other wells. The thickness of accumulated PSH in monitor well MW-2 can not accurately be measured due to the limited depth of screened interval below the water table, however, the most recent measured thickness between the depth to PSH and the total depth of the well is on the order of 0.08 feet.

1.2.3 *Condition of Affected Groundwater*

The condition of affected groundwater, based on the recent sampling events, has not changed significantly from previous sampling events as evidenced by the information presented in Table 4 and Table 6. The primary constituents of concern are benzene, 1,1-dichloroethane, and trichloroethene. Distribution maps for BTEX, selected halogenated compounds, and selected inorganic constituents are included as Figure 4, Figure 5, and Figure 6, respectively.

2. Status of Remediation Activities

2.1 Remediation Activities Completed through December 2001

The following remediation activities have been completed since the last report of groundwater remediation activities:

- 1) Two groundwater-sampling events were completed.
- 2) A work plan was submitted to the New Mexico Oil Conservation Division for excavation and removal of affected soil in the former surface impoundment areas.

2.2 Remediation Activities Planned for January 2003 through December 2003

The excavation and removal of the affected soil in the former surface impoundment areas will be initiated upon approval of the work plan.

3. Proposed Modifications

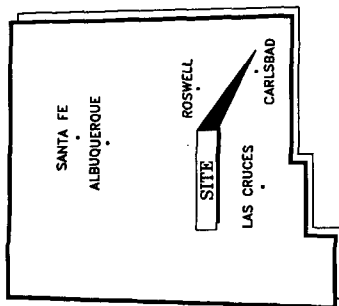
3.1 Modifications to the Routine Groundwater Sampling Plan

Sampling location, frequency and the sampling analysis plan will continue on a semi-annual basis. A summary of the sample analysis plan is presented in Table 8.

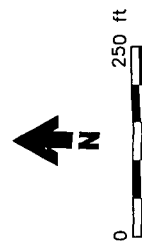
3.2 Reporting Frequency

Annual reporting will continue with the next scheduled report being submitted to the OCD by January 31, 2004.

FORMER ENGINE ROOM DRAIN AND FILTER PIT REMEDIATION AREA

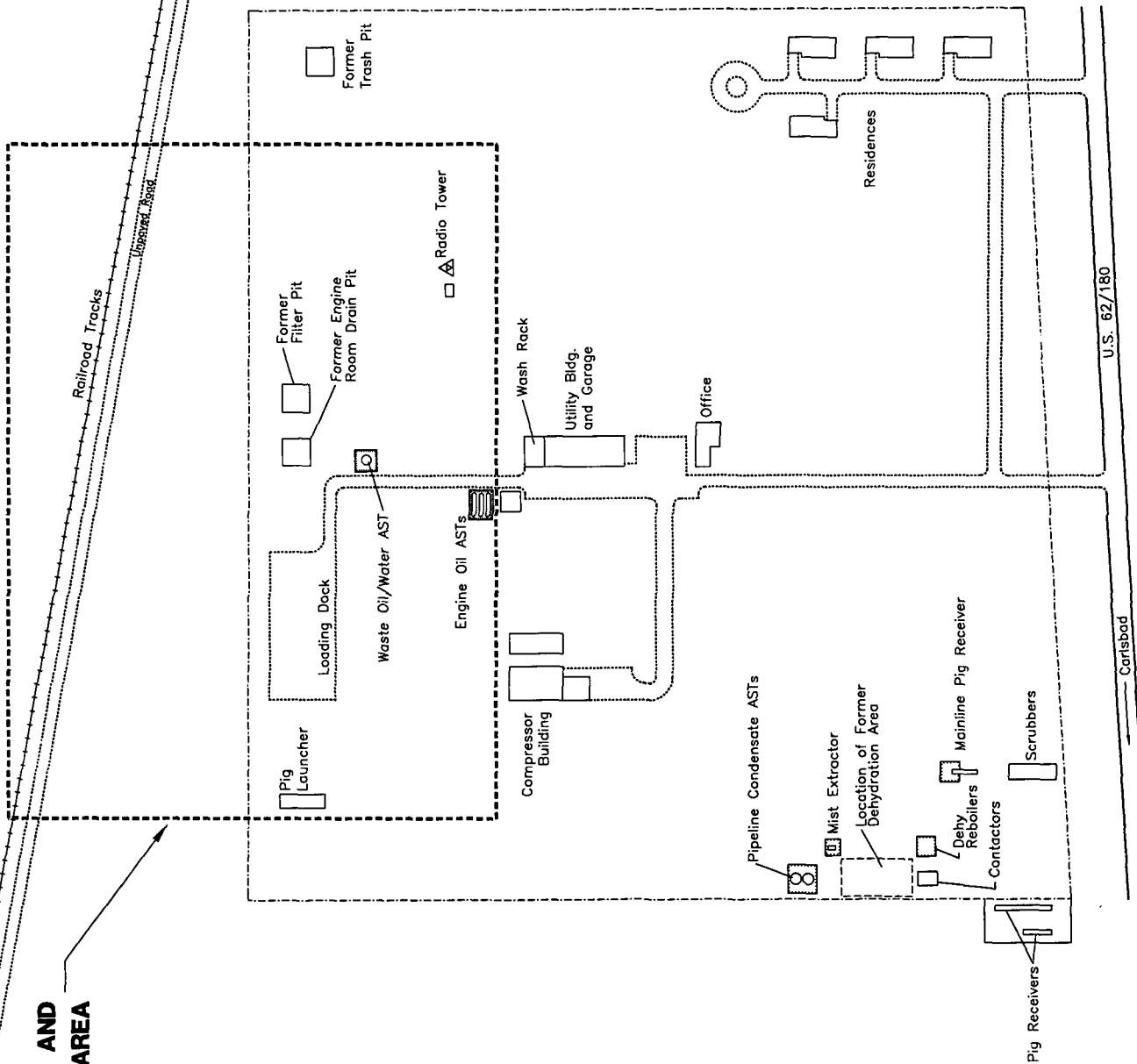


STATE OF NEW MEXICO



Explanation

- Fence
- Containment wall



Facility Site Map

WT-1 COMPRESSOR STATION
TRANSWESTERN PIPELINE COMPANY

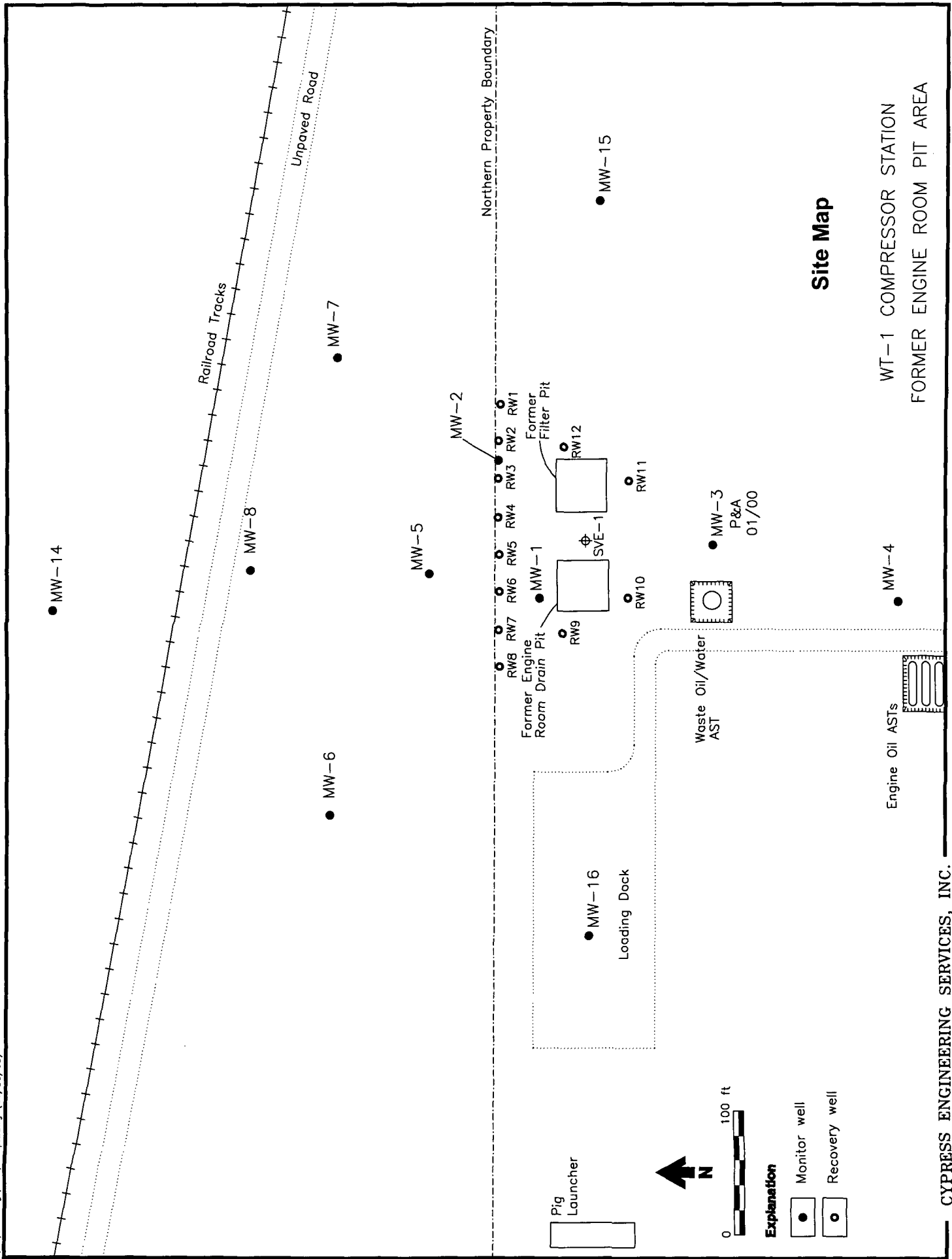


Figure 2

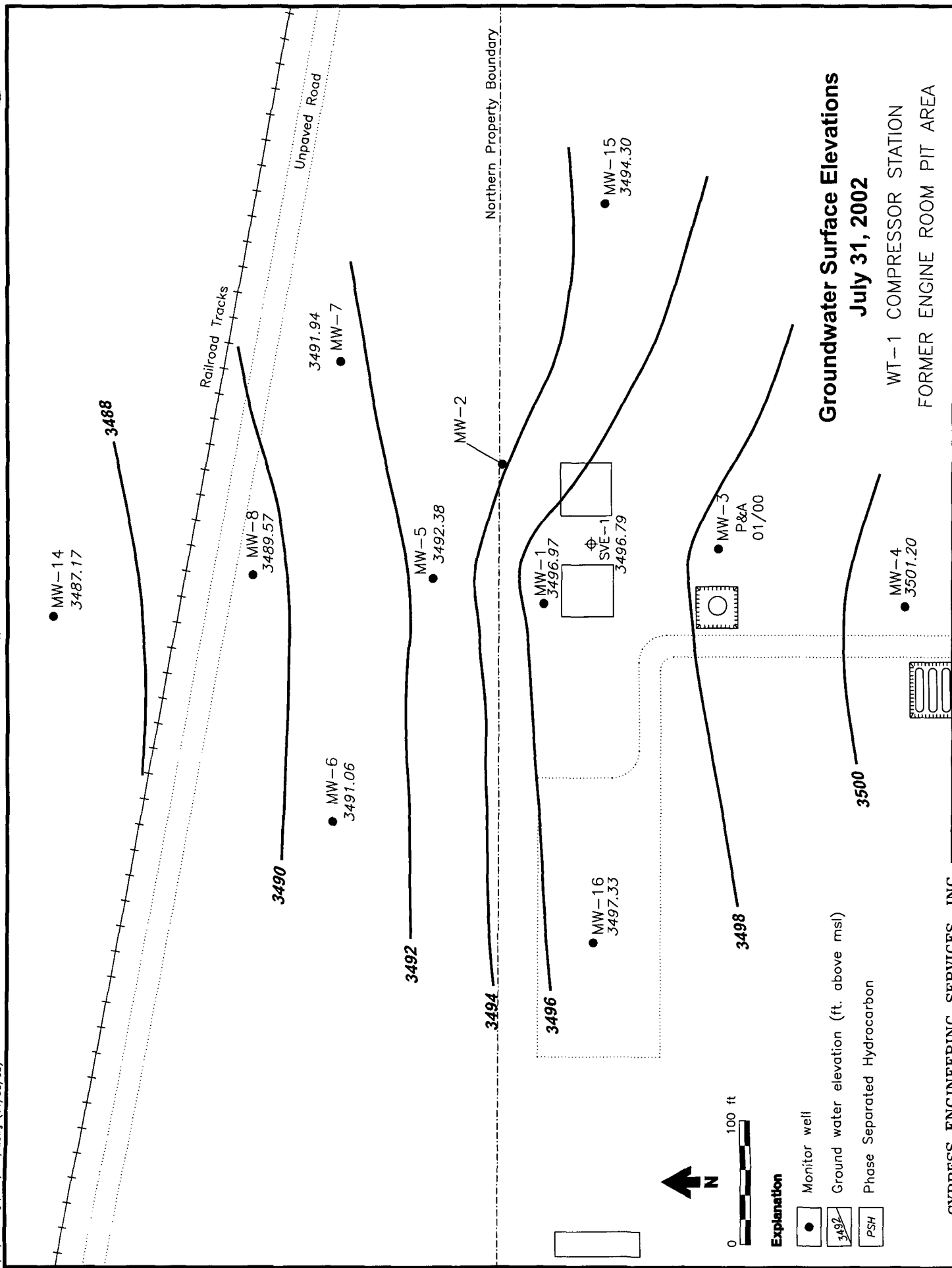


Figure 3

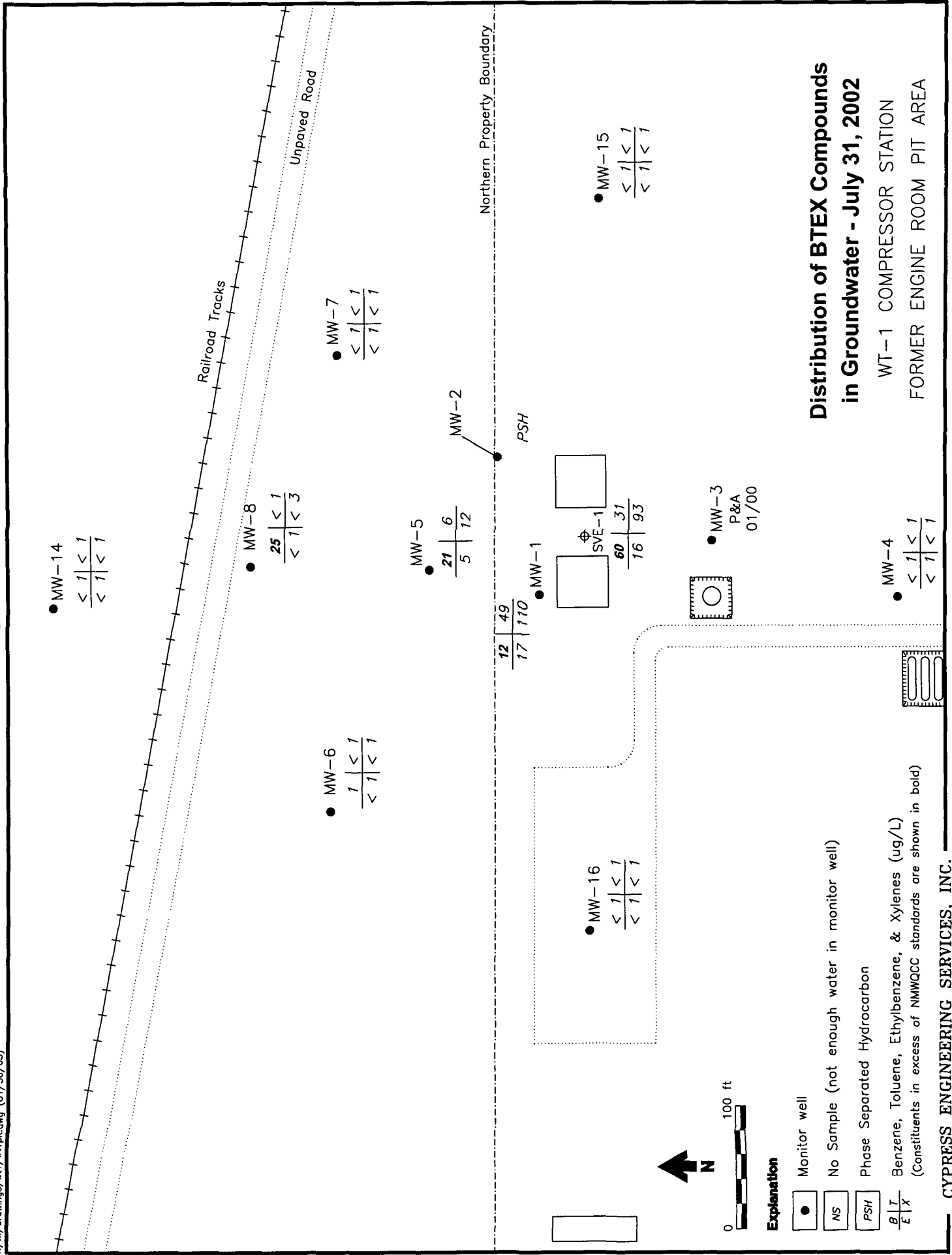


Figure 4

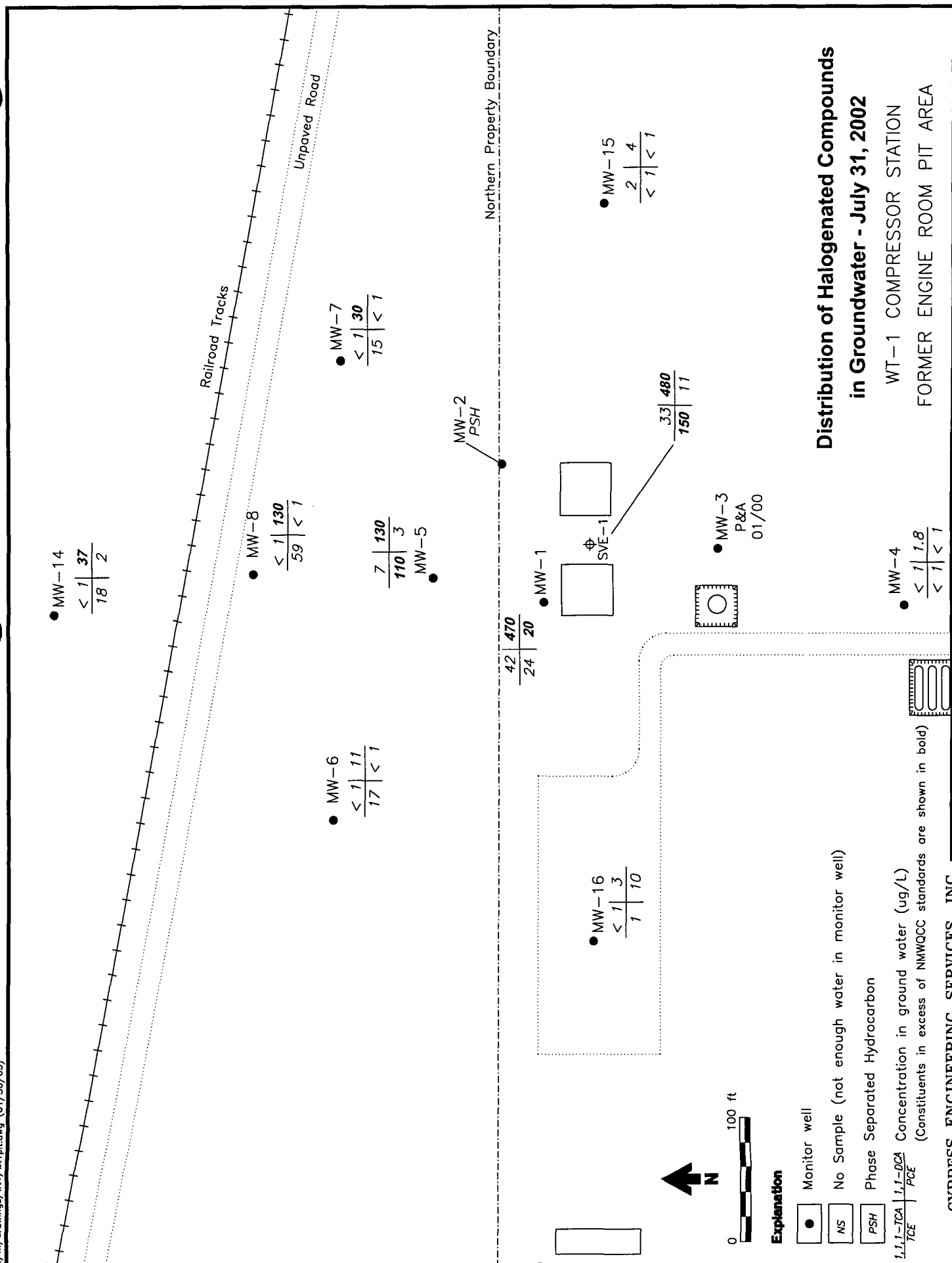


Figure 5

● MW-14
2300 | 510
0.026 | 0.31

● MW-8
1900 | 510
0.082 | 0.094

● MW-6
2700 | 740
0.11 | 0.88

● MW-7
2290 | 380
0.022 | 0.061

● MW-5
1700 | 240
14 | 0.027

MW-2
PSH

3500 | 150
33 | 0.010

● MW-1

● MW-16
3000 | 690
0.028 | 0.85

● MW-15
2000 | 340
0.045 | <0.002

● MW-3
P&A
01/00

● MW-4
2200 | 310
0.023 | 0.085



Explanation

● Monitor well

NS No Sample (not enough water in monitor well)

PSH Phase Separated Hydrocarbon

TDS | Chloride Concentration in ground water (mg/L)
Barium | Manganese (Constituents in excess of NMWQCC standards are shown in bold)

Distribution of Inorganic Constituents in Groundwater - July 31, 2002

WT-1 COMPRESSOR STATION
FORMER ENGINE ROOM PIT AREA

Figure 6

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-1	11/15/94	3547.67	(a)	47.59	(a)	3500.08
	09/14/95		(a)	48.85	(a)	3498.82
	11/12/96		(a)	49.79	(a)	3497.88
	02/04/97		(a)	49.71	(a)	3497.96
	05/10/97		(a)	49.86	(a)	3497.81
	08/06/97		(a)	49.90	(a)	3497.77
	10/08/97		(a)	49.76	(a)	3497.91
	01/21/98		(a)	50.73	(a)	3496.94
	04/15/98		(a)	49.68	(a)	3497.99
	07/16/98		(a)	49.91	(a)	3497.76
	01/26/99		(a)	49.39	(a)	3498.28
	07/08/99		(a)	49.52	sheen	3498.15
	01/26/00		(a)	49.43	sheen	3498.24
	07/17/00		(a)	50.04	sheen	3497.63
	11/21/00	3547.65 (c)	(a)	50.66	(a)	3496.99
	02/17/01		(a)	50.73	sheen	3496.92
	08/20/01		(a)	50.72	sheen	3496.93
	02/27/02		(a)	50.63	(a)	3497.02
	07/31/02		(a)	50.68	sheen	3496.97
MW-2	11/15/94	3546.28	PSH	-	-	NA
	09/12/95		PSH	-	-	NA
	11/12/96		49.91	-	NA *	NA *
	02/04/97		49.90	52.15	2.25	3495.93
	05/10/97		50.09	52.18	2.09	3495.77
	08/06/97		50.20	52.17	1.97	3495.69
	10/09/97		50.27	52.22	1.95	3495.62
	01/21/98		50.08	--	NA *	NA *
	04/15/98		49.97	--	NA *	NA *
	07/16/98		50.25	--	NA *	NA *
	01/26/99		50.10	--	NA *	NA *
	07/08/99		50.12	--	NA *	NA *
	01/26/00		50.54	52.17	1.63	3495.41
	07/17/00		50.62	--	NA *	NA *
	11/21/00	3546.28 (c)	50.95	--	NA *	NA *
	02/17/01		51.08	52.23	1.15	3494.97
	08/20/01		51.82	--	NA *	NA *
	02/27/02		51.94	--	NA *	NA *
	07/31/02		52.23	--	NA *	NA *
MW-3	11/16/94	3548.99	(a)	48.71	(a)	3500.28
	09/12/95		(a)	49.49	(a)	3499.50
	11/12/96		(a)	49.76	(a)	3499.23
	02/04/97		(a)	49.57	(a)	3499.42
	05/10/97		(a)	49.81	(a)	3499.18
	08/06/97		(a)	49.81	(a)	3499.18
	10/08/97		(a)	49.84	(a)	3499.15
	01/21/98		(a)	49.29	(a)	3499.70
	07/16/98		(a)	49.42	(a)	3499.57
	01/26/99		(a)	48.62	(a)	3500.37
	07/08/99		(a)	48.99	(a)	3500.00

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-4	12/01/94	3548.29	(a)	47.18	(a)	3501.11
	09/12/95		(a)	47.50	(a)	3500.79
	11/12/96		(a)	47.50	(a)	3500.79
	02/04/97		(a)	47.51	(a)	3500.78
	05/10/97		(a)	47.51	(a)	3500.78
	08/06/97		(a)	47.49	(a)	3500.80
	10/08/97		(a)	47.43	(a)	3500.86
	01/21/98		(a)	47.02	(a)	3501.27
	04/16/98		(a)	46.81	(a)	3501.48
	07/16/98		(a)	46.75	(a)	3501.54
	01/26/99		(a)	46.36	(a)	3501.93
	07/08/99		(a)	46.76	(a)	3501.53
	01/26/00		(a)	46.91	(a)	3501.38
	07/17/00		(a)	47.33	(a)	3500.96
	11/21/00	3548.29 (c)	(a)	47.51	(a)	3500.78
	02/17/01		(a)	47.46	(a)	3500.83
	08/20/01		(a)	47.45	(a)	3500.84
	02/27/02		(a)	47.00	(a)	3501.29
	07/31/02		(a)	47.09	(a)	3501.20
MW-5	12/01/94	3543.59	(a)	48.68	(a)	3494.91
	09/12/95		(a)	49.48	(a)	3494.11
	11/12/96		(a)	50.12	(a)	3493.47
	02/04/97		(a)	50.11	(a)	3493.48
	05/10/97		(a)	50.35	(a)	3493.24
	08/06/97		(a)	50.40	(a)	3493.19
	10/08/97		(a)	50.18	(a)	3493.41
	01/21/98		(a)	50.13	(a)	3493.46
	04/15/98		(a)	50.15	(a)	3493.44
	07/16/98		(a)	50.45	(a)	3493.14
	01/26/99		(a)	50.04	(a)	3493.55
	07/08/99		(a)	50.21	(a)	3493.38
	01/26/00		(a)	50.07	(a)	3493.52
	07/17/00		(a)	50.53	(a)	3493.06
	11/21/00	3543.60 (c)	(a)	50.98	(a)	3492.62
	02/17/01		(a)	51.04	(a)	3492.56
	08/20/01		(a)	51.09	(a)	3492.51
	02/27/02		(a)	51.17	(a)	3492.43
	07/31/02		(a)	51.22	(a)	3492.38
MW-6	11/30/94	3543.29	(a)	50.22	(a)	3493.07
	09/12/95		(a)	50.97	(a)	3492.32
	11/12/96		(a)	51.93	(a)	3491.36
	02/04/97		(a)	51.93	(a)	3491.36
	05/10/97		(a)	52.08	(a)	3491.21
	08/06/97		(a)	52.11	(a)	3491.18
	10/08/97		(a)	51.88	(a)	3491.41
	01/21/98		(a)	51.72	(a)	3491.57
	04/15/98		(a)	51.63	(a)	3491.66
	07/16/98		(a)	51.87	(a)	3491.42
	01/26/99		(a)	51.39	(a)	3491.90
	07/08/99		(a)	51.65	(a)	3491.64
	01/26/00		(a)	51.59	(a)	3491.70

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-7	07/17/00	3543.33 (c)	(a)	52.11	(a)	3491.18
	11/21/00		(a)	52.64	(a)	3490.69
	02/17/01		(a)	52.74	(a)	3490.59
	08/20/01		(a)	52.68	(a)	3490.65
	02/27/02		(a)	52.46	(a)	3490.87
	07/31/02		(a)	52.27	(a)	3491.06
	11/30/94	3541.97	(a)	47.67	(a)	3494.30
	09/12/95		(a)	48.54	(a)	3493.43
	11/12/96		(a)	48.67	(a)	3493.30
	02/04/97		(a)	48.83	(a)	3493.14
	05/10/97		(a)	49.05	(a)	3492.92
	08/06/97		(a)	48.96	(a)	3493.01
	10/08/97		(a)	48.74	(a)	3493.23
	01/21/98		(a)	48.65	(a)	3493.32
	04/15/98		(a)	48.71	(a)	3493.26
	07/16/98		(a)	49.12	(a)	3492.85
	01/26/99		(a)	48.70	(a)	3493.27
	07/08/99		(a)	48.96	(a)	3493.01
	01/26/00		(a)	48.72	(a)	3493.25
	07/17/00		(a)	49.25	(a)	3492.72
	11/21/00	3542.00 (c)	(a)	50.18	(a)	3491.82
	02/17/01		(a)	49.82	(a)	3492.18
	08/20/01		(a)	50.21	(a)	3491.79
	02/27/02		(a)	49.86	(a)	3492.14
	07/31/02		(a)	50.06	(a)	3491.94
	11/30/94	3541.47	(a)	49.20	(a)	3492.27
MW-8	09/13/95		(a)	50.14	(a)	3491.33
	11/12/96		(a)	50.73	(a)	3490.74
	02/04/97		(a)	50.79	(a)	3490.68
	05/10/97		(a)	51.03	(a)	3490.44
	08/06/97		(a)	51.08	(a)	3490.39
	10/08/97		(a)	50.90	(a)	3490.57
	01/21/98		(a)	50.73	(a)	3490.74
	04/15/98		(a)	49.62	(a)	3491.85
	07/16/98		(a)	50.96	(a)	3490.51
	01/26/99		(a)	50.55	(a)	3490.92
	07/08/99		(a)	50.84	(a)	3490.63
	01/26/00		(a)	50.72	(a)	3490.75
	07/17/00		(a)	51.23	(a)	3490.24
	11/21/00	3541.49 (c)	(a)	51.75	(a)	3489.74
	02/17/01		(a)	51.93	(a)	3489.56
	08/20/01		(a)	51.89	(a)	3489.60
	02/27/02		(a)	51.88	(a)	3489.61
	07/31/02		(a)	51.92	(a)	3489.57
MW-14	09/13/95	3539.71	(a)	51.53	(a)	3488.18
	11/12/96		(a)	51.96	(a)	3487.75
	02/04/97		(a)	52.00	(a)	3487.71
	05/10/97		(a)	52.12	(a)	3487.59
	08/06/97		(a)	52.11	(a)	3487.60
	10/08/97		(a)	51.95	(a)	3487.76

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-15	01/21/98	3539.73 (c)	(a)	51.88	(a)	3487.83
	04/15/98		(a)	51.83	(a)	3487.88
	07/16/98		(a)	52.09	(a)	3487.62
	01/26/99		(a)	51.72	(a)	3487.99
	07/08/99		(a)	51.95	(a)	3487.76
	01/26/00		(a)	51.77	(a)	3487.94
	07/17/00		(a)	52.17	(a)	3487.54
	11/21/00		(a)	52.60	(a)	3487.13
	02/17/01		(a)	53.69	(a)	3486.04
	08/20/01		(a)	52.61	(a)	3487.12
	02/27/02		(a)	52.55	(a)	3487.18
	07/31/02		(a)	52.56	(a)	3487.17
	09/14/95	3542.82	(a)	46.43	(a)	3496.39
	11/12/96		(a)	46.61	(a)	3496.21
	02/04/97		(a)	46.90	(a)	3495.92
	05/10/97		(a)	47.23	(a)	3495.59
	08/06/97		(a)	46.97	(a)	3495.85
	10/08/97		(a)	46.75	(a)	3496.07
	01/21/98		(a)	46.62	(a)	3496.20
	04/15/98		(a)	46.81	(a)	3496.01
	07/16/98		(a)	47.24	(a)	3495.58
	01/26/99		(a)	46.71	(a)	3496.11
	07/08/99		(a)	46.99	(a)	3495.83
	01/26/00		(a)	46.88	(a)	3495.94
	07/17/00		(a)	47.54	(a)	3495.28
	11/21/00	3542.82 (c)	(a)	48.06	(a)	3494.76
	02/17/01		(a)	48.24	(a)	3494.58
	08/20/01		(a)	48.39	(a)	3494.43
	02/27/02		(a)	48.37	(a)	3494.45
	07/31/02		(a)	48.52	(a)	3494.30
MW-16	09/14/95	3546.01	(a)	48.86	(a)	3497.15
	11/12/96		(a)	49.42	(a)	3496.59
	02/04/97		(a)	49.41	(a)	3496.60
	05/10/97		(a)	49.51	(a)	3496.50
	08/06/97		(a)	49.57	(a)	3496.44
	10/08/97		(a)	49.36	(a)	3496.65
	01/21/98		(a)	49.00	(a)	3497.01
	04/15/98		(a)	48.84	(a)	3497.17
	07/16/98		(a)	49.02	(a)	3496.99
	01/26/99		(a)	48.46	(a)	3497.55
	07/08/99		(a)	48.79	(a)	3497.22
	01/26/00		(a)	48.96	(a)	3497.05
	07/17/00		(a)	49.18	(a)	3496.83
	11/21/00	3545.68 (c)	(a)	49.65	(a)	3496.03
	02/17/01		(a)	49.73	(a)	3495.95
	08/20/01		(a)	49.62	(a)	3496.06
	02/27/02		(a)	49.78	(a)	3495.90
	07/31/02		(a)	48.35	(a)	3497.33
SVE-1A	01/26/00	3545.58	(a)	47.33	(a)	3498.25
	07/17/00		(a)	47.95	(a)	3497.63

**Table 1. Summary of Groundwater Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
	11/21/00	3545.59 (c)	(a)	48.56	(a)	3497.03
	02/17/01		(a)	48.71	(a)	3496.88
	08/20/01		(a)	48.90	(a)	3496.69
	02/27/02		(a)	48.73	(a)	3496.86
	07/31/02		(a)	48.80	(a)	3496.79

NOTES:

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

(b) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.88 (0.80 used for 07/17/00 and prior)

(c) Survey by John West Surveying Co. on October 31, 2000.

NA* - No PSH/water interface detected

**Table 2. Summary of Groundwater Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-1	11/21/00*	3545.97 (c)	51.86	51.87	0.01	3494.11
	11/30/00		(a)	51.67	sheen	3494.30
	12/06/00		(a)	51.91	sheen	3494.06
	01/25/01		(a)	51.78	sheen	3494.19
	02/06/01		51.67	51.68	0.01	3494.30
	02/17/01*		52.07	52.08	0.01	3493.90
	02/23/01		(a)	51.50	sheen	3494.47
	03/09/01		(a)	51.61	sheen	3494.36
	08/20/01		(a)	52.18	sheen	3493.79
	02/27/02		(a)	52.22	sheen	3493.75
	07/31/02		(a)	52.68	(a)	3493.29
RW-2	11/21/00*	3546.26 (c)	(a)	52.18	(a)	3494.08
	11/30/00		(a)	51.96	(a)	3494.30
	12/06/00		(a)	52.61	sheen	3493.65
	01/25/01		(a)	52.05	sheen	3494.21
	02/06/01		(a)	51.94	sheen	3494.32
	02/17/01*		(a)	52.38	sheen	3493.88
	02/23/01		(a)	51.75	sheen	3494.51
	03/09/01		(a)	51.80	sheen	3494.46
	08/20/01		(a)	52.42	sheen	3493.84
	02/27/02		(a)	52.46	(a)	3493.80
	07/31/02		(a)	52.68	(a)	3493.58
RW-3	11/21/00*	3546.41 (c)	52.27	52.29	0.02	3494.14
	11/30/00		52.02	52.07	0.05	3494.38
	12/06/00		52.12	52.13	0.01	3494.29
	01/25/01		52.13	52.19	0.06	3494.27
	02/06/01		51.92	52.00	0.08	3494.47
	02/17/01*		52.41	52.43	0.02	3494.00
	02/23/01		51.80	51.83	0.03	3494.60
	03/09/01		51.81	51.84	0.03	3494.59
	03/30/01		50.92	50.94	0.02	3495.49
	08/20/01		(a)	52.42	(a)	3493.99
	02/27/02		(a)	52.58	sheen	3493.83
	07/31/02		(a)	52.46	(a)	3493.95
RW-4	11/21/00*	3546.96 (c)	(a)	52.45	(a)	3494.51
	11/30/00		(a)	52.20	sheen	3494.76
	12/06/00		(a)	52.33	(a)	3494.63
	01/25/01		(a)	52.29	(a)	3494.67
	02/06/01		(a)	52.09	(a)	3494.87
	02/17/01*		(a)	52.52	(a)	3494.44
	02/23/01		(a)	51.97	(a)	3494.99
	03/09/01		(a)	52.01	(a)	3494.95
	03/30/01		(a)	52.06	sheen	3494.90
	08/20/01		(a)	52.55	(a)	3494.41
	02/27/02		(a)	52.75	(a)	3494.21
	07/31/02		(a)	52.77	(a)	3494.19
RW-5	11/21/00*	3546.75 (c)	(a)	50.76	(a)	3495.99
	11/30/00		(a)	50.56	(a)	3496.19
	12/06/00		(a)	50.78	sheen	3495.97

**Table 2. Summary of Groundwater Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-6	01/25/01	3546.69 (c)	(a)	50.64	(a)	3496.11
	02/06/01		(a)	50.54	(a)	3496.21
	02/17/01*		(a)	50.98	(a)	3495.77
	02/23/01		(a)	50.39	(a)	3496.36
	03/09/01		(a)	50.44	(a)	3496.31
	03/30/01		(a)	50.60	(a)	3496.15
	08/20/01		(a)	50.95	(a)	3495.80
	02/27/02		(a)	51.03	(a)	3495.72
	07/31/02		(a)	51.12	(a)	3495.63
	11/21/00*		(a)	50.72	(a)	3495.97
	11/30/00		(a)	50.47	(a)	3496.22
	12/06/00		(a)	50.71	sheen	3495.98
	01/25/01		(a)	50.53	(a)	3496.16
	02/06/01		(a)	50.32	(a)	3496.37
	02/17/01*		(a)	50.87	(a)	3495.82
	02/23/01		(a)	50.20	(a)	3496.49
	03/09/01		(a)	50.27	(a)	3496.42
	03/30/01		(a)	50.39	(a)	3496.30
	08/20/01		(a)	50.82	(a)	3495.87
	02/27/02		(a)	50.85	(a)	3495.84
	07/31/02		(a)	50.83	(a)	3495.86
RW-7	11/21/00*	3547.50 (c)	(a)	51.27	(a)	3496.23
	11/30/00		(a)	51.01	(a)	3496.49
	12/06/00		(a)	51.22	sheen	3496.28
	01/25/01		(a)	51.10	(a)	3496.40
	02/06/01		(a)	50.92	sheen	3496.58
	02/17/01*		(a)	51.42	(a)	3496.08
	02/23/01		(a)	50.77	(a)	3496.73
	03/09/01		(a)	50.76	(a)	3496.74
	03/30/01		(a)	50.93	(a)	3496.57
	08/20/01		(a)	51.35	(a)	3496.15
	02/27/02		(a)	51.44	(a)	3496.06
	07/31/02		(a)	51.34	(a)	3496.16
RW-8	11/21/00*	3547.04 (c)	(a)	50.20	(a)	3496.84
	11/30/00		(a)	50.06	sheen	3496.98
	12/06/00		(a)	50.28	(a)	3496.76
	01/25/01		(a)	50.14	(a)	3496.90
	02/06/01		(a)	50.05	sheen	3496.99
	02/17/01*		(a)	50.42	(a)	3496.62
	02/23/01		(a)	49.95	(a)	3497.09
	03/09/01		(a)	50.01	(a)	3497.03
	03/30/01		(a)	50.09	(a)	3496.95
	08/20/01		(a)	50.40	(a)	3496.64
	02/27/02		(a)	50.27	(a)	3496.77
	07/31/02		(a)	50.19	(a)	3496.85
RW-9	11/21/00*	3545.84 (c)	(a)	48.41	(a)	3497.43
	11/30/00		(a)	48.17	sheen	3497.67
	12/06/00		(a)	43.42	(a)	3502.42
	01/25/01		(a)	48.25	(a)	3497.59

**Table 2. Summary of Groundwater Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-10	02/06/01		(a)	48.12	(a)	3497.72
	02/17/01*		(a)	48.60	(a)	3497.24
	02/23/01		(a)	47.94	(a)	3497.90
	03/09/01		(a)	47.99	(a)	3497.85
	08/20/01		(a)	48.52	(a)	3497.32
	02/27/02		(a)	48.37	(a)	3497.47
	07/31/02		(a)	48.39	(a)	3497.45
	11/21/00*	3546.32 (c)	(a)	48.36	(a)	3497.96
	11/30/00		(a)	48.13	(a)	3498.19
	12/06/00		(a)	48.40	(a)	3497.92
	01/25/01		(a)	48.43	(a)	3497.89
	02/06/01		(a)	48.11	(a)	3498.21
	02/17/01*		(a)	48.60	(a)	3497.72
	02/23/01		(a)	47.92	(a)	3498.40
	03/09/01		(a)	50.01	(a)	3496.31
	08/20/01		(a)	48.57	(a)	3497.75
	02/27/02		(a)	48.33	(a)	3497.99
	07/31/02		(a)	48.39	(a)	3497.93
RW-11	11/21/00*	3545.74 (c)	(a)	48.51	(a)	3497.23
	11/30/00		(a)	48.01	(a)	3497.73
	12/06/00		(a)	48.55	(a)	3497.19
	01/25/01		(a)	48.24	(a)	3497.50
	02/06/01		(a)	48.30	(a)	3497.44
	02/17/01*		(a)	48.76	(a)	3496.98
	02/23/01		(a)	48.12	(a)	3497.62
	03/09/01		(a)	48.19	(a)	3497.55
	08/20/01		(a)	48.90	(a)	3496.84
	02/27/02		(a)	48.74	(a)	3497.00
	07/31/02		(a)	48.92	(a)	3496.82
RW-12	11/21/00*	3544.43 (c)	(a)	49.44	(a)	3494.99
	11/30/00		(a)	49.11	(a)	3495.32
	12/06/00		(a)	49.17	(a)	3495.26
	01/25/01		(a)	49.53	(a)	3494.90
	02/06/01		(a)	49.24	(a)	3495.19
	02/17/01*		(a)	49.70	(a)	3494.73
	02/23/01		(a)	49.07	(a)	3495.36
	03/09/01		(a)	49.14	(a)	3495.29
	08/20/01		(a)	49.77	(a)	3494.66
	02/27/02		(a)	49.74	(a)	3494.69
	07/31/02		(a)	49.95	(a)	3494.48

NOTES:

- (a) Not applicable since no measurable thickness of hydrocarbon is present
- (b) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.88 (0.80 used for 07/17/00 and prior)
- (c) Survey by John West Surveying Co. on October 31, 2000.

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
MW-1	11/12/96	0.0	6.67	22.2	--	--	strong mercaptin odor, bailed dry 1 gal
	02/04/97	0.0	6.70	17.3	3,100	39.3/127	strong odor, blk color, bailed dry 1 gal
	05/10/96	--	6.92	21.8	3,110	62.0	strong odor, blk/gry color
	08/08/97	0.0	6.88	20.3	3,260	101	clear to gray, strong odor
	10/09/97	1.2	6.89	21.6	3,080	--	gray blk, strong odor
	01/23/98	0.0	6.65	17.1	2,970	--	strong odor, amber color
	04/17/98	0.9	6.96	19.9	3,070	58.0	clear, gold tint, strong odor
	07/17/98	0.1	6.91	22.4	3,400	9.97	clear, light tint, strong odor
	01/27/99	--	6.81	20.8	3,020	--	clear, odor
	08/21/01	0.8	6.78	23.4	2,380	--	gray odor, pumped dry @ 1 gallon purged
	03/01/02	1.2/0.2	7.06	21.6	2,940	--	clear, odor
	08/01/02	1.0	7.04	27.2	2,960	6.77	clear, odor
MW-4	11/12/96	--	7.10	20.8	--	--	clear, no odor
	02/04/97	4.0	7.17	17.5	3,400	41.8/32	fine red silt, no odor
	05/10/97	3.0	7.09	19.7	3,400	5.46	very slight brn silt, mostly clear
	08/08/97	3.5	7.02	21.7	3,390	45.2	red silty
	10/08/97	3.0	7.05	21.5	3,060	--	slightly silty, light gold to brown
	01/23/98	0.6/0.8	7.11	18.7	2,640	--	clear
	04/16/98	1.8/0.4	7.00	21.1	2,720	2.5	clear
	07/16/98	1.3/0.8	6.99	21.6	3,090	0.67	clear
	01/26/99	1.2	7.01	19.1	2,740	--	clear
	07/08/99	3.3/1.4	7.12	21.0	3,050	0.76	clear, no odor
	01/27/00	--	7.03	19.1	3,070	--	clear
	07/17/00	2.6/2.6	7.06	20.6	3,100	3.49	clear
	02/17/01	3.5	7.07	20.5	3,130	--	clear
	08/21/01	3.1	6.96	20.3	3,010	--	clear
	02/28/02	0.7	7.01	21.1	2,860	--	clear
	08/01/02	1.2	7.03	23.5	3,000	1.19	clear
MW-5	11/12/96	--	7.00	23.1	--	--	strong odor, bailed dry 3.5 gal
	02/06/97	0.6	7.17	15.7	3,600	303/2040	strong odor, silty, foamy
	05/10/96	0.8	7.25	20.7	3,500	295	strong odor, red-yellow color, bailed dry 3.5g
	08/07/97	4.9	7.47	20.7	2,810	173	silty, red
	10/09/97	0.2	7.12	22.9	2,970	--	red silty, strong odor
	01/24/98	0.8	7.14	18.7	2,870	31.1	clear, amber color, strong odor
	04/17/98	0.6	7.16	20.2	2,840	52.0	clear, amber tint, strong odor
	07/17/98	0.7	7.02	22.5	3,140	43.18	foamy, light tint, strong odor
	01/27/99	0.6	7.10	20.5	2,700	--	clear, odor
	07/08/99	0.9/0.4	7.11	21.5	2,780	36.98	clear, light amber tint
	01/27/00	--	7.06	19.9	2,820	--	clear, strong odor
	07/18/00	0.0	7.12	23.5	2,800	25.00	clear, amber tint, odor
	02/18/01	0.9	7.13	19.5	2,760	--	clear, amber tint, odor
	08/21/01	1.0	7.01	23.7	2,410	--	grayblack, strong odor
	03/01/02	1.0	7.23	20.6	2,610	--	clear, amber tint, odor
	08/01/02	1.0	7.16	26.2	2,680	6.62	clear, odor
MW-6	11/12/96	--	--	21.6	--	--	red silty
	02/04/97	2.0	6.56	17.0	3,800	279/600	fine red silt, no odor
	05/10/97	1.8	6.96	21.7	3,800	234	red silty
	08/07/97	1.8	6.89	20.2	3,730	173	red silty
	10/09/97	1.7	6.89	19.3	3,510	--	red silty
	01/23/98	0.6	6.81	19.7	3,460	--	slightly turbid
	04/16/98	0.4	6.87	19.1	3,470	15.36	clear
	07/16/98	2.9/1.6	6.84	22.6	3,810	5.37	clear, took 4 cycles to get final parameters
	01/27/99	1.1	6.79	19.6	3,550	--	clear, odor
	07/08/99	1.8/1.0	6.85	21.2	3,760	4.64	clear, slight odor, took 4 cycles to get final parameters
	01/27/00	--	6.85	19.3	3,800	--	clear, slight odor
	07/18/00	0.5	6.87	21.9	3,790	1.54	clear, slight odor
	02/18/01	1.5	6.88	20.2	3,800	--	clear
	08/21/01	1.5	6.68	22.9	3,560	--	clear with odor
	02/28/02	1.3	6.88	21.6	3,810	--	clear
	08/01/02	1.5	6.89	24.6	3,830	3.57	clear
MW-7	11/12/97	--	7.16	23.6	--	--	red silty
	02/04/97	2.0	6.89	--	2,900	539/2080	fine red silt, no odor

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
	05/10/97	2.0	7.17	21.1	2,970	>1000	red silty/sandy
	08/07/97	2.0	7.18	20.2	2,970	18.8	slight red silt
	10/09/97	2.6	7.20	19.6	2,750	—	red silty
	01/23/98	1.1/1.6	7.10	18.7	2,730	—	clear
	04/17/98	2.5/2.6	7.21	18.0	2,720	1.64	clear
	07/16/98	3.5	7.12	21.7	2,970	1.81	clear
	01/27/99	2.6	7.10	19.9	2,740	—	clear
	07/08/99	3.4	7.16	20.7	2,850	1.12	clear
	01/27/00	—	7.13	18.9	2,840	—	clear
	07/18/00	2.3	7.22	21.9	2,780	1.98	clear
	02/18/01	2.8	7.18	19.8	2,790	—	clear
	08/21/01	4.0	7.11	22.5	2,660	—	clear
	02/28/02	2.5	7.21	20.6	2,800	—	clear
	08/01/02	—	—	—	—	—	turbid, pulled pump and bailed
MW-8	11/12/96	—	6.91	22.1	—	—	very fine red silt,
	02/06/97	2.0	6.95	14.1	3,000	<1000/590	red, silty, no odor
	05/10/97	1.6	7.00	22.0	3,040	193	red silt/sand
	08/07/97	1.1	6.97	20.1	3,040	237	red silt
	10/09/97	2.9	6.95	20.8	2,800	—	red silty
	01/24/98	0/0.2	6.90	19.0	2,810	26.17	Lt. amber color, clear
	04/17/98	0.9	6.97	19.2	2,860	25.46	clear, Lt. amber color
	07/17/98	0.2/0.0	6.85	22.5	3,070	4.10	clear, odor
	01/27/99	0.8/0.0	6.84	19.4	2,830	—	clear, odor
	07/08/99	1.9	6.87	22.1	2,950	2.79	clear
	01/27/00	—	6.87	19.2	2,960	—	clear, odor
	07/18/00	0.8	6.95	22.6	2,910	6.70	clear, odor
	02/18/01	1.2	6.91	20.3	2,910	—	clear
	08/21/01	1.2	6.82	22.3	2,730	—	clear
	02/28/02	1.6	6.96	20.3	2,900	—	clear
	08/01/02	1.4	6.95	25.6	2,880	2.61	clear
MW-14	11/12/96	—	7.07	19.9	—	—	mostly clear, slight silt
	02/04/97	3.0	7.06	15.3	3,600	70.1/92	clear initially, red silty, no odor
	05/10/97	2.0	7.04	21.2	3,390	16.2	slight red sand/silt
	08/07/97	1.0	7.09	20.4	3,340	2.8	clear
	10/08/97	1.5	6.74	20.7	3,170	—	clear
	01/23/98	0.7	6.97	17.5	3,150	—	clear
	04/17/98	1.2	7.08	21.1	3,180	0.79	clear
	07/17/98	0.6	6.94	21.8	3,520	2.25	clear
	01/27/99	—	6.92	19.9	3,260	—	clear
	07/08/99	1.3	6.96	20.9	3,460	0.87	clear
	01/27/00	—	6.96	19.5	3,420	—	clear
	07/18/00	0.2/0.6	7.00	20.9	3,330	1.65	clear
	02/18/01	0.9	6.98	20.3	3,350	—	clear
	08/21/01	3.5	7.10	22.3	2,690	—	clear
	02/28/02	2.2	7.03	21.5	3,340	—	clear
	08/01/02	1.4	7.03	24.2	3,330	1.32	clear
MW-15	11/12/96	—	7.21	24.6	—	—	clear
	02/04/97	8.0	6.90	18.3	3,200	34.5/133	fine red silt, no odor
	05/10/97	—	7.28	20.0	3,230	63.1	silty red sand
	08/07/97	7.4	7.13	20.5	3,160	159	red silt
	10/08/97	7.4	7.26	21.0	2,900	—	red sand/ fine silt
	01/23/98	5.2	7.24	18.8	2,930	—	turbid
	04/16/98	4.9	7.13	19.4	2,940	5.69	clear
	07/17/98	5.8/5.0	7.04	22.1	3,210	11.05	clear
	01/26/99	4.5	7.08	19.4	2,830	—	clear
	07/08/99	6.1	7.08	20.2	2,840	11.34	clear
	01/27/00	—	7.11	18.9	2,850	—	clear
	07/17/00	5.6	7.07	20.6	2,750	5.62	clear
	02/17/01	5.4	7.13	19.9	2,750	—	clear
	08/21/01	5.6	7.06	20.6	2,600	—	clear
	02/28/02	4.9	7.19	21.4	2,770	—	clear
	08/01/02	5.0	7.20	23.1	2,750	1.74	clear
MW-16	11/12/96	—	6.7	22.7	—	—	mostly clear, slight red silt

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
	02/04/97	4.0	6.49	17.2	4,900	139/830	fine red silt, no odor
	05/10/97	1.4	6.91	20.1	4,800	203	red sand/silt
	08/06/97	3.3	6.87	21.3	4,540	670	very silty, red
	10/08/97	3.3	6.88	21.3	4,190	--	red silty
	01/23/98	1.9	6.84	18.6	3,940	--	slightly turbid
	04/16/98	1.4/1.0	6.88	20.8	3,990	1.27	clear
	07/16/98	2.2	6.81	21.2	4,380	0.43	clear
	01/26/99	1.3	6.82	19.5	3,980	--	clear
	07/08/99	1.6/1.0	6.84	20.7	4,520	0.80	clear, no odor
	01/27/00	--	6.80	19.3	4,540	--	clear
	07/17/00	0.9	6.83	20.7	4,520	2.12	clear
	02/17/01	2.0	6.85	20.0	4,230	--	clear
	08/21/01	1.1	6.73	20.6	4,030	--	clear
	02/28/02	1.6	6.89	21.6	4,090	--	clear
	08/01/02	1.4	6.90	23.2	4,300	3.71	clear
SVE-1A	01/26/00	--	7.07	18.2	2,800	--	turbid, odor
	07/18/00	0.0	7.09	21.3	2,890	--	turbid, odor
	02/18/01	--	--	--	--	--	turbid, odor, insufficient h2o for parameters
	08/21/01	1.3	7.09	21.4	2420.0	--	grayblack, strong odor, bailed dry @ 0.75 gallons
	03/01/02	1.3	7.25	21.9	2820.0	--	red, turbid, odor
	08/01/02	--	--	--	--	--	turbid, odor, insufficient h2o for parameters

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
MW-1	11/15/94	12 ^a	100 ^a	10 ^a	110 ^a	na	na	<2.0 ^a	690 ^a	6.7 ^a	2.2 ^a	2.8 ^a	420 ^a	na	na	16 ^a	<2.0 ^a	28 ^a	<2.0 ^a
	09/14/95	13	90	8	110	2000	400	<10	<5	730	13	9	na	170	1800	19	57	24	<10
	11/12/96	9	66	<5	39	630	100	<10	<5	480	9	<5	na	88	1500	12	<5	20	<10
	02/04/97	13	94	8	80	790	300	<10	<5	480	10	<5	<5	89 ^b	1700	9	<5	29	11
	05/10/97	10	75	6	45	470	<100	<10	<5	470	9	<5	<5	<50	1000	8	9	20	<10
	08/07/97	<50	<50	<50	<50	1100	1100	<50	<50	590	<50	<50	<50	200	1200	<50	<50	<50	<100
	10/09/97	<50	132	<50	97	1660	<1000	<100	<50	597	<50	<50	<50	221 ^b	1650	<50	<50	<50	<100
	01/23/98	11	82	7	85	2300	93	<10	<5	530	<5	<5	<5	230	2000	8	<5	24	<10
	04/17/98	11	84	7	85	2100	52	<10	<5	480	8	<5	<5	360	1600	6	<5	24	<10
	04/17/98	14	93	8	96	2400	100	11	<5	460	11	<5	<5	230	2100	8	<5	30	<10
	Dup (MW-17)	07/17/98	15	93	8	97	<2000	98	<10	<5	820	8	12	<5	330	1800	14	93	21
01/27/99		15	58	9	93	330	120	4	<1	460	8	4	3	310	2100	10	18	26	<2
08/21/01		12.8	62.7	6.5	92.8	198	71.3	3.25	<1	791	6.89	20	4.1	133	1200	28.1	147	18.8	2.65
03/01/02		<50.0	51.4	<50.0	50.2	<500	<250	<50.0	<50.0	544	<50.0	<50.0	<50.0	<250	1750	<50.0	<50.0	<50.0	<50.0
08/01/02		12	49	<10	81	<1300	<2500	<10	<10	470	<10	12	<10	84	1900	20	42	24	<20
MW-3	11/16/94	5	<0.5	<0.5	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-4	12/01/94	<0.5	<0.5	<0.5	<0.5	na	na	<0.2	7.6	0.9	<0.2	4.7	<0.2	<2.0	na	0.5	<0.2	<0.2	<0.2
	09/12/95	<1	<5	<5	<5	<100	<100	<10	6	<5	<5	<5	na	<5	<50	<5	<5	<5	<10
	11/12/96	<5	<5	<5	<5	<100	<100	<10	6	<5	<5	<5	na	<5	<50	<5	<5	<5	<10
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<5	100	<5	<5	<5	<10
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10
	08/06/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	5.4	<5	<5	<50	<5	<5	<5	<10
	10/08/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<10
	01/23/98	<5	<5	<5	<5	<100	<20	<10	5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	07/16/98	<5	<5	<5	<5	<100	<20	<10	5	<5	<5	5	<5	<5	<10	<5	<5	<5	<10
	01/26/99	<1	<1	<1	<1	<20	<20	<2	4	<1	<1	4	<1	<2	<10	<1	<1	<1	<2
	07/08/99	<1	<1	<1	<1	<20	<20	<2	4	1	<1	4	<1	<2	<10	<1	<1	<1	<2
	01/27/00	<1	<1	<1	<1	<20	<20	<2	4	1	<1	4	<1	<2	<10	<1	<1	<1	<2
	07/17/00	<1	<1	<1	<1	<20	<20	<2	4	1	<1	3	<1	<2	<10	<1	<1	<1	<2

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEx (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWQCC Standard																			
	02/17/01	<1.00	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	2.79	<1.00	<1.00	3.62	<1.00	<5.00	<5.00	<1.00	<1.00	<1.00	<1.00
	08/21/01	<1	<1	<1	<3	<10	<10	<1	2.3	<1	<1	3.6	<1	<5	<5	<1	<1	<1	<1
	02/28/02	<1	<1	<1	<2	<10	<5	<1	2.00	<1	<1	2.92	<1	<5	<5	<1	<1	<1	<1
	08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<50	<1.0	2.1	1.8	<1.0	3.5	<1.0	<3.0	<15	<1.0	<1.0	<1.0	<2.0
MW-5	12/01/94	20	19	8.3	26	na	na	8.9	<0.2	18	1.1	<0.2	12	43	na	0.8	<0.2	3.2	<0.2
	09/12/95	12	24	<5	24	1000	200	100	<5	200	7	<5	na	190	520	<5	<5	67	<10
	11/12/96	20	44	18	44	<100	<100	31	<5	150	<5	<5	na	5	300	<5	<5	<5	11
	02/06/97	31	53	12	83	56	<100	56	<5	160	<5	5.6	140	36 ^b	280	<5	<5	120	16
	05/10/97	24	35	9	38	<100	<100	22	<5	140	<5	<5	120	<50	210	<5	<5	86	<10
Dup (BS-99)	05/10/97	23	38	9	38	<100	<100	22	<5	130	<5	<5	111	<50	180	<5	<5	82	<10
	08/07/97	22	9	<5	15	<100	<100	11	<5	47	<5	<5	53	7	50	<5	<5	35	<10
	10/09/97	19	15	7	24	<100	<100	<10	<5	96	<5	<5	103	10 ^b	89	<5	<5	71	<10
Dup (MW-17)	10/09/97	18	14	7	25	<100	<100	<10	<5	102	<5	<5	111	10 ^b	98	<5	<5	69	<10
	01/24/98	23	18	9	33	<100	<20	<10	<5	120	<5	6	140	<5	130	<5	<5	75	<10
Dup (MW-17)	01/24/98	25	19	9	34	<100	<20	10	<5	130	<5	7	150	<5	120	<5	<5	77	<10
	04/17/98	16	9	<5	14	<100	<20	<10	<5	83	<5	<5	91	<5	18	<5	<5	67	<10
	07/17/98	21	10	5	17	<100	<20	16	<5	110	<5	6	100	<5	47	<5	<5	91	<10
Dup (MW-17)	01/27/99	22	9	7	19	<20	<20	7	<1	84	1	5	85	<2	17	4	3	100	<2
	01/27/99	22	9	7	19	<20	<20	5	<1	81	1	5	86	<2	19	3	2	96	<2
	07/09/99	22	11	6	15	<20	<20	5	<1	100	2	4	84	<2	22	3	3	100	<2
Dup (MW-17)	01/27/00	22	8	7	16	<20	<20	3	<1	68	1	3	60	<2	10	3	3	85	<2
	01/27/00	22	8	7	15	<20	<20	3	<1	67	1	3	60	<2	10	3	3	84	<2
	07/18/00	23	8	7	15	<20	<20	4	<1	59	1	3	54	<2	<10	4	3	82	<2
Dup (MW-19)	02/18/01	19.4	7.63	7.77	16.97	11.7	<10.00	4.95	<1.00	59.8	1.24	3.34	61.9	<5.00	14.6	3.38	3.31	65.6	<1.00
	02/18/01	19.5	7.73	7.84	17.15	<10.00	<10.00	4.34	<1.00	57.7	1.23	3.06	62.0	<5.00	13.9	2.93	3.11	63.8	<1.00
	08/21/01	19.8	7.18	6.15	14.35	19	<10	8.62	<1	108	1.5	4.37	106	<5	11.2	1.95	4.49	94.5	1.12
Dup (MW-19)	03/01/02	14.3	3.72	4.58	8.68	<10.0	<5.00	4.10	<1.00	119	1.98	4.29	87.6	<5.00	6.19	1.04	3.23	104	3.26
	03/01/02	14.1	3.54	4.45	8.67	<10.0	<5.00	4.09	<1.00	124	1.97	4.15	86.9	<5.00	6.63	1.10	3.37	104	2.24
	08/01/02	21	6.3	4.8	12	<50	<100	5.3	<2.0	130	2.2	8.3	110	<6.0	<30	3.3	7.3	110	<4.0
MW-6	11/30/94	1.8	<0.5	<0.5	0.5	na	na	0.5	<0.2	13	<0.2	2.9	6.8	<2.0	na	0.4	<0.2	15	<0.2

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)																																									
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone			Methyl ethyl ketone (2-butanone)			Chloroethane			Chloroform			1,1-Dichloroethane			1,2-Dichloroethane			1,1-Dichloroethene			Cis-1,2-Dichloroethene			Dichloromethane (Methylene chloride)			4-methyl-2-pentanone			Tetrachloroethene			1,1,1-Trichloroethane			Trichloroethene			Vinyl chloride		
						10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	none	none	20	60	100	1																						
NMWQCC Standard	09/12/95	2	<5	<5	<5	<100	<100	<10	<5	17	<5	<5	na	<5	<50	<5	<5	21	<10																												
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	na	<5	<50	<5	<5	15	<10																												
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	11	<5	<5	6	<50	<50	<5	<5	18	<10																												
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	10	<5	<5	<5	<50	<50	<5	<5	14	<10																												
	08/07/97	<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	7	<5	<50	<5	<5	16	<10																												
	10/09/97	<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	7	<5	<50	<5	<5	16	<10																												
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	14	<5	<5	7	<5	<10	<5	<5	15	<10																												
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	13	<5	<5	8	<5	<10	<5	<5	17	<10																												
	07/16/98	<5	<5	<5	<5	<100	<20	<10	<5	12	<5	<5	7	<5	<10	<5	<5	14	<10																												
	01/27/99	1	<1	<1	<1	<20	<20	<2	<1	11	<1	3	8	<2	<10	<1	<1	16	<2																												
	07/08/99	2	<1	<1	<1	<20	<20	<2	<1	12	<1	2	9	<2	<10	<1	<1	18	<2																												
	01/27/00	2	<1	<1	<1	<20	<20	<2	<1	14	<1	3	9	<2	<10	<1	<1	19	<2																												
	07/18/00	2	<1	<1	<1	<20	<20	<2	<1	14	<1	3	10	<2	<10	<1	<1	19	<2																												
	02/18/01	1.60	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	12.1	<1.00	2.09	9.49	<5.00	<5.00	<1.00	<1.00	16.4	<1.00																												
	08/21/01	1.5	<1	<1	<3	<10	<10	<1	<1	10	<1	2.02	8.28	<5	<5	<1	<1	15.5	<1																												
	02/28/02	1.6	<1.00	<1.00	<2.00	<10.0	<5.00	<1.00	<1.00	11.8	<1.00	1.88	8.60	<5.00	<5.00	<1.00	<1.00	16.4	<1.00																												
	08/01/02	1.3	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	11	<1.0	2.5	8.4	<3.0	<15	<1.0	<1.0	17	<2.0																												
MW-7	11/22/94	7	<0.5	<0.5	<0.5	na	na	<0.2	<0.2	23	0.3	2.3	7.3	<2.0	na	0.4	1.6	14	0.3																												
	09/12/95	6	<5	<5	<5	<100	<100	<10	<5	22	<5	<5	na	<5	<50	<5	<5	13	<10																												
	11/12/96	9	<5	<5	<5	<100	<100	<10	<5	22	24	<5	na	<5	<50	<5	<5	18	<10																												
	02/04/97	8	<5	<5	<5	<100	<100	<10	<5	18	<5	<5	7	<50	<50	<5	<5	15	<10																												
	05/10/97	6	<5	<5	<5	<100	<100	<10	<5	16	<5	<5	<5	<50	<50	<5	<5	13	<10																												
	08/07/97	9	<5	<5	<5	<100	<100	<10	<5	22	<5	<5	8	<5	<50	<5	<5	17	<10																												
	10/09/97	<5	<5	<5	<5	<100	<100	<10	<5	20	<5	<5	6	<5	<50	<5	<5	16	<10																												
	01/23/98	6	<5	<5	<5	<100	<20	<10	<5	21	<5	<5	6	<5	<10	<5	<5	13	<10																												
	04/17/98	6	<5	<5	<5	<100	<20	<10	<5	20	<5	<5	8	<5	<10	<5	<5	14	<10																												
	07/16/98	7	<5	<5	<5	<100	<20	<10	<5	19	<5	<5	7	<5	<10	<5	<5	12	<10																												
	01/27/99	7	<1	<1	<1	<20	<20	<2	1	19	<1	3	10	<2	<10	<1	<1	12	<2																												
	07/08/99	7	<1	<1	<1	<20	<20	<2	1	20	<1	2	10	<2	<10	<1	<1	12	<2																												
	01/27/00	8	<1	<1	<1	<20	<20	<2	1	24	<1	2	13	<2	<10	<1	<1	12	<2																												
	07/18/00	6	<1	<1	<1	<20	<20	<2	1	19	<1	2	11	<2	<10	<1	<1	9	<2																												

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
MW-8	02/18/01	7.90	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	1.36	24.3	<1.00	2.24	16.0	<5.00	<5.00	<1.00	<1.00	12.1	<1.00
	08/21/01	4.25	<1	<1	<3	<10	<10	<1	<1	21.6	<1	1.79	15	<5	<5	<1	<1	11.2	<1
	02/28/02	<1.00	<1.00	<1.00	<2.00	<10.0	<5.00	<1.00	1.27	34.3	<1.00	2.37	24.8	<5.00	<5.00	<1.00	<1.00	15.3	<1.00
	08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	1.7	30	<1.0	2.9	24	<3.0	<15	<1.0	<1.0	15	<2.0
	11/30/94	12	<0.5	<0.5	<0.5	na	na	0.5	<0.2	71	0.9	1.3	18	<2.0	na	<0.2	<0.2	17	0.2
Dup (MW-17)	09/13/95	18	<5	<5	<5	<100	<100	<10	<5	92	<5	<5	na	<5	<50	<5	<5	45	<10
	11/12/96	19	<5	<5	<5	<100	<100	<10	<5	86	<5	6	na	<5	<50	<5	<5	59	<10
	02/06/97	24	<5	<5	<5	<100	<100	<10	<5	80	<5	<5	28	5.2 ^a	<50	<5	<5	52	<10
	05/10/97	19	42	<5	<5	<100	<100	25	<5	74	<5	<5	120	<50	130	<5	<5	44	<10
	08/07/97	21	<5	<5	<5	<100	<100	25	<5	86	<5	7.4	30	<5	<50	<5	<5	49	<10
	08/07/97	21	<5	<5	<5	<100	<100	25	<5	88	<5	7.8	32	<5	<50	<5	<5	51	<10
	10/09/97	25	<5	<5	<5	<100	<100	<10	<5	104	<5	<5	34	7 ^b	<50	<5	<5	67	<10
	01/24/98	21	<5	<5	<5	<100	<20	<10	<5	100	<5	<5	33	<5	0	<5	<5	52	<10
	04/17/98	19	<5	<5	<5	<100	<20	<10	<5	89	<5	<5	33	<5	<10	<5	<5	51	<10
	07/17/98	20	<5	<5	<5	<100	<20	<10	<5	91	<5	<5	32	<5	<10	<5	<5	51	<10
Dup (MW-17)	07/17/98	20	<5	<5	<5	<100	<20	<10	<5	88	<5	<5	31	<5	<10	<5	<5	52	<10
	01/27/99	20	<1	<1	<1	<20	<20	<2	<1	94	2	5	37	<2	<10	<1	<1	54	<2
	07/09/99	17	<1	<1	<1	<20	<20	<2	<1	99	2	5	39	<2	<10	<1	<1	59	<2
Dup (MW-17)	07/09/99	16	<1	<1	<1	<20	<20	<2	<1	95	2	5	39	<2	<10	<1	<1	59	<2
	01/27/00	21	<1	<1	<1	<20	<20	<2	<1	110	2	5	43	<2	<10	<1	<1	59	<2
	07/18/00	21	<1	<1	<1	<20	<20	<2	<1	100	2	5	45	<2	<10	<1	<1	59	<2
Dup (MW-17)	07/18/00	20	<1	<1	<1	<20	<20	<2	<1	100	2	5	44	<2	<10	<1	<1	59	<2
	02/18/01	17.8	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	89.2	1.49	4.52	42.0	<5.00	<5.00	<1.00	<1.00	52.8	<1.00
Dup (MW-17)	08/21/01	17.7	<1	<1	<3	<10	<10	<1	<1	97.9	1.59	4.74	42.6	<5	<5	<1	<1	54.1	1.13
	08/21/01	17.8	<1	<1	<3	<10	<10	<1	<1	100	1.42	4.47	45.8	<5	<5	<1	<1	52.9	1.11
	02/28/02	22.1	<1.00	<1.00	<2.00	<10.0	<5.00	<1.00	<1.00	108	2.33	4.50	47.1	<5.00	<5.00	<1.00	<1.00	56.6	2.92
Dup (MW-18)	08/01/02	25	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	120	1.7	6.1	51	<3.0	<15	<1.0	<1.0	68	<2.0
	08/01/02	24	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	130	1.6	6.0	48	<3.0	<15	<1.0	<1.0	59	<2.0
MW-14	09/13/95	1	<5	<5	<5	<100	<100	<10	<5	24	<10	<5	na	<5	<50	<5	<5	11	<10
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	25	<10	<5	na	<5	<50	<5	<5	13	<10

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEx (ug/L)					Other VOCs (ug/L)																						
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone					Methyl ethyl ketone (2-butanone)					Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride		
						none	none	none	none	100.0	25.0	10.0	5	none	none													none	none
NMWQCC Standard																													
	MW-15																												

Table 4. Summary of Groundwater Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWOCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
MW-16	08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	1.9	3.6	<1.0	3.8	<1.0	<3.0	<15	<1.0	2.1	<1.0	<2.0
	09/14/95	<1	<5	<5	<5	<100	<100	<10	<5	6	<5	<5	na	<5	<50	6	<5	<5	<10
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	6	<5	<5	na	<5	<50	21	<5	<5	<10
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	17	<5	<5	<10
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10
	08/06/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	6	<50	14	<5	<5	<10
	10/08/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	7 ^a	<50	15	<5	<5	<10
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	13	<5	<5	<10
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	07/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	16	<5	<5	<10
	01/26/99	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	16	<1	1	<2
	07/08/99	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	14	<1	1	<2
	01/27/00	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	14	<1	1	<2
	07/17/00	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	2	<1	<2	<10	13	<1	1	<2
SVE-1A	02/17/01	<1.00	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	2.43	<1.00	3.13	<1.00	<5.00	<5.00	10.5	<1.00	<1.00	<1.00
	08/21/01	<1	<1	<1	<3	<10	<10	<1	<1	2.03	<1	3.15	<1	<5	<5	8.22	<1	<1	<1
	02/28/02	<1	<1	<1	<2	<10	<5	<1	<1	2.33	<1	2.45	<1	<5	<5	6.53	<1	<1	<1
	08/01/02	<1.0	<1.0	<1.0	<1.0	<25	<50	<2.0	<1.0	2.9	<1.0	2.7	<1.0	<3.0	<15	9.6	<1.0	1.2	<2.0
	01/26/00	59	16	14	57	<20	<20	11	<1	240	2	8	54	5	240	8	44	59	<2
	07/18/00	59	16	15	59	<20	<20	9	<1	230	3	8	62	3	480	3	33	57	<2
	02/18/01	45.6	29.6	14.2	101.12	<50.0	<50.0	14.2	<5.00	466	5.45	15.8	101	<25.0	883	13.8	55.1	98.9	<5.00
	08/21/01	51.9	31.4	16.2	92.6	<10	<10	13.3	<1	607	5.08	21.8	116	<5	610	7.65	62.5	133	3.6
	03/01/02	47.7	41.5	16.0	89.2	<100	<50.0	<10.0	<10.0	334	<10.0	10.8	101	<50.0	842	<10.0	14.9	84.7	<10.0
	08/01/02	60	57	17	110	<250	<500	<20	<10	480	<10	21	170	<30	1000	11	33	150	<20

NOTES:

- (a) Sample analyzed at 10x dilution
 (b) Constituent also detected in laboratory blank sample
 na - Analysis for this constituent was not run on samples collected during this sample event

**Table 5. Summary of Groundwater Analyses - Additional
Organics
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
MW-1	10/09/97	1,1,2,2-Tetrachloroethane	107	50
	01/23/98	1,2,4-Trimethylbenzene	36	5
	01/23/98	1,3,5-Trimethylbenzene	13	5
	01/23/98	2-Hexanone	25	10
	04/17/98	Naphthalene	11	5
	04/17/98	1,2,4-Trimethylbenzene	39	5
	04/17/98	1,3,5-Trimethylbenzene	13	5
	04/17/98	2-Hexanone	18	10
Dup(MW-17)	04/17/98	Naphthalene	24	5
	04/17/98	1,2,4-Trimethylbenzene	40	5
	04/17/98	1,3,5-Trimethylbenzene	14	5
	04/17/98	2-Hexanone	26	10
	07/17/98	Naphthalene	13	5
	07/17/98	1,2,4-Trimethylbenzene	32	5
	07/17/98	1,3,5-Trimethylbenzene	11	5
	07/17/98	2-Hexanone	18	10
	01/27/99	Carbon disulfide	1	1
	01/27/99	Isopropylbenzene	2	1
	01/27/99	n-Propylbenzene	3	1
	01/27/99	1,3,5-Trimethylbenzene	14	1
	01/27/99	1,2,4-Trimethylbenzene	38	1
	01/27/99	4-Isopropyltoluene	2	1
	01/27/99	1,2-Dichlorobenzene	1	1
	01/27/99	Naphthalene	14	1
	08/21/01	1,2,4-Trimethylbenzene	27.8	5
	08/21/01	1,2-Dichlorobenzene	1.02	1
	08/21/01	1,3,5-Trimethylbenzene	15.3	1
	08/21/01	n-Propylbenzene	1.12	1
	08/21/01	Naphthalene	11.2	2
	08/01/02	1,2,4-Trimethylbenzene	33	10
	08/01/02	1,3,5-Trimethylbenzene	16	10
MW-4	12/01/94	Bromodichloromethane	0.2	0.2
MW-5	12/01/94	1,2-Dichlorobenzene	0.5	0.2
	11/12/96	Bromodichloromethane	94	5
	01/24/98	Naphthalene	48	5
	01/24/98	1,2,4-Trimethylbenzene	17	5
	01/24/98	1,3,5-Trimethylbenzene	10	5
Dup(MW-17)	01/24/98	Naphthalene	40	5
	01/24/98	1,2,4-Trimethylbenzene	17	5
	01/24/98	1,3,5-Trimethylbenzene	10	5
	04/17/98	Naphthalene	5	5
	04/17/98	1,2,4-Trimethylbenzene	6	5
	07/17/98	Naphthalene	7	5
	07/17/98	1,2,4-Trimethylbenzene	6	5
	01/27/99	trans-1,2-Dichloroethene	1	1
	01/27/99	1,3,5-Trimethylbenzene	6	1

**Table 5. Summary of Groundwater Analyses - Additional
Organics
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
	01/27/99	1,2,4-Trimethylbenzene	9	1
	01/27/99	4-Isopropyltoluene	1	1
	01/27/99	1,2-Dichlorobenzene	1	1
	01/27/99	Naphthalene	9	1
Dup(MW-17)	01/27/99	1,3,5-Trimethylbenzene	7	1
Dup(MW-17)	01/27/99	1,2,4-Trimethylbenzene	10	1
Dup(MW-17)	01/27/99	4-Isopropyltoluene	1	1
Dup(MW-17)	01/27/99	1,2-Dichlorobenzene	1	1
Dup(MW-17)	01/27/99	Naphthalene	9	1
	07/09/99	1,3,5-Trimethylbenzene	6	1
	07/09/99	1,2,4-Trimethylbenzene	9	1
	07/09/99	4-Isopropyltoluene	1	1
	07/09/99	Naphthalene	9	1
Dup(MW-17)	01/27/00	1,3,5-Trimethylbenzene	8	1
Dup(MW-17)	01/27/00	1,2,4-Trimethylbenzene	13	1
Dup(MW-17)	01/27/00	4-Isopropyltoluene	2	1
Dup(MW-17)	01/27/00	Naphthalene	12	1
	01/27/00	1,3,5-Trimethylbenzene	8	1
	01/27/00	1,2,4-Trimethylbenzene	13	1
	01/27/00	4-Isopropyltoluene	2	1
	01/27/00	Naphthalene	13	1
	01/27/00	1,3,5-Trimethylbenzene	9	1
	01/27/00	1,2,4-Trimethylbenzene	15	1
	01/27/00	4-Isopropyltoluene	2	1
	01/27/00	Naphthalene	11	1
Dup(MW-19)	02/18/01	1,2-Dichlorobenzene	1.04	1.00
Dup(MW-19)	02/18/01	p-Isopropyltoluene	2.10	2.00
Dup(MW-19)	02/18/01	n-Propylbenzene	1.12	1.00
Dup(MW-19)	02/18/01	1,2,4-Trimethylbenzene	16.6	1.00
Dup(MW-19)	02/18/01	1,3,5-Trimethylbenzene	9.35	1.00
	02/18/01	1,2-Dichlorobenzene	1.04	1.00
	02/18/01	p-Isopropyltoluene	2.18	2.00
	02/18/01	Napthalene	14.4	2.00
	02/18/01	n-Propylbenzene	1.12	1.00
	02/18/01	1,2,4-Trimethylbenzene	16.7	1.00
	02/18/01	1,3,5-Trimethylbenzene	9.23	1.00
	08/21/01	1,2,4-Trimethylbenzene	11.8	1
	08/21/01	1,3,5-Trimethylbenzene	7.71	1
	08/21/01	Napthalene	9.4	1
	08/21/01	trans-1,2-Dichloroethene	1.15	1
Dup(MW-19)	03/01/02	Carbon disulfide	2.1	1
Dup(MW-19)	03/01/02	trans-1,2-Dichloroethene	1.14	1
Dup(MW-19)	03/01/02	1,3,5-Trimethylbenzene	8.06	1
Dup(MW-19)	03/01/02	1,2,4-Trimethylbenzene	9.37	1
Dup(MW-19)	03/01/02	p-Isopropyltoluene	3.50	1
Dup(MW-19)	03/01/02	Napthalene	8.39	1

**Table 5. Summary of Groundwater Analyses - Additional
Organics
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
	03/01/02	Carbon disulfide	1.19	1
	03/01/02	trans-1,2-Dichloroethene	1.42	1
	03/01/02	1,3,5-Trimethylbenzene	7.79	1
	03/01/02	1,2,4-Trimethylbenzene	8.96	1
	03/01/02	p-Isopropyltoluene	3.36	1
	03/01/02	Napthalene	10.5	1
	08/01/02	1,2,4-Trimethylbenzene	9.2	5
	08/01/02	1,3,5-Trimethylbenzene	2.2	5
	08/01/02	Napthalene	7	4
	08/01/02	4-Isopropyltoluene	2.5	2
	08/01/02	n-Propylbenzene	2.2	2
	08/01/02	trans-1,2-Dichloroethene	2.4	2
MW-6	11/30/94	1,2-Dichlorobenzene	0.3	0.2
MW-8	11/30/94	1,2-Dichlorobenzene	0.4	0.2
	01/24/98	P-Isopropyltoluene	10	5
	01/27/99	Isopropylbenzene	2	1
	01/27/99	4-Isopropyltoluene	2	1
	01/27/99	1,2-Dichlorobenzene	1	1
Dup(MW-17)	07/09/99	1,2-Dichlorobenzene	1	1
	07/09/99	1,2-Dichlorobenzene	1	1
	01/27/00	1,2-Dichlorobenzene	1	1
	07/18/00	1,2-Dichlorobenzene	1	1
Dup(MW-17)	07/18/00	1,2-Dichlorobenzene	1	1
	02/18/01	1,2-Dichlorobenzene	1.14	1.00
	08/21/01	1,2-Dichlorobenzene	1.08	1
	02/28/02	1,2-Dichlorobenzene	1.33	1
	02/28/02	trans 1,2 Dichloroethene	1.01	1
	08/01/02	1,2-Dichlorobenzene	1.3	1
	08/01/02	Isopropylbenzene	1.0	1
	08/01/02	trans-1,2-Dichloroethene	1.7	1
	08/01/02	1,2-Dichlorobenzene	1.3	1
	08/01/02	Isopropylbenzene	1.1	1
	08/01/02	trans-1,2-Dichloroethene	1.5	1
SVE-1A	01/26/00	Isopropylbenzene	2	1
	01/26/00	n-Propylbenzene	3	1
	01/26/00	1,3,5-Trimethylbenzene	19	1
	01/26/00	1,2,4-Trimethylbenzene	30	1
	01/26/00	4-Isopropyltoluene	2	1
	01/26/00	Napthalene	14	1
	07/18/00	Isopropylbenzene	2	1
	07/18/00	n-Propylbenzene	3	1
	07/18/00	1,3,5-Trimethylbenzene	21	1
	07/18/00	1,2,4-Trimethylbenzene	33	1
	07/18/00	4-Isopropyltoluene	2	1
	07/18/00	Napthalene	15	1
	02/18/01	1,2,4-Trimethylbenzene	44.5	5.00

**Table 5. Summary of Groundwater Analyses - Additional
Organics
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
	02/18/01	1,3,5-Trimethylbenzene	25.2	5.00
	08/21/01	1,1,2-Trichloroethane	1.48	1
	08/21/01	1,2,4-Trimethylbenzene	47.2	5
	08/21/01	1,3,5-Trimethylbenzene	23.8	1
	08/21/01	Isopropylbenzene	2.44	2
	08/21/01	n-Propylbenzene	3.12	1
	08/21/01	Naphthalene	16.2	2
	08/21/01	trans-1,2-Dichloroethene	1.06	1
	03/01/02	1,3,5-Trimethylbenzene	27	1
	03/01/02	1,2,4-Trimethylbenzene	57	1
	03/01/02	n-Propylbenzene	12	1

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)							Metals (mg/L)														
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc	
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	0.05	10
MW-1	11/15/94	2900	190	< 5	< 0.06	485	59.1	175	216	1610	0.11	24	< 0.0005	< 0.01	< 0.01	0.325	< 0.002	< 0.0002	0.1	< 0.005	< 0.01	na	na
	09/14/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2370	165	< 50	na	na	na	na	na	na	0.13	22.9	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.05	< 0.04	< 0.01	na	na
	02/04/97	2460	172	< 5.0	na	na	na	na	na	na	0.12	20	< 0.01	< 0.01	< 0.01	0.25	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	< 0.03	< 0.03
											0.13	22	< 0.01	< 0.01	< 0.01	10	< 0.03	< 0.0002	0.05	< 0.04	< 0.01	< 0.03	< 0.03
	05/10/97	2840	162	< 5.0	< 0.05	na	na	na	na	na	0.15	22.5	< 0.01	< 0.01	< 0.01	0.21	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	< 0.03	< 0.03
	08/07/97	2910	150	< 5.0	5.4	na	na	na	na	na	0.11	27	< 0.01	< 0.01	< 0.01	0.21	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	< 0.01	0.46
	10/09/97	2690	175	< 5.0	< 0.05	na	na	na	na	na	0.16	26	< 0.01	< 0.01	0.04	0.11	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	< 0.01	0.45
	01/23/98	1890	160	9	0.15	na	na	na	na	na	0.2	27.2	< 0.005	< 0.01	< 0.01	0.54	< 0.05	< 0.0002	0.020	< 0.1	< 0.01	< 0.01	< 0.02
	04/17/98	2100	150	200	0.90	na	na	na	na	na	0.2	26.8	< 0.005	< 0.01	< 0.01	8.42	< 0.05	< 0.0002	0.018	< 0.1	< 0.01	< 0.01	< 0.02
	07/17/98	1800	150	7	1.29	na	na	na	na	na	0.1	24.9	< 0.005	< 0.01	< 0.01	8.92	< 0.05	< 0.0002	0.019	< 0.1	< 0.01	< 0.01	< 0.02
	07/17/98	2200	156	9	< 0.1	na	na	na	na	na	0.15	32.2	< 0.005	< 0.01	< 0.01	15.1	< 0.05	< 0.0002	0.023	< 0.005	< 0.01	< 0.01	< 0.02
	08/21/01	3000	157	< 1	0.103	na	na	na	na	na	0.152	10.9	na	na	na	4.93	na	< 0.0002	0.0201	na	na	na	na
	08/01/02	5900	150	< 5.0	< 2.0	na	na	na	na	na	0.25	33	na	na	na	3.0	na	na	na	na	na	na	na
MW-4	12/01/94	2800	540	1000	20	332	5.9	153	353	273	0.007	0.025	< 0.0005	< 0.01	< 0.01	< 0.05	< 0.002	< 0.0002	0.024	0.02	< 0.01	< 0.01	na
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2500	430	1000	na	na	na	na	na	na	< 0.03	0.03	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	< 0.01	na
	02/04/97	2370	416	416	na	na	na	na	na	na	< 0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0002	< 0.01	< 0.04	< 0.01	< 0.03	< 0.03
											< 0.03	0.03	< 0.01	< 0.01	< 0.01	0.57	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	< 0.03	< 0.03
	05/10/97	2660	410	778	10.7	na	na	na	na	na	< 0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	< 0.03	< 0.03
	08/06/97	2620	435	863	12.8	na	na	na	na	na	< 0.03	0.33	< 0.01	0.02	< 0.01	< 0.01	< 0.03	< 0.0002	< 0.01	0.08	< 0.01	< 0.01	0.25
	10/08/97	2470	380	879	9.6	na	na	na	na	na	< 0.03	0.92	< 0.01	< 0.01	< 0.01	0.14	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	< 0.01	0.4
	01/23/98	1920	300	581	< 0.05	na	na	na	na	na	< 0.1	0.017	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.188	< 0.1	< 0.01	< 0.01	< 0.02
	04/16/98	1600	320	800	11.6	na	na	na	na	na	< 0.1	0.026	< 0.005	< 0.01	< 0.01	0.07	< 0.05	< 0.0002	0.201	< 0.1	< 0.01	< 0.01	0.03
	07/16/98	2300	301	900	14.1	na	na	na	na	na	0.011	0.020	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.154	0.018	< 0.01	< 0.01	< 0.02
	07/08/99	2200	320	710	14.0	na	na	na	na	na	0.010	0.0213	< 0.0020	< 0.0050	< 0.0020	< 0.010	< 0.025	< 0.00020	0.0381	0.020	< 0.0030	< 0.010	< 0.010
	07/17/00	2240	370	820	15.0	na	na	na	na	na	0.010	0.0206	na	na	na	0.030	na	< 0.00020	0.0011	na	na	na	na

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)											
		NO ₂ /NO ₃ - N, total										Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
		TDS	Chloride	Sulfate	10	none	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)												
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10	
MW-5	08/21/01	2400	411	782	5.11	na	na	na	na	na	<0.05	0.0196	na	na	na	<0.05	na	<0.0002	<0.01	na	na	na	
	08/01/02	2200	310	670	10	na	na	na	na	na	<0.010	0.023	na	na	na	<0.020	na	na	0.085	na	na	na	
	12/01/94	2000	360	<5	<0.06	185	6.1	200	326	1080	0.036	17.3	<0.0005	<0.01	<0.01	0.097	<0.002	<0.0002	0.112	<0.005	<0.01	na	
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
	11/12/96	2610	495	<25	na	na	na	na	na	na	0.06	25.9	<0.01	<0.01	na	na	<0.03	<0.0002	0.43	<0.04	<0.01	na	
	02/06/97	2300	4400	<5.0	na	na	na	na	na	na	0.04	21	<0.01	<0.01	<0.01	0.21	<0.03	<0.0002	0.02	<0.04	<0.01	0.04	
											0.12	22	<0.01	0.02	0.02	27	0.04	<0.0002	0.56	<0.04	<0.01	0.09	
Dup (MW-17)	05/10/97	2340	380	<5.0	<0.05	na	na	na	na	na	0.05	22.2	<0.01	<0.01	<0.01	0.12	<0.03	<0.0002	0.01	<0.04	<0.01	<0.03	
	08/07/97	1870	300	<5.0	0.09	na	na	na	na	na	<0.03	16	<0.01	<0.01	<0.01	0.08	<0.03	<0.0002	<0.01	<0.04	<0.01	0.24	
	10/09/97	2090	320	<5.0	<0.05	na	na	na	na	na	<0.03	23	<0.01	<0.01	<0.01	0.02	<0.03	<0.0002	<0.01	<0.04	<0.01	0.23	
	10/09/97	2100	340	<5.0	<0.05	na	na	na	na	na	<0.03	16	<0.01	<0.01	<0.01	0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	0.23	
	01/24/98	1640	300	4	<0.05	na	na	na	na	na	<0.05	15.5	<0.005	<0.01	<0.01	0.19	<0.05	<0.0002	0.017	<0.1	<0.01	<0.02	
	01/24/98	1680	300	4	<0.05	na	na	na	na	na	0.1	16.4	<0.005	<0.01	<0.01	0.19	<0.05	<0.0002	0.015	<0.1	<0.01	<0.02	
	04/17/98	1400	290	200	0.88	na	na	na	na	na	<0.1	14.4	<0.005	<0.01	<0.01	1.29	<0.05	<0.0002	0.022	<0.1	<0.01	0.03	
Dup (MW-17)	07/17/98	1600	281	3	<0.1	na	na	na	na	na	0.020	13.7	<0.005	<0.01	<0.01	4.61	<0.05	<0.0002	0.018	<0.005	<0.01	<0.02	
	07/09/99	1800	260	<25	<0.01	na	na	na	na	na	0.019	13.3	<0.0020	<0.0050	<0.0020	2.50	<0.025	<0.00020	0.0224	<0.010	<0.0030	<0.010	
	07/18/00	1740	270	<3.0	<0.01	na	na	na	na	na	0.022	13.2	na	na	na	2.80	na	<0.00020	0.0233	na	na	na	
	08/21/01	1860	253	<1	0.0842	na	na	na	na	na	<0.05	4.09	na	na	na	1.34	na	<0.0002	0.025	na	na	na	
	08/01/02	1700	240	<5	<2	na	na	na	na	na	0.12	14	na	na	na	0.30	na	na	0.027	na	na	na	
MW-6	11/30/94	2400	700	410	<0.06	293	7.1	197	267	624	<0.005	0.109	<0.0005	<0.01	0.014	<0.05	<0.002	<0.0002	0.562	<0.005	<0.01	na	
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
	11/12/96	2460	715	527	na	na	na	na	na	na	<0.03	0.37	<0.01	<0.01	na	na	<0.03	<0.0002	0.95	<0.04	<0.01	na	
	02/04/97	2390	700	467	na	na	na	na	na	na	<0.03	0.12	<0.01	<0.01	<0.01	0.01	<0.03	<0.0002	0.79	<0.04	<0.01	<0.03	
											<0.03	0.55	<0.01	0.02	0.03	14	<0.03	<0.0002	1.1	<0.04	<0.01	0.05	
	05/10/97	2550	700	463	<0.05	na	na	na	na	na	<0.03	0.1	<0.01	<0.01	<0.01	0.01	<0.03	<0.0002	0.69	<0.04	<0.01	<0.03	
	08/07/97	2660	720	427	0.4	na	na	na	na	na	<0.03	0.8	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.93	<0.04	<0.01	0.29	

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)											
		NO ₂ /NO ₃ - N, total										Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
		TDS	Chloride	Sulfate	10	none	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)												
NNMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10	
MW-7	10/09/97	2710	710	468	< 0.05	na	na	na	na	na	< 0.03	0.95	< 0.01	< 0.01	< 0.01	0.18	< 0.03	< 0.0002	0.91	< 0.04	< 0.01	0.4	
	01/23/98	2190	700	378	< 0.05	na	na	na	na	na	< 0.1	0.121	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.933	< 0.1	< 0.01	< 0.02	
	04/16/98	1700	720	500	0.89	na	na	na	na	na	< 0.1	0.112	< 0.005	< 0.01	< 0.01	0.7	< 0.05	< 0.0002	0.844	< 0.1	< 0.01	< 0.02	
	07/16/98	2100	620	550	< 0.1	na	na	na	na	na	0.008	0.110	< 0.005	< 0.01	< 0.01	0.70	< 0.05	< 0.0002	0.832	< 0.005	< 0.01	< 0.02	
	07/08/99	2400	720	390	< 0.01	na	na	na	na	na	< 0.010	0.114	< 0.0020	< 0.0050	< 0.0020	0.638	< 0.025	< 0.00020	0.888	< 0.010	< 0.0030	< 0.010	
	07/18/00	2390	780	450	< 0.01	na	na	na	na	na	< 0.010	0.1140	na	na	na	0.707	na	< 0.00020	0.804	na	na	na	
	08/21/01	3380	802	411	0.0636	na	na	na	na	na	< 0.05	< 0.01	na	na	na	0.103	na	< 0.0002	< 0.01	na	na	na	
	08/01/02	2700	740	490	< 2.0	na	na	na	na	na	0.025	0.11	na	na	na	0.36	na	na	0.88	na	na	na	
	11/30/94	2400	400	920	6.8	323	7.9	148	244	327	0.006	0.032	< 0.0005	< 0.01	0.014	< 0.05	< 0.002	< 0.0002	0.069	0.008	< 0.01	na	
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
	11/12/96	2240	400	823	na	na	na	na	na	na	< 0.03	1.27	< 0.01	0.01	na	na	< 0.03	< 0.0002	0.6	< 0.04	< 0.01	na	
	02/04/97	2100	380	779	na	na	na	na	na	na	< 0.03	0.04	< 0.01	< 0.01	< 0.01	0.01	< 0.03	< 0.0002	0.04	< 0.04	< 0.01	< 0.03	
MW-8	05/10/97	2250	390	757	7.3	na	na	na	na	na	0.12	3.2	< 0.01	0.04	0.06	41	0.04	< 0.0002	1.2	< 0.04	< 0.01	0.14	
	08/07/97	2310	370	716	4.1	na	na	na	na	na	< 0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.04	< 0.04	< 0.01	< 0.03	
	10/09/97	2190	410	784	7	na	na	na	na	na	< 0.03	0.61	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.09	< 0.04	< 0.01	0.22	
	01/23/98	1700	400	646	8.4	na	na	na	na	na	< 0.1	0.018	< 0.005	< 0.01	< 0.01	0.19	< 0.03	< 0.0002	0.07	< 0.04	< 0.01	0.35	
	04/17/98	1800	410	900	8.38	na	na	na	na	na	< 0.1	0.021	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.042	< 0.1	< 0.01	< 0.02	
	07/16/98	1900	301	800	8.2	na	na	na	na	na	0.007	0.019	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.051	< 0.1	< 0.01	0.02	
	07/08/99	2100	360	670	8.0	na	na	na	na	na	< 0.010	0.0191	< 0.0020	< 0.0050	< 0.0020	< 0.010	< 0.025	< 0.00020	0.0517	0.012	< 0.01	< 0.02	
	07/18/00	2040	390	730	8.0	na	na	na	na	na	< 0.010	0.0184	na	na	na	< 0.010	na	< 0.00020	0.0384	na	na	na	
	08/21/01	2290	394	632	3.46	na	na	na	na	na	< 0.05	0.0215	na	na	na	< 0.05	na	< 0.0002	0.0459	na	na	na	
	08/01/02	2000	380	650	7.5	na	na	na	na	na	< 0.010	0.022	na	na	na	< 0.020	na	na	0.061	na	na	na	
	11/30/94	1900	590	330	0.44	247	6	137	221	441	0.006	0.052	< 0.0005	< 0.01	0.014	< 0.05	< 0.002	< 0.0002	0.136	< 0.005	< 0.01	na	
	09/13/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
11/12/96	2010	555	395	na	na	na	na	na	na	< 0.03	0.13	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.41	< 0.04	< 0.01	na		

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)											
		NO ₃ /NO ₃ - N, total										Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
		TDS	Chloride	Sulfate	10	none	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)												
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10	
Dup (MW-17)	02/06/97	2000	575	222	na	na	na	na	na	na	<0.03	0.08	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.44	<0.04	<0.01	<0.03	
	05/10/97	1990	550	263	<0.05	na	na	na	na	na	<0.03	0.27	<0.01	0.02	0.02	8.9	<0.03	<0.0002	0.72	<0.04	<0.01	0.05	
	08/07/97	2020	540	251	0.07	na	na	na	na	na	<0.03	0.06	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.52	<0.04	<0.01	<0.03	
	10/09/97	2100	570	242	<0.05	na	na	na	na	na	<0.03	0.8	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.67	<0.04	<0.01	0.24	
	01/24/98	1740	500	248	<0.05	na	na	na	na	na	<0.03	0.7	<0.01	<0.01	<0.01	0.18	<0.03	<0.0002	0.86	<0.04	<0.01	0.25	
	04/17/98	1300	550	400	0.88	na	na	na	na	na	<0.1	0.071	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	0.543	<0.1	<0.01	<0.02	
	07/17/98	1500	557	400	<0.1	na	na	na	na	na	<0.1	0.071	<0.005	<0.01	<0.01	0.65	<0.05	<0.0002	0.751	<0.1	<0.01	<0.02	
	07/17/98	1500	578	30	<0.1	na	na	na	na	na	0.008	0.063	<0.005	<0.01	<0.01	0.03	<0.05	<0.0002	0.506	<0.005	<0.01	<0.02	
	07/09/99	1900	550	250	0.09	na	na	na	na	na	0.008	0.070	<0.005	<0.01	<0.01	0.09	<0.05	<0.0002	0.654	<0.005	<0.01	<0.02	
	07/09/99	1900	540	250	0.11	na	na	na	na	na	<0.010	0.0731	<0.0020	<0.0050	<0.0020	0.141	<0.025	<0.00020	0.781	<0.010	<0.0030	<0.010	
Dup (MW-17)	07/18/00	1790	580	240	0.02	na	na	na	na	na	<0.010	0.0703	na	na	na	0.082	na	<0.00020	0.734	na	na	na	
	07/18/00	1830	580	240	0.02	na	na	na	na	na	<0.010	0.0712	na	na	na	0.107	na	<0.00020	0.734	na	na	na	
	08/21/01	2430	576	195	<0.01	na	na	na	na	na	<0.05	0.0717	na	na	na	0.0909	na	<0.0002	0.903	na	na	na	
	08/21/01	2460	647	172	0.0813	na	na	na	na	na	<0.05	0.078	na	na	na	0.097	na	<0.0002	0.948	na	na	na	
Dup (MW-18)	08/01/02	1900	490	170	<2.0	na	na	na	na	na	<0.010	0.082	na	na	na	0.026	na	na	0.91	na	na	na	
	08/01/02	1800	510	170	<2.0	na	na	na	na	na	<0.010	0.080	na	na	na	0.024	na	na	0.94	na	na	na	
MW-14	09/13/95	2360	515	700	1.91	276	7	147	170	444	<0.05	0.14	<0.005	<0.01	na	na	<0.05	<0.0002	na	<0.1	<0.01	na	
	11/12/96	2510	550	837	na	na	na	na	na	na	<0.03	0.05	<0.01	<0.01	na	na	<0.03	<0.0002	0.07	<0.04	<0.01	na	
	02/04/97	2510	575	757	na	na	na	na	na	na	<0.03	0.07	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.06	<0.04	<0.01	<0.03	
	05/10/97	2530	520	715	2.2	na	na	na	na	na	<0.03	0.13	<0.01	<0.01	<0.01	1.9	<0.03	<0.0002	0.1	<0.04	<0.01	<0.03	
	08/07/97	2420	520	662	1.9	na	na	na	na	na	<0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.07	<0.04	<0.01	<0.03	
	10/08/97	2490	550	769	2.3	na	na	na	na	na	<0.03	0.73	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	0.11	<0.04	<0.01	0.22	
	01/23/98	2200	500	663	2.9	na	na	na	na	na	<0.03	0.54	<0.01	<0.01	<0.01	0.18	<0.03	<0.0002	0.11	<0.04	<0.01	0.22	
	04/17/98	2000	540	800	3.72	na	na	na	na	na	<0.1	0.018	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	0.080	<0.1	<0.01	<0.02	
	07/17/98	1800	557	700	2.8	na	na	na	na	na	<0.1	0.028	<0.005	<0.01	<0.01	0.03	0.05	<0.0002	0.119	<0.1	<0.01	0.02	
						na	na	na	na	na	0.011	0.021	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	0.136	0.010	<0.01	0.02	

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)											
		NO ₃ /NO ₃ - N, total										Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
		TDS	Chloride	Sulfate	10	none	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)												
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10	
	07/09/99	2400	530	640	2.7	na	na	na	na	na	<0.010	0.0216	<0.0020	<0.0050	0.0025	<0.010	<0.025	<0.00020	0.111	<0.010	<0.0030	<0.010	
	07/18/00	2310	570	690	2.1	na	na	na	na	na	<0.010	0.0182	na	na	na	<0.010	na	<0.00020	0.105	na	na	na	
	08/21/01	2900	593	597	0.817	na	na	na	na	na	<0.05	0.0228	na	na	na	<0.05	na	<0.0002	0.173	na	na	na	
	08/01/02	2300	510	580	1.2	na	na	na	na	na	<0.010	0.026	na	na	na	<0.020	na	na	0.31	na	na	na	
	09/14/95	2500	442	900	13.2	291	6.5	137	206	286	<0.05	0.02	<0.005	<0.01	na	na	<0.05	<0.0002	na	<0.1	0.01	na	
	11/12/96	2420	435	892	na	na	na	na	na	na	<0.03	0.06	<0.01	<0.01	na	na	<0.03	<0.0002	0.02	<0.04	<0.01	na	
	02/04/97	2360	420	924	na	na	na	na	na	na	<0.03	0.03	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	<0.03	
											<0.03	0.17	<0.01	<0.01	<0.01	2.3	<0.03	<0.0002	0.06	<0.04	<0.01	<0.03	
	05/10/97	2530	860	1020	10.2	na	na	na	na	na	<0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	<0.03	
	08/07/97	2510	410	825	10.2	na	na	na	na	na	<0.03	0.63	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	0.26	
	10/08/97	2400	420	941	5.8	na	na	na	na	na	<0.03	0.53	<0.01	<0.01	<0.01	0.19	<0.03	<0.0002	<0.01	<0.04	<0.01	0.23	
	01/23/98	2150	400	766	12.54	na	na	na	na	na	<0.1	0.014	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	<0.005	<0.1	<0.01	<0.02	
	04/16/98	1700	420	1000	19.6	na	na	na	na	na	<0.1	0.020	<0.005	<0.01	<0.01	0.06	<0.05	<0.0002	<0.005	<0.1	<0.01	0.03	
MW16	07/17/98	1800	386	1000	11.9	na	na	na	na	na	0.012	0.018	<0.005	<0.01	<0.01	0.24	<0.05	<0.0002	<0.005	0.020	<0.01	<0.02	
	07/08/99	2100	340	710	13.0	na	na	na	na	na	<0.010	0.0231	<0.0020	<0.0050	<0.0020	0.144	<0.025	<0.00020	0.014	0.016	<0.0030	<0.010	
	07/17/00	1970	350	730	13.0	na	na	na	na	na	<0.010	0.0226	na	na	na	0.042	na	<0.00020	0.002	na	na	na	
	08/21/01	2290	368	736	4.96	na	na	na	na	na	<0.05	0.0283	na	na	na	<0.05	na	<0.0002	<0.01	na	na	na	
	08/01/02	2000	340	740	12	na	na	na	na	na	0.043	0.045	na	na	na	<0.020	na	na	<0.002	na	na	na	
	09/14/95	2570	624	850	2.62	320	9.7	188	211	410	<0.05	0.22	<0.005	0.02	na	na	<0.05	0.0003	na	<0.1	<0.01	na	
	11/12/96	3550	995	1020	na	na	na	na	na	na	<0.03	0.06	<0.01	<0.01	na	na	<0.03	<0.0002	1.21	<0.04	<0.01	na	
	02/04/97	3470	950	830	na	na	na	na	na	na	<0.03	0.05	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	1.1	<0.04	<0.01	<0.03	
											0.07	0.37	<0.01	0.02	0.04	27	0.04	<0.0002	1.8	<0.04	<0.01	0.1	
	05/10/97	3520	420	1110	1.6	na	na	na	na	na	<0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	1.07	<0.04	0.02	0.02	
	08/06/97	3480	860	1010	1.7	na	na	na	na	na	<0.03	0.67	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	1.1	<0.04	0.02	0.29	
	10/08/97	3370	860	904	0.95	na	na	na	na	na	<0.03	0.52	<0.01	<0.01	<0.01	0.26	<0.03	<0.0002	1.14	<0.04	<0.01	0.25	
	01/23/98	2730	800	824	0.91	na	na	na	na	na	<0.1	0.019	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	0.971	<0.1	<0.01	<0.02	

Table 6. Summary of Groundwater Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)											
		TDS	Chloride	Sulfate	NO ₃ /NO ₂ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc	
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10	
	04/16/98	2400	710	1100	1.78	na	na	na	na	na	< 0.1	0.026	< 0.005	< 0.01	< 0.01	0.04	< 0.05	< 0.0002	0.941	< 0.1	< 0.01	< 0.02	
	07/16/98	2500	620	1100	1.2	na	na	na	na	na	< 0.005	0.023	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.913	< 0.005	< 0.01	0.03	
	07/08/99	3200	830	920	1.8	na	na	na	na	na	< 0.010	0.0240	< 0.0020	< 0.0050	0.0020	< 0.010	< 0.025	< 0.00020	0.781	< 0.010	< 0.0030	< 0.010	
	07/17/00	3080	890	1000	2.1	na	na	na	na	na	< 0.010	0.0204	na	na	na	0.0140	na	< 0.00020	0.957	na	na	na	
	08/21/01	3530	809	937	0.295	na	na	na	na	na	< 0.05	0.019	na	na	na	< 0.05	na	< 0.0002	1.52	na	na	na	
	08/01/02	3000	690	930	1.5	na	na	na	na	na	0.040	0.028	na	na	na	< 0.020	na	na	0.85	na	na	na	
	07/18/01	1870	300	< 3.0	0.03	na	na	na	na	na	0.067	30.7	na	na	na	6.79	na	0.00020	0.0257	na	na	na	
	08/21/01	2030	193	6.69	< 0.01	na	na	na	na	na	0.109	8.71	na	na	na	0.531	na	< 0.0002	0.0112	na	na	na	
08/01/02	1700	190	< 5.0	< 2.0	na	na	na	na	na	0.21	29	na	na	na	0.29	na	na	0.010	na	na	na		

NOTES:
na - Analysis for this constituent was not run on samples collected during this sample event

**Table 7. Summary of Completion Details for Soil Borings Completed as Wells
TW WT-1 Station Engine Room Pit Area**

Well	Source ^a	Date of Completion	Measuring Point Elevation ^b (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-1	SH&B/B&R	08/12/92	3,547.65	-36.2	-661.8	53.5	55.04	Stickup	2	43.5-53.5	41.0
MW-2	SH&B/B&R	09/01/92	3,546.28	-2.8	-552.0	50.0	52.31	Stickup	2	40-50	38.0
MW-3	SH&B/B&R	08/28/92	3,548.99	-174.5	-619.3	48.5	50.00	Flush Mount	2	38.5-48.5	35.5
MW-4	Eades/DBS&A	11/29/94	3,548.29	-322.5	-664.2	80.0	58.25	Flush Mount	2	43.5-58.5	41.0
MW-5	Eades/DBS&A	11/29/94	3,543.60	52.4	-642.0	59.6	59.75	Flush Mount	2	44.6-59.6	41.0
MW-6	Eades/DBS&A	11/28/94	3,543.33	132.1	-834.3	61.0	61.20	Flush Mount	2	46-61	42.5
MW-7	Eades/DBS&A	11/21/94	3,542.00	129.5	-470.6	56.0	54.88	Flush Mount	2	40-55	37.0
MW-8	Eades/DBS&A	11/20/94	3,541.49	195.3	-639.1	59.0	59.20	Flush Mount	2	44-59	42.0
MW-14	Eades/DBS&A	09/11/95	3,539.73	353.3	-671.4	61.0	60.25	Flush Mount	2	45.5-60.5	43.0
MW-15	Eades/DBS&A	09/12/95	3,542.82	-84.1	-345.5	60.5	57.85	Flush Mount	2	43-58	40.5
MW-16	Eades/DBS&A	09/12/95	3,545.68	-76.1	-930.0	61.0	60.02	Flush Mount	2	45-60	42.0
SVE-1A	Eades/DBS&A	11/18/94	3,545.59	-73.0	-616.0	53.0	52.63	Flush Mount	2	42.5-52.5	41.2
SVE-1B	Eades/DBS&A	11/18/94	3,545.61	-73.0	-616.0	37.5	NA	Flush Mount	2	21-36	18.3
RW-1	GPI/CES	09/07/00	3,545.97	-4.6	-507.7	60.2	62.36	Stickup	4.5	Open hole 43-60.2	None
RW-2	GPI/CES	09/08/00	3,546.26	-3.1	-536.5	60.4	62.45	Stickup	4.5	Open hole 43-60.4	None
RW-3	GPI/CES	09/09/00	3,546.41	-3.1	-566.3	60.0	61.65	Stickup	4.5	Open hole 43-60	None
RW-4	GPI/CES	09/10/00	3,546.96	-2.9	-597.4	60.0	62.10	Stickup	4.5	Open hole 43-60	None
RW-5	GPI/CES	09/11/00	3,546.75	-3.9	-627.0	60.0	62.35	Stickup	4.5	Open hole 43-60	None
RW-6	GPI/CES	09/12/00	3,546.69	-4.0	-656.5	60.0	62.12	Stickup	4.5	Open hole 43-60	None
RW-7	GPI/CES	09/13/00	3,547.50	-3.7	-687.2	60.2	62.52	Stickup	4.5	Open hole 43-60.2	None
RW-8	GPI/CES	09/14/00	3,547.04	-4.2	-716.3	60.1	62.17	Stickup	4.5	Open hole 43-60.1	None

Table 7. Summary of Completion Details for Soil Borings Completed as Wells
TW WT-1 Station Engine Room Pit Area

Well	Source ^a	Date of Completion	Measuring Point Elevation ^b (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)
RW-9	GPI/CES	09/20/00	3,545.84	-54.9	-690.0	60.2	59.98	Stickup	4.5	Open hole 43-60.2	None
RW-10	GPI/CES	09/21/00	3,546.32	-107.0	-661.4	60.1	59.90	Stickup	4.5	Open hole 43-60.1	None
RW-11	GPI/CES	09/22/00	3,545.74	-107.8	-568.2	60.2	59.97	Stickup	4.5	Open hole 43-60.2	None
RW-12	GPI/CES	09/23/00	3,544.43	-55.4	-541.4	60.2	60.09	Stickup	4.5	Open hole 43-60.2	None
NOTES: (a) Driller/Consultant (b) Survey by John W. West Engineering											

**Table 8. Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan
TW WT-1 Station Engine Room Pit Area**

Well ID	Analytical Requirements		1,1-DCA (ppb) Latest Result	Comments
	1st Semiannual Event	2nd Semiannual Event		
MW-1	VOC's	VOC's & Inorganics	470	
MW-2	na	na	na	Well contains PSH
MW-3	na	na	na	Well abandoned
MW-4	VOC's	VOC's & Inorganics	1.8	
MW-5	VOC's	VOC's & Inorganics	130	
MW-6	VOC's	VOC's & Inorganics	11	
MW-7	VOC's	VOC's & Inorganics	30	
MW-8	VOC's	VOC's & Inorganics	130	
MW-14	VOC's	VOC's & Inorganics	37	
MW-15	VOC's	VOC's & Inorganics	3.6	
MW-16	VOC's	VOC's & Inorganics	2.9	
SVE-1A	VOC's	VOC's & Inorganics	480	
Notes: 1) Voc's by 8260 2) Inorganics include TDS, Cl, NO2/NO3 as N, As, Ba, Fe & Mn 3) "Comments" are provided for wells that will not be sampled during one or more events				



Cypress Engineering

DP-109
10235 West Little York Road, Suite 256
Houston, Texas 77040

(713) 856-7980 office
(713) 856-7981 fax

February 5, 2002

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

FEB 11 2002

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: Report of Ground Water Remediation Activities
Transwestern Pipeline Company - WT-1 Station Engine Room Drain Pit Area
Lea County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for reporting of ground water remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (713) 345-1537 or Larry Campbell at (505) 625-8022.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment: Larry Campbell
Larry Johnson

Transwestern Pipeline Company
NMOCD Hobbs District Office

**ANNUAL REPORT OF GROUNDWATER
REMEDATION ACTIVITIES AT THE
WT-1 COMPRESSOR STATION
ENGINE ROOM DRAIN PIT AREA**

**Prepared for:
Transwestern Pipeline Company**

**Prepared by:
Cypress Engineering Services, Inc.
10235 West Little York Road, Suite 256
Houston, TX 77040**

February 5, 2002

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1. Installation of Additional Remediation Wells

1.1 Installation of Twelve Groundwater Recovery Wells

Twelve groundwater recovery wells were installed in October 2000 in the vicinity of the engine room drain pit area. The locations of the wells are indicated in Figure 2 as wells RW-1 through RW-12. The recovery wells were installed in order to delineate the lateral extent of phase-separated hydrocarbons (PSH) and, if necessary, to facilitate the removal of PSH from the surface of the groundwater. A summary of completion details for the recovery wells can be found in Table 7. A boring log for each recovery well is included as an attachment to this report.

Well construction details for the recovery wells can be summarized as follows:

- An 8-inch borehole was air-drilled to 43 feet below ground surface (bgs).
- A 4.5-inch diameter surface casing was installed from 43 feet bgs to two feet above ground surface.
- A 5% bentonite grout was poured into the annulus between the borehole and the casing to seal the well and set the surface casing.
- A 4-inch borehole was air-drilled through the surface casing from 43 feet bgs to approximately 60 feet bgs to complete the recovery well installation. To enhance PSH recovery, no sand filter pack, no well screen and no well casing were installed from 43 feet to 60 feet bgs.

1.2 Abandonment of Monitor Well MW-3

Monitor well MW-3 was abandoned on January 8, 2000. Upon installation the well had been completed too shallow to produce a sufficient volume of water for the collection of groundwater samples for monitoring purposes. Furthermore, the well was located in an area that presented a safety hazard for vehicle traffic. In light of these considerations the well was abandoned. This was accomplished by filling the well casing with cement grout and then removing the casing and surface pad to a depth of about one foot below ground surface.

2. Groundwater Monitoring Activities

2.1 Semi-Annual Groundwater Sampling Events

Four semi-annual groundwater-sampling events have been completed since the last report of remediation activities. These events were completed in January 2000, July 2000, February 2001 and August 2001.

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 is presented in Table 1. Similar measurements obtained from the recovery wells are presented in Table 2.

Groundwater samples were collected from selected monitoring and SVE wells at the site. Samples were not collected from wells with accumulated PSH in the well casing. Groundwater samples were delivered to a laboratory for analysis by EPA Method 8260 for volatile organic compounds (including benzene, toluene, ethylbenzene and xylene), selected inorganic constituents by EPA Methods 6010 or 7470 (mercury), total dissolved solids by EPA Method 160.1, chlorides by EPA Method 325.2, nitrate and nitrite by EPA Method 353.1, and sulfate by EPA Method 375.4. A summary of field measured groundwater quality parameters (pH, temperature, electrical conductivity and dissolved oxygen) is presented in Table 3. A summary of organic and inorganic laboratory results is presented in Tables 4, 5, and 6. A copy of the laboratory results for each of the sampling events is included as an attachment to this report.

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 August 2001 sampling event is included as Figure 3. The apparent direction of groundwater flow is consistent with water table elevation maps previously developed for this site.

2.2.2 Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH is currently defined by the occurrence of PSH at the water table in monitor well MW-2 and the absence of PSH in all other wells. The thickness of accumulated PSH in monitor well MW-2 can not accurately be measured due to the limited depth of screened interval below the water table, however, the most recent measured thickness between the depth to PSH and the total depth of the well is on the order of 0.4 feet.

2.2.3 Condition of Affected Groundwater

The condition of affected groundwater, based on the recent sampling events, has not changed significantly from previous sampling events as evidenced by the information presented in Table 4 and Table 6. The primary constituents of concern are benzene, 1,1-dichloroethane, and trichloroethene. Distribution maps for BTEX, selected halogenated compounds, and selected inorganic constituents are included as Figure 4, Figure 5, and Figure 6, respectively.

3. Status of Remediation Activities

3.1 Remediation Activities Completed through December 2001

The following remediation activities have been completed since the last report of groundwater remediation activities:

- 1) Twelve recovery wells were installed for the purpose of delineating the lateral extent of PSH and to provide recovery points in the event PSH recovery becomes necessary.
- 2) PSH is bailed from monitoring well MW-2 twice a month. There is no appreciable accumulation of PSH in any of the recovery wells and therefore there is no PSH recovery from any of these wells.
- 3) Four groundwater-sampling events were completed.

4. Proposed Modifications

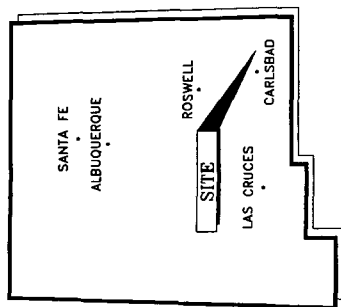
4.1 Modifications to the Routine Groundwater Sampling Plan

Sampling location, frequency and the sampling analysis plan will continue on a semi-annual basis. A summary of the sample analysis plan is presented in Table 8.

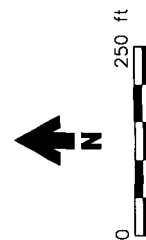
4.2 Reporting Frequency

Annual reporting will continue with the next scheduled report being submitted to the OCD by January 31, 2003.

FORMER ENGINE ROOM DRAIN AND FILTER PIT REMEDIATION AREA

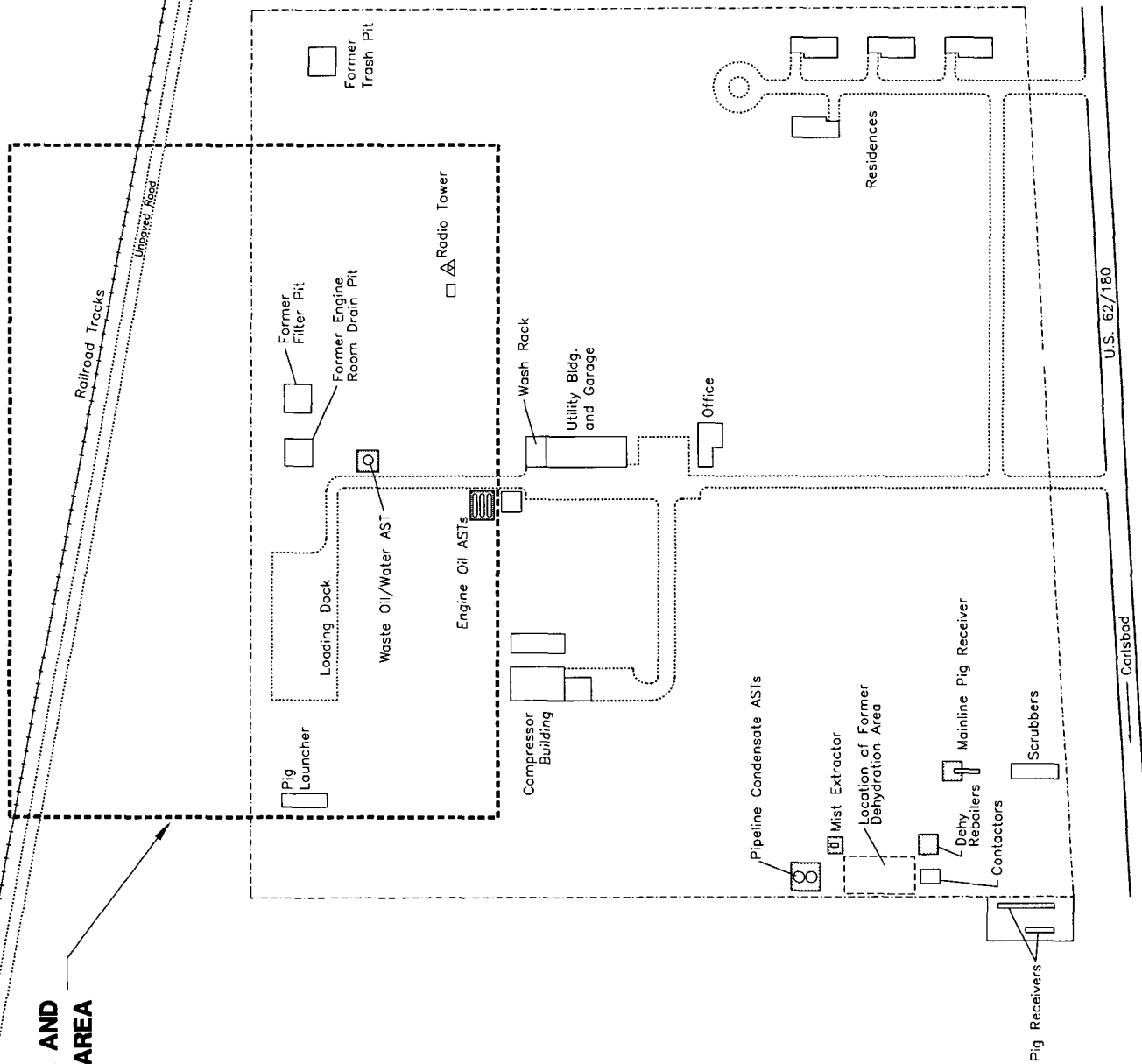


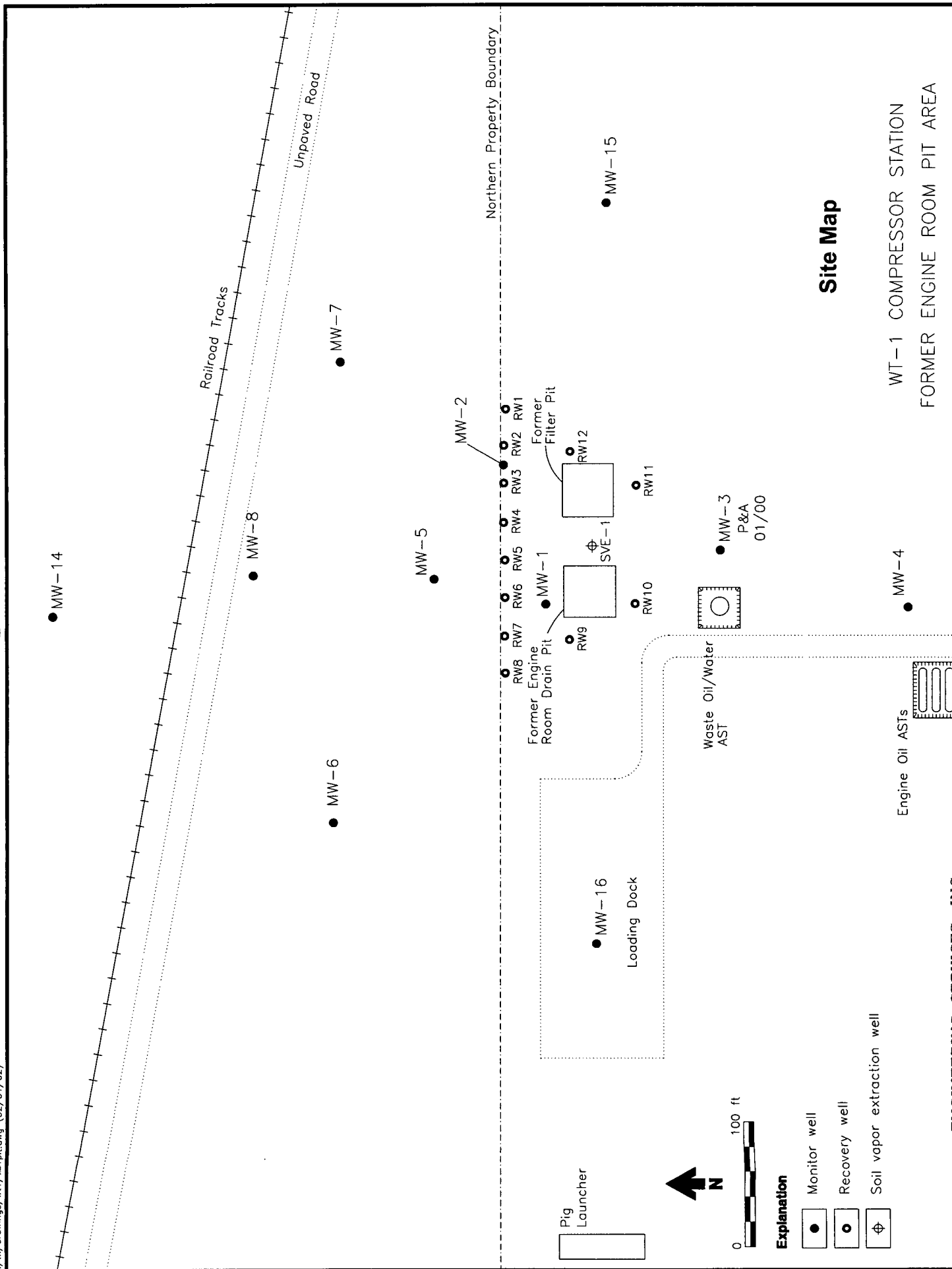
STATE OF NEW MEXICO



Explanation

- Fence
- Containment wall





Site Map

WT-1 COMPRESSOR STATION
FORMER ENGINE ROOM PIT AREA

Figure 2

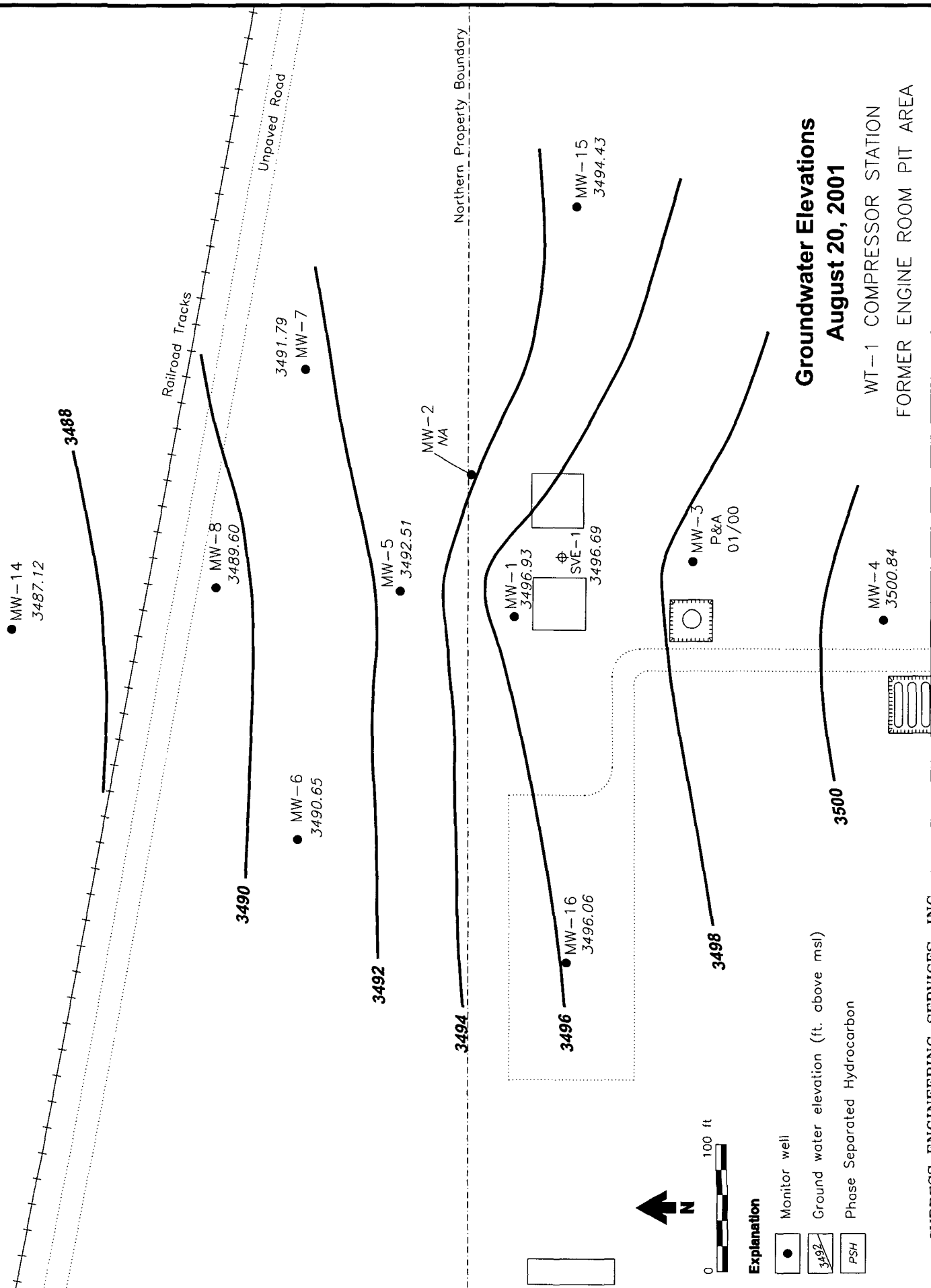


Figure 3

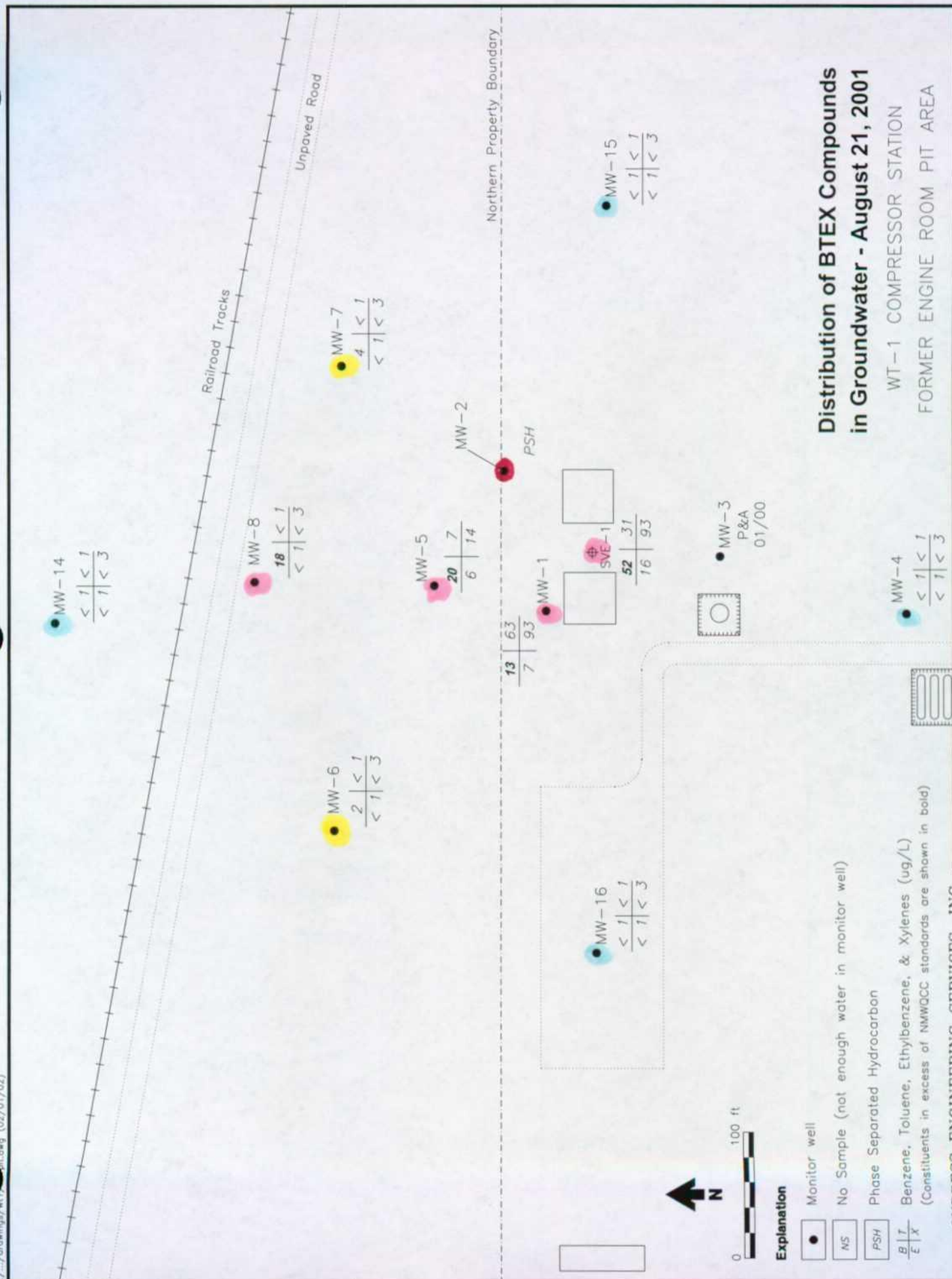


Figure 4

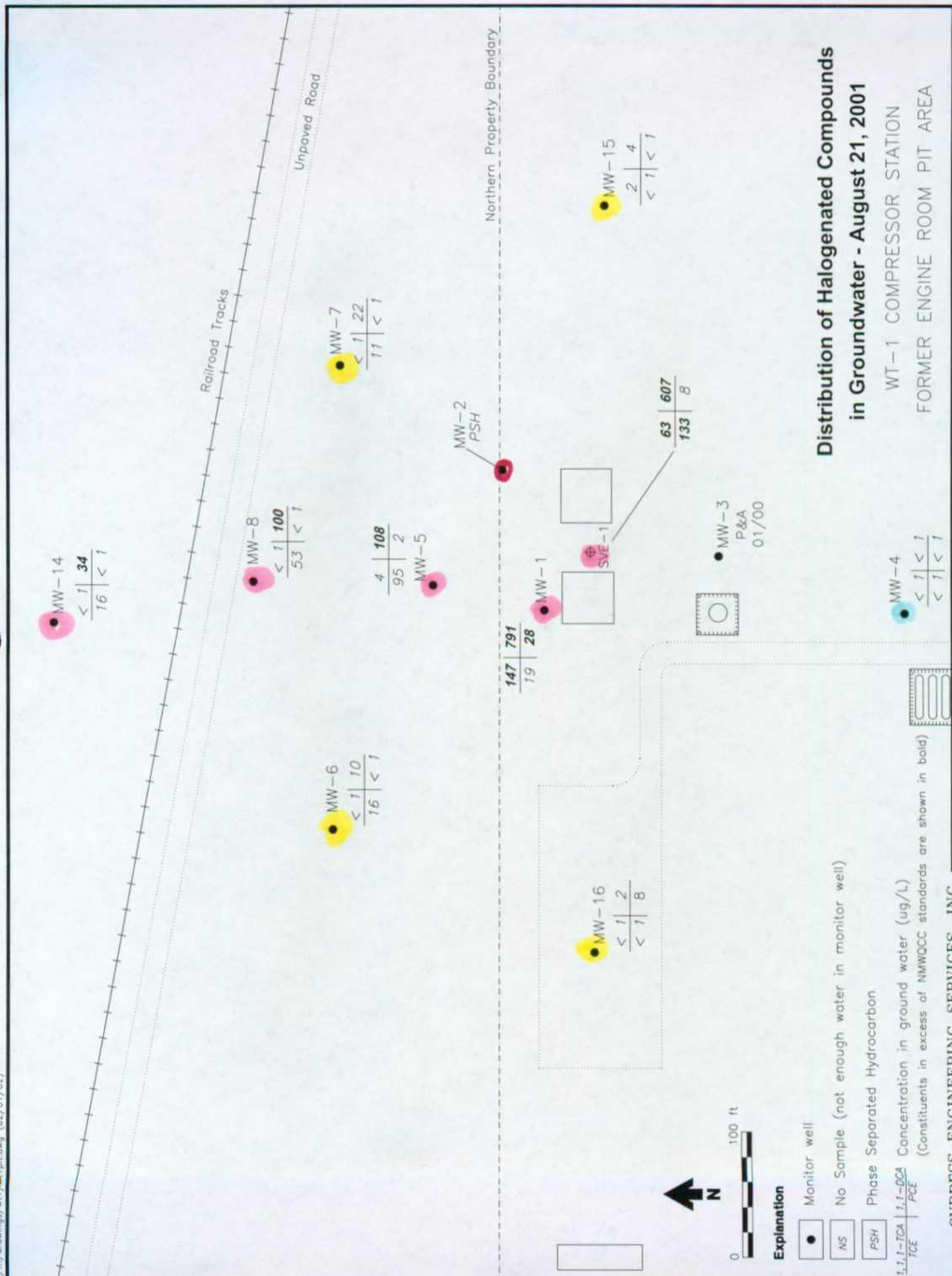


Figure 5

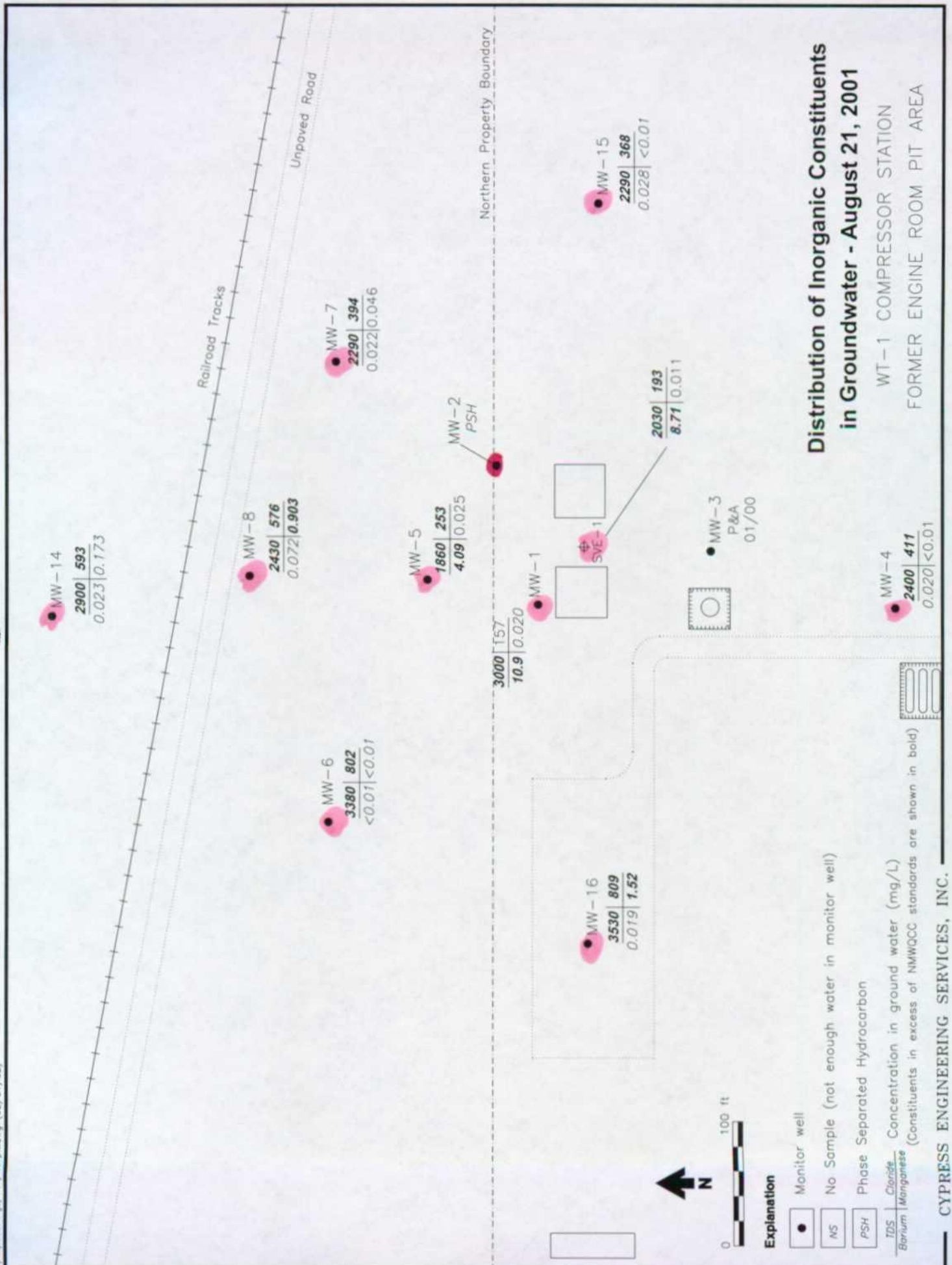


Figure 6

**Table 1. Summary of Ground Water Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-1	11/15/94	3547.67	(a)	47.59	(a)	3500.08
	09/14/95		(a)	48.85	(a)	3498.82
	11/12/96		(a)	49.79	(a)	3497.88
	02/04/97		(a)	49.71	(a)	3497.96
	05/10/97		(a)	49.86	(a)	3497.81
	08/06/97		(a)	49.90	(a)	3497.77
	10/08/97		(a)	49.76	(a)	3497.91
	01/21/98		(a)	50.73	(a)	3496.94
	04/15/98		(a)	49.68	(a)	3497.99
	07/16/98		(a)	49.91	(a)	3497.76
	01/26/99		(a)	49.39	(a)	3498.28
	07/08/99		sheen	49.52	(a)	3498.15
	01/26/00		sheen	49.43	(a)	3498.24
	07/17/00		sheen	50.04	(a)	3497.63
	11/21/00	3547.65 (c)	(a)	50.66	(a)	3496.99
	02/17/01		sheen	50.73	(a)	3496.92
	08/20/01		(a)	50.72	sheen	3496.93
MW-2	11/15/94	3546.28	PSH	-	-	NA
	09/12/95		PSH	-	-	NA
	11/12/96		49.91	-	NA *	NA *
	02/04/97		49.90	52.15	2.25	3495.93
	05/10/97		50.09	52.18	2.09	3495.77
	08/06/97		50.20	52.17	1.97	3495.69
	10/09/97		50.27	52.22	1.95	3495.62
	01/21/98		50.08	--	NA *	NA *
	04/15/98		49.97	--	NA *	NA *
	07/16/98		50.25	--	NA *	NA *
	01/26/99		50.10	--	NA *	NA *
	07/08/99		50.12	--	NA *	NA *
	01/26/00		50.54	52.17	1.63	3495.41
	07/17/00		50.62	--	NA *	NA *
	11/21/00	3546.28 (c)	50.95	--	NA *	NA *
	02/17/01		51.08	52.23	1.15	3494.97
	08/20/01		51.82	--	NA *	NA *
MW-3	11/16/94	3548.99	(a)	48.71	(a)	3500.28
	09/12/95		(a)	49.49	(a)	3499.50
	11/12/96		(a)	49.76	(a)	3499.23
	02/04/97		(a)	49.57	(a)	3499.42
	05/10/97		(a)	49.81	(a)	3499.18
	08/06/97		(a)	49.81	(a)	3499.18
	10/08/97		(a)	49.84	(a)	3499.15
	01/21/98		(a)	49.29	(a)	3499.70
	07/16/98		(a)	49.42	(a)	3499.57
	01/26/99		(a)	48.62	(a)	3500.37
	07/08/99		(a)	48.99	(a)	3500.00

**Table 1. Summary of Ground Water Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-4	12/01/94	3548.29	(a)	47.18	(a)	3501.11
	09/12/95		(a)	47.50	(a)	3500.79
	11/12/96		(a)	47.50	(a)	3500.79
	02/04/97		(a)	47.51	(a)	3500.78
	05/10/97		(a)	47.51	(a)	3500.78
	08/06/97		(a)	47.49	(a)	3500.80
	10/08/97		(a)	47.43	(a)	3500.86
	01/21/98		(a)	47.02	(a)	3501.27
	04/16/98		(a)	46.81	(a)	3501.48
	07/16/98		(a)	46.75	(a)	3501.54
	01/26/99		(a)	46.36	(a)	3501.93
	07/08/99		(a)	46.76	(a)	3501.53
	01/26/00		(a)	46.91	(a)	3501.38
	07/17/00		(a)	47.33	(a)	3500.96
	11/21/00	3548.29 (c)	(a)	47.51	(a)	3500.78
	02/17/01		(a)	47.46	(a)	3500.83
	08/20/01		(a)	47.45	(a)	3500.84
MW-5	12/01/94	3543.59	(a)	48.68	(a)	3494.91
	09/12/95		(a)	49.48	(a)	3494.11
	11/12/96		(a)	50.12	(a)	3493.47
	02/04/97		(a)	50.11	(a)	3493.48
	05/10/97		(a)	50.35	(a)	3493.24
	08/06/97		(a)	50.40	(a)	3493.19
	10/08/97		(a)	50.18	(a)	3493.41
	01/21/98		(a)	50.13	(a)	3493.46
	04/15/98		(a)	50.15	(a)	3493.44
	07/16/98		(a)	50.45	(a)	3493.14
	01/26/99		(a)	50.04	(a)	3493.55
	07/08/99		(a)	50.21	(a)	3493.38
	01/26/00		(a)	50.07	(a)	3493.52
	07/17/00		(a)	50.53	(a)	3493.06
	11/21/00	3543.60 (c)	(a)	50.98	(a)	3492.62
	02/17/01		(a)	51.04	(a)	3492.56
	08/20/01		(a)	51.09	(a)	3492.51
MW-6	11/30/94	3543.29	(a)	50.22	(a)	3493.07
	09/12/95		(a)	50.97	(a)	3492.32
	11/12/96		(a)	51.93	(a)	3491.36
	02/04/97		(a)	51.93	(a)	3491.36
	05/10/97		(a)	52.08	(a)	3491.21
	08/06/97		(a)	52.11	(a)	3491.18
	10/08/97		(a)	51.88	(a)	3491.41
	01/21/98		(a)	51.72	(a)	3491.57
	04/15/98		(a)	51.63	(a)	3491.66
	07/16/98		(a)	51.87	(a)	3491.42
	01/26/99		(a)	51.39	(a)	3491.90
	07/08/99		(a)	51.65	(a)	3491.64
	01/26/00		(a)	51.59	(a)	3491.70
	07/17/00		(a)	52.11	(a)	3491.18
	11/21/00	3543.33 (c)	(a)	52.64	(a)	3490.69
	02/17/01		(a)	52.74	(a)	3490.59
	08/20/01		(a)	52.68	(a)	3490.65

**Table 1. Summary of Ground Water Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-7	11/30/94	3541.97	(a)	47.67	(a)	3494.30
	09/12/95		(a)	48.54	(a)	3493.43
	11/12/96		(a)	48.67	(a)	3493.30
	02/04/97		(a)	48.83	(a)	3493.14
	05/10/97		(a)	49.05	(a)	3492.92
	08/06/97		(a)	48.96	(a)	3493.01
	10/08/97		(a)	48.74	(a)	3493.23
	01/21/98		(a)	48.65	(a)	3493.32
	04/15/98		(a)	48.71	(a)	3493.26
	07/16/98		(a)	49.12	(a)	3492.85
	01/26/99		(a)	48.70	(a)	3493.27
	07/08/99		(a)	48.96	(a)	3493.01
	01/26/00		(a)	48.72	(a)	3493.25
	07/17/00		(a)	49.25	(a)	3492.72
	11/21/00	3542.00 (c)	(a)	50.18	(a)	3491.82
	02/17/01		(a)	49.82	(a)	3492.18
	08/20/01		(a)	50.21	(a)	3491.79
MW-8	11/30/94	3541.47	(a)	49.20	(a)	3492.27
	09/13/95		(a)	50.14	(a)	3491.33
	11/12/96		(a)	50.73	(a)	3490.74
	02/04/97		(a)	50.79	(a)	3490.68
	05/10/97		(a)	51.03	(a)	3490.44
	08/06/97		(a)	51.08	(a)	3490.39
	10/08/97		(a)	50.90	(a)	3490.57
	01/21/98		(a)	50.73	(a)	3490.74
	04/15/98		(a)	49.62	(a)	3491.85
	07/16/98		(a)	50.96	(a)	3490.51
	01/26/99		(a)	50.55	(a)	3490.92
	07/08/99		(a)	50.84	(a)	3490.63
	01/26/00		(a)	50.72	(a)	3490.75
	07/17/00		(a)	51.23	(a)	3490.24
	11/21/00	3541.49 (c)	(a)	51.75	(a)	3489.74
	02/17/01		(a)	51.93	(a)	3489.56
	08/20/01		(a)	51.89	(a)	3489.60
MW-14	09/13/95	3539.71	(a)	51.53	(a)	3488.18
	11/12/96		(a)	51.96	(a)	3487.75
	02/04/97		(a)	52.00	(a)	3487.71
	05/10/97		(a)	52.12	(a)	3487.59
	08/06/97		(a)	52.11	(a)	3487.60
	10/08/97		(a)	51.95	(a)	3487.76
	01/21/98		(a)	51.88	(a)	3487.83
	04/15/98		(a)	51.83	(a)	3487.88
	07/16/98		(a)	52.09	(a)	3487.62
	01/26/99		(a)	51.72	(a)	3487.99
	07/08/99		(a)	51.95	(a)	3487.76
	01/26/00		(a)	51.77	(a)	3487.94
	07/17/00		(a)	52.17	(a)	3487.54
	11/21/00	3539.73 (c)	(a)	52.60	(a)	3487.13
	02/17/01		(a)	53.69	(a)	3486.04
	08/20/01		(a)	52.61	(a)	3487.12

**Table 1. Summary of Ground Water Surface Elevations
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
MW-15	09/14/95	3542.82	(a)	46.43	(a)	3496.39
	11/12/96		(a)	46.61	(a)	3496.21
	02/04/97		(a)	46.90	(a)	3495.92
	05/10/97		(a)	47.23	(a)	3495.59
	08/06/97		(a)	46.97	(a)	3495.85
	10/08/97		(a)	46.75	(a)	3496.07
	01/21/98		(a)	46.62	(a)	3496.20
	04/15/98		(a)	46.81	(a)	3496.01
	07/16/98		(a)	47.24	(a)	3495.58
	01/26/99		(a)	46.71	(a)	3496.11
	07/08/99		(a)	46.99	(a)	3495.83
	01/26/00		(a)	46.88	(a)	3495.94
	07/17/00		(a)	47.54	(a)	3495.28
	11/21/00	3542.82 (c)	(a)	48.06	(a)	3494.76
	02/17/01		(a)	48.24	(a)	3494.58
	08/20/01		(a)	48.39	(a)	3494.43
MW-16	09/14/95	3546.01	(a)	48.86	(a)	3497.15
	11/12/96		(a)	49.42	(a)	3496.59
	02/04/97		(a)	49.41	(a)	3496.60
	05/10/97		(a)	49.51	(a)	3496.50
	08/06/97		(a)	49.57	(a)	3496.44
	10/08/97		(a)	49.36	(a)	3496.65
	01/21/98		(a)	49.00	(a)	3497.01
	04/15/98		(a)	48.84	(a)	3497.17
	07/16/98		(a)	49.02	(a)	3496.99
	01/26/99		(a)	48.46	(a)	3497.55
	07/08/99		(a)	48.79	(a)	3497.22
	01/26/00		(a)	48.96	(a)	3497.05
	07/17/00		(a)	49.18	(a)	3496.83
	11/21/00	3545.68 (c)	(a)	49.65	(a)	3496.03
	02/17/01		(a)	49.73	(a)	3495.95
	08/20/01		(a)	49.62	(a)	3496.06
SVE-1A	01/26/00	3545.58	(a)	47.33	(a)	3498.25
	07/17/00		(a)	47.95	(a)	3497.63
	11/21/00	3545.59 (c)	(a)	48.56	(a)	3497.03
	02/17/01		(a)	48.71	(a)	3496.88
	08/20/01		(a)	48.90	(a)	3496.69

NOTES:

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

(b) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.88 (0.80 used for 07/17/00 and prior)

(c) Survey by John West Surveying Co. on October 31, 2000.

NA* - No PSH/water interface detected

**Table 2. Summary of Ground Water Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-1	11/21/00*	3545.97 (c)	51.86	51.87	0.01	3494.11
	11/30/00		(a)	51.67	sheen	3494.30
	12/06/00		(a)	51.91	sheen	3494.06
	01/25/01		(a)	51.78	sheen	3494.19
	02/06/01		51.67	51.68	0.01	3494.30
	02/17/01*		52.07	52.08	0.01	3493.90
	02/23/01		(a)	51.50	sheen	3494.47
	03/09/01		(a)	51.61	sheen	3494.36
	08/20/01		(a)	52.18	sheen	3493.79
RW-2	11/21/00*	3546.26 (c)	(a)	52.18	(a)	3494.08
	11/30/00		(a)	51.96	(a)	3494.30
	12/06/00		(a)	52.61	sheen	3493.65
	01/25/01		(a)	52.05	sheen	3494.21
	02/06/01		(a)	51.94	sheen	3494.32
	02/17/01*		(a)	52.38	sheen	3493.88
	02/23/01		(a)	51.75	sheen	3494.51
	03/09/01		(a)	51.80	sheen	3494.46
	08/20/01		(a)	52.42	sheen	3493.84
RW-3	11/21/00*	3546.41 (c)	52.27	52.29	0.02	3494.14
	11/30/00		52.02	52.07	0.05	3494.38
	12/06/00		52.12	52.13	0.01	3494.29
	01/25/01		52.13	52.19	0.06	3494.27
	02/06/01		51.92	52.00	0.08	3494.47
	02/17/01*		52.41	52.43	0.02	3494.00
	02/23/01		51.80	51.83	0.03	3494.60
	03/09/01		51.81	51.84	0.03	3494.59
	03/30/01		50.92	50.94	0.02	3495.49
RW-4	08/20/01		(a)	52.42	(a)	3493.99
	11/21/00*	3546.96 (c)	(a)	52.45	(a)	3494.51
	11/30/00		(a)	52.20	sheen	
	12/06/00		(a)	52.33	(a)	
	01/25/01		(a)	52.29	(a)	3494.67
	02/06/01		(a)	52.09	(a)	3494.87
	02/17/01*		(a)	52.52	(a)	3494.44
	02/23/01		(a)	51.97	(a)	3494.99
	03/09/01		(a)	52.01	(a)	3494.95
	03/30/01		(a)	52.06	sheen	3494.90
RW-5	08/20/01		(a)	52.55	(a)	3494.41
	11/21/00*	3546.75 (c)	(a)	50.76	(a)	3495.99
	11/30/00		(a)	50.56	(a)	3496.19
	12/06/00		(a)	50.78	sheen	3495.97
	01/25/01		(a)	50.64	(a)	3496.11
	02/06/01		(a)	50.54	(a)	3496.21
	02/17/01*		(a)	50.98	(a)	3495.77
	02/23/01		(a)	50.39	(a)	3496.36
	03/09/01		(a)	50.44	(a)	3496.31
	03/30/01		(a)	50.60	(a)	3496.15
RW-5	08/20/01		(a)	50.95	(a)	3495.80

**Table 2. Summary of Ground Water Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-6	11/21/00*	3546.69 (c)	(a)	50.72	(a)	3495.97
	11/30/00		(a)	50.47	(a)	3496.22
	12/06/00		(a)	50.71	sheen	3495.98
	01/25/01		(a)	50.53	(a)	3496.16
	02/06/01		(a)	50.32	(a)	3496.37
	02/17/01*		(a)	50.87	(a)	3495.82
	02/23/01		(a)	50.20	(a)	3496.49
	03/09/01		(a)	50.27	(a)	3496.42
	03/30/01		(a)	50.39	(a)	3496.30
	08/20/01		(a)	50.82	(a)	3495.87
RW-7	11/21/00*	3547.50 (c)	(a)	51.27	(a)	3496.23
	11/30/00		(a)	51.01	(a)	3496.49
	12/06/00		(a)	51.22	sheen	3496.28
	01/25/01		(a)	51.10	(a)	3496.40
	02/06/01		(a)	50.92	sheen	3496.58
	02/17/01*		(a)	51.42	(a)	3496.08
	02/23/01		(a)	50.77	(a)	3496.73
	03/09/01		(a)	50.76	(a)	3496.74
	03/30/01		(a)	50.93	(a)	3496.57
	08/20/01		(a)	51.35	(a)	3496.15
RW-8	11/21/00*	3547.04 (c)	(a)	50.20	(a)	3496.84
	11/30/00		(a)	50.06	sheen	3496.98
	12/06/00		(a)	50.28	(a)	3496.76
	01/25/01		(a)	50.14	(a)	3496.90
	02/06/01		(a)	50.05	sheen	3496.99
	02/17/01*		(a)	50.42	(a)	3496.62
	02/23/01		(a)	49.95	(a)	3497.09
	03/09/01		(a)	50.01	(a)	3497.03
	03/30/01		(a)	50.09	(a)	3496.95
	08/20/01		(a)	50.40	(a)	3496.64
RW-9	11/21/00*	3545.84 (c)	(a)	48.41	(a)	3497.43
	11/30/00		(a)	48.17	sheen	3497.67
	12/06/00		(a)	43.42	(a)	3502.42
	01/25/01		(a)	48.25	(a)	3497.59
	02/06/01		(a)	48.12	(a)	3497.72
	02/17/01*		(a)	48.60	(a)	3497.24
	02/23/01		(a)	47.94	(a)	3497.90
	03/09/01		(a)	47.99	(a)	3497.85
	08/20/01		(a)	48.52	(a)	3497.32
RW-10	11/21/00*	3546.32 (c)	(a)	48.36	(a)	3497.96
	11/30/00		(a)	48.13	(a)	3498.19
	12/06/00		(a)	48.40	(a)	3497.92
	01/25/01		(a)	48.43	(a)	3497.89
	02/06/01		(a)	48.11	(a)	3498.21
	02/17/01*		(a)	48.60	(a)	3497.72
	02/23/01		(a)	47.92	(a)	3498.40
	03/09/01		(a)	50.01	(a)	3496.31
	08/20/01		(a)	48.57	(a)	3497.75

**Table 2. Summary of Ground Water Surface Elevations - Recovery Wells
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Top of Casing (ft)	Depth to PSH (ft)	Depth to Water (ft)	PSH (ft)	Surface Elevation (ft)
RW-11	11/21/00*	3545.74 (c)	(a)	48.51	(a)	3497.23
	11/30/00		(a)	48.01	(a)	3497.73
	12/06/00		(a)	48.55	(a)	3497.19
	01/25/01		(a)	48.24	(a)	3497.50
	02/06/01		(a)	48.30	(a)	3497.44
	02/17/01*		(a)	48.76	(a)	3496.98
	02/23/01		(a)	48.12	(a)	3497.62
	03/09/01		(a)	48.19	(a)	3497.55
	08/20/01		(a)	48.90	(a)	3496.84
RW-12	11/21/00*	3544.43 (c)	(a)	49.44	(a)	3494.99
	11/30/00		(a)	49.11	(a)	3495.32
	12/06/00		(a)	49.17	(a)	3495.26
	01/25/01		(a)	49.53	(a)	3494.90
	02/06/01		(a)	49.24	(a)	3495.19
	02/17/01*		(a)	49.70	(a)	3494.73
	02/23/01		(a)	49.07	(a)	3495.36
	03/09/01		(a)	49.14	(a)	3495.29
	08/20/01		(a)	49.77	(a)	3494.66

NOTES:

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

(b) Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming a specific gravity of 0.88 (0.80 used for 07/17/00 and prior)

(c) Survey by John West Surveying Co. on October 31, 2000.

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
MW-1	11/12/96	0.0	6.67	22.2	—	—	strong mercaptin odor, bailed dry 1 gal
	02/04/97	0.0	6.70	17.3	3,100	39.3/127	strong odor, blk color, bailed dry 1 gal
	05/10/96	—	6.92	21.8	3,110	62.0	strong odor, blk/gry color
	08/08/97	0.0	6.88	20.3	3,260	101	clear to gray, strong odor
	10/09/97	1.2	6.89	21.6	3,080	—	gray blk, strong odor
	01/23/98	0.0	6.65	17.1	2,970	—	strong odor, amber color
	04/17/98	0.9	6.96	19.9	3,070	58.0	clear, gold tint, strong odor
	07/17/98	0.1	6.91	22.4	3,400	9.97	clear, light tint, strong odor
	01/27/99	—	6.81	20.8	3,020	—	clear, odor
	08/21/01	0.8	6.78	23.4	2,380	—	gray odor, pumped dry @ 1 gallon purged
MW-4	11/12/96	—	7.10	20.8	—	—	clear, no odor
	02/04/97	4.0	7.17	17.5	3,400	41.8/32	fine red silt, no odor
	05/10/97	3.0	7.09	19.7	3,400	5.46	very slight brn silt, mostly clear
	08/06/97	3.5	7.02	21.7	3,390	45.2	red silty
	10/08/97	3.0	7.05	21.5	3,060	—	slightly silty, light gold to brown
	01/23/98	0.6/0.8	7.11	18.7	2,640	—	clear
	04/16/98	1.8/0.4	7.00	21.1	2,720	2.5	clear
	07/16/98	1.3/0.8	6.99	21.6	3,090	0.67	clear
	01/26/99	1.2	7.01	19.1	2,740	—	clear
	07/08/99	3.3/1.4	7.12	21.0	3,050	0.76	clear, no odor
	01/27/00	—	7.03	19.1	3,070	—	clear
	07/17/00	2.6/2.6	7.06	20.6	3,100	3.49	clear
	02/17/01	3.5	7.07	20.5	3,130	—	clear
	08/21/01	3.1	6.96	20.3	3,010	—	clear
MW-5	11/12/96	—	7.00	23.1	—	—	strong odor, bailed dry 3.5 gal
	02/06/97	0.6	7.17	15.7	3,600	303/2040	strong odor, silty, foamy
	05/10/96	0.8	7.25	20.7	3,500	295	strong odor, red-yellow color, bailed dry 3.5g
	08/07/97	4.9	7.47	20.7	2,810	173	silty, red
	10/09/97	0.2	7.12	22.9	2,970	—	red silty, strong odor
	01/24/98	0.8	7.14	18.7	2,870	31.1	clear, amber color, strong odor
	04/17/98	0.6	7.16	20.2	2,840	52.0	clear, amber tint, strong odor
	07/17/98	0.7	7.02	22.5	3,140	43.18	foamy, light tint, strong odor
	01/27/99	0.6	7.10	20.5	2,700	—	clear, odor
	07/08/99	0.9/0.4	7.11	21.5	2,780	36.98	clear, light amber tint
	01/27/00	—	7.06	19.9	2,820	—	clear, strong odor
	07/18/00	0.0	7.12	23.5	2,800	25.00	clear, amber tint, odor
	02/18/01	0.9	7.13	19.5	2,760	—	clear, amber tint, odor
	08/21/01	1.0	7.01	23.7	2,410	—	grayblack, strong odor
MW-6	11/12/96	—	—	21.6	—	—	red silty
	02/04/97	2.0	6.56	17.0	3,800	279/600	fine red silt, no odor
	05/10/97	1.8	6.96	21.7	3,800	234	red silty
	08/07/97	1.8	6.89	20.2	3,730	173	red silty
	10/09/97	1.7	6.89	19.3	3,510	—	red silty
	01/23/98	0.6	6.81	19.7	3,460	—	slightly turbid
	04/16/98	0.4	6.87	19.1	3,470	15.36	clear
	07/16/98	2.9/1.6	6.84	22.6	3,810	5.37	clear, took 4 cycles to get final parameters
	01/27/99	1.1	6.79	19.6	3,550	—	clear, odor
	07/08/99	1.8/1.0	6.85	21.2	3,760	4.64	clear, slight odor, took 4 cycles to get final parameters
	01/27/00	—	6.85	19.3	3,800	—	clear, slight odor
	07/18/00	0.5	6.87	21.9	3,790	1.54	clear, slight odor
	02/18/01	1.5	6.88	20.2	3,800	—	clear
	08/21/01	1.5	6.68	22.9	3,560	—	clear with odor

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
MW-7	11/12/97	--	7.16	23.6	--	--	red silty
	02/04/97	2.0	6.89	--	2,900	539/2080	fine red silt, no odor
	05/10/97	2.0	7.17	21.1	2,970	>1000	red silty/sandy
	08/07/97	2.0	7.18	20.2	2,970	18.8	slight red silt
	10/09/97	2.6	7.20	19.6	2,750	--	red silty
	01/23/98	1.1/1.6	7.10	18.7	2,730	--	clear
	04/17/98	2.5/2.6	7.21	18.0	2,720	1.64	clear
	07/16/98	3.5	7.12	21.7	2,970	1.81	clear
	01/27/99	2.6	7.10	19.9	2,740	--	clear
	07/08/99	3.4	7.16	20.7	2,850	1.12	clear
	01/27/00	--	7.13	18.9	2,840	--	clear
	07/18/00	2.3	7.22	21.9	2,780	1.98	clear
	02/18/01	2.8	7.18	19.8	2,790	--	clear
	08/21/01	4.0	7.11	22.5	2,660	--	clear
MW-8	11/12/96	--	6.91	22.1	--	--	very fine red silt,
	02/06/97	2.0	6.95	14.1	3,000	<1000/590	red, silty, no odor
	05/10/97	1.6	7.00	22.0	3,040	193	red silt/sand
	08/07/97	1.1	6.97	20.1	3,040	237	red silt
	10/09/97	2.9	6.95	20.8	2,800	--	red silty
	01/24/98	0/0.2	6.90	19.0	2,810	26.17	Lt. amber color, clear
	04/17/98	0.9	6.97	19.2	2,860	25.46	clear, Lt. amber color
	07/17/98	0.2/0.0	6.85	22.5	3,070	4.10	clear, odor
	01/27/99	0.8/0.0	6.84	19.4	2,830	--	clear, odor
	07/08/99	1.9	6.87	22.1	2,950	2.79	clear
	01/27/00	--	6.87	19.2	2,960	--	clear, odor
	07/18/00	0.8	6.95	22.6	2,910	6.70	clear, odor
	02/18/01	1.2	6.91	20.3	2,910	--	clear
	08/21/01	1.2	6.82	22.3	2,730	--	clear
MW-14	11/12/96	--	7.07	19.9	--	--	mostly clear, slight silt
	02/04/97	3.0	7.06	15.3	3,600	70.1/92	clear initially, red silty, no odor
	05/10/97	2.0	7.04	21.2	3,390	16.2	slight red sand/silt
	08/07/97	1.0	7.09	20.4	3,340	2.8	clear
	10/08/97	1.5	6.74	20.7	3,170	--	clear
	01/23/98	0.7	6.97	17.5	3,150	--	clear
	04/17/98	1.2	7.08	21.1	3,180	0.79	clear
	07/17/98	0.6	6.94	21.8	3,520	2.25	clear
	01/27/99	--	6.92	19.9	3,260	--	clear
	07/08/99	1.3	6.96	20.9	3,460	0.87	clear
	01/27/00	--	6.96	19.5	3,420	--	clear
	07/18/00	0.2/0.6	7.00	20.9	3,330	1.65	clear
	02/18/01	0.9	6.98	20.3	3,350	--	clear
	08/21/01	3.5	7.10	22.3	2,690	--	clear
MW-15	11/12/96	--	7.21	24.6	--	--	clear
	02/04/97	8.0	6.90	18.3	3,200	34.5/133	fine red silt, no odor
	05/10/97	--	7.28	20.0	3,230	63.1	silty red sand
	08/07/97	7.4	7.13	20.5	3,160	159	red silt
	10/08/97	7.4	7.26	21.0	2,900	--	red sand/ fine silt
	01/23/98	5.2	7.24	18.8	2,930	--	turbid
	04/16/98	4.9	7.13	19.4	2,940	5.69	clear
	07/17/98	5.8/5.0	7.04	22.1	3,210	11.05	clear
	01/26/99	4.5	7.08	19.4	2,830	--	clear
	07/08/99	6.1	7.08	20.2	2,840	11.34	clear
	01/27/00	--	7.11	18.9	2,850	--	clear
	07/17/00	5.6	7.07	20.6	2,750	5.62	clear
	02/17/01	5.4	7.13	19.9	2,750	--	clear
	08/21/01	5.6	7.06	20.6	2,600	--	clear

**Table 3. Summary of Field Measured Parameters
TW WT-1 Engine Room Pit Area**

Monitor Well	Date	Dissolved Oxygen (mg/L) Meter/Hach Kit	pH	Temperature °C	Electrical Conductivity (µs/cm)	Turbidity (NTU/FTU) field / lab	Remarks
MW-16	11/12/96	--	6.7	22.7	--	--	mostly clear, slight red silt
	02/04/97	4.0	6.49	17.2	4,900	139/830	fine red silt, no odor
	05/10/97	1.4	6.91	20.1	4,800	203	red sand/silt
	08/06/97	3.3	6.87	21.3	4,540	670	very silty, red
	10/08/97	3.3	6.88	21.3	4,190	--	red silty
	01/23/98	1.9	6.84	18.6	3,940	--	slightly turbid
	04/16/98	1.4/1.0	6.88	20.8	3,990	1.27	clear
	07/16/98	2.2	6.81	21.2	4,380	0.43	clear
	01/26/99	1.3	6.82	19.5	3,980	--	clear
	07/08/99	1.6/1.0	6.84	20.7	4,520	0.80	clear, no odor
	01/27/00	--	6.80	19.3	4,540	--	clear
	07/17/00	0.9	6.83	20.7	4,520	2.12	clear
	02/17/01	2.0	6.85	20.0	4,230	--	clear
	08/21/01	1.1	6.73	20.6	4,030	--	clear
SVE-1A	01/26/00	--	7.07	18.2	2,800	--	turbid, odor
	07/18/00	0.0	7.09	21.3	2,890	--	turbid, odor
	02/18/01	--	--	--	--	--	turbid, odor, insufficient h2o for parameters
	08/21/01	1.3	7.09	21.4	2420.0	--	grayblack, strong odor, bailed dry @ 0.75 gallons

Table 4. Summary of Ground Water Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NNMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
MW-1	11/15/94	12 ^a	100 ^a	10 ^a	110 ^a	na	na	<2.0 ^a	690 ^a	6.7 ^a	2.2 ^a	2.8 ^a	420 ^a	na	16 ^a	<2.0 ^a	28 ^a	<2.0 ^a	<2.0 ^a
	09/14/95	13	90	8	110	2000	400	<10	<5	730	13	9	na	170	1800	19	57	24	<10
	11/12/96	9	66	<5	39	630	100	<10	<5	480	9	<5	na	88	1500	12	<5	20	<10
	02/04/97	13	94	8	80	790	300	<10	<5	480	10	<5	<5	89 ^b	1700	9	<5	29	11
	05/10/97	10	75	6	45	470	<100	<10	<5	470	9	<5	<5	<50	1000	8	9	20	<10
	08/07/97	<50	<50	<50	<50	1100	1100	<50	<50	590	<50	<50	<50	200	1200	<50	<50	<50	<100
	10/09/97	<50	132	<50	97	1660	<1000	<100	<50	597	<50	<50	<50	221 ^b	1650	<50	<50	<50	<100
	01/23/98	11	82	7	85	2300	93	<10	<5	530	<5	<5	<5	230	2000	8	<5	24	<10
	04/17/98	11	84	7	85	2100	52	<10	<5	480	8	<5	<5	360	1600	6	<5	24	<10
	04/17/98	14	93	8	96	2400	100	11	<5	460	11	<5	<5	230	2100	8	<5	30	<10
	Dup (MW-17)	07/17/98	15	93	8	97	<2000	98	<10	<5	820	8	12	<5	330	1800	14	93	21
01/27/99		15	58	9	93	330	120	4	<1	460	8	4	3	310	2100	10	18	26	<2
08/21/01		12.8	62.7	6.5	92.8	198	71.3	3.25	<1	791	6.89	20	4.1	133	1200	28.1	147	18.8	2.65
MW-3	11/16/94	5	<0.5	<0.5	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-4	12/01/94	<0.5	<0.5	<0.5	<0.5	na	na	<0.2	7.6	0.9	<0.2	4.7	<0.2	<2.0	na	0.5	<0.2	<0.2	<0.2
	09/12/95	<1	<5	<5	<5	<100	<100	<10	6	<5	<5	<5	na	<5	<50	<5	<5	<5	<10
	11/12/96	<5	<5	<5	<5	<100	<100	<10	6	<5	<5	<5	na	<5	<50	<5	<5	<5	<10
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<5	100	<5	<5	<5	<10
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10
	08/06/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	5.4	<5	<5	<50	<5	<5	<5	<10
	10/08/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<10
	01/23/98	<5	<5	<5	<5	<100	<20	<10	5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<10
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	07/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10
	01/26/99	<1	<1	<1	<1	<20	<20	<2	4	<1	<1	4	<1	<2	<10	<1	<1	<1	<2
	07/08/99	<1	<1	<1	<1	<20	<20	<2	4	1	<1	4	<1	<2	<10	<1	<1	<1	<2
	01/27/00	<1	<1	<1	<1	<20	<20	<2	4	1	<1	4	<1	<2	<10	<1	<1	<1	<2
	07/17/00	<1	<1	<1	<1	<20	<20	<2	4	1	<1	3	<1	<2	<10	<1	<1	<1	<2
	02/17/01	<1.00	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	2.79	<1.00	<1.00	3.62	<1.00	<5.00	<5.00	<1.00	<1.00	<1.00	<1.00
	08/21/01	<1	<1	<1	<3	<10	<10	<1	2.3	<1	<1	3.6	<1	<5	<5	<1	<1	<1	<1

Table 4. Summary of Ground Water Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)														
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride	
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1	
MW-5	12/01/94	20	19	8.3	26	na	na	8.9	<0.2	18	1.1	<0.2	12	43	na	0.8	<0.2	3.2	<0.2	
	09/12/95	12	24	<5	24	1000	200	100	<5	200	7	<5	na	190	520	<5	<5	67	<10	
	11/12/96	20	44	18	44	<100	<100	31	<5	150	<5	<5	na	5	300	<5	<5	<5	11	
	02/06/97	31	53	12	83	56	<100	56	<5	160	<5	5.6	140	36 ^b	280	<5	<5	120	16	
Dup (BS-99)	05/10/97	24	35	9	38	<100	<100	22	<5	140	<5	<5	120	<50	210	<5	<5	86	<10	
	05/10/97	23	38	9	38	<100	<100	22	<5	130	<5	<5	111	<50	180	<5	<5	82	<10	
	08/07/97	22	9	<5	15	<100	<100	11	<5	47	<5	<5	53	7	50	<5	<5	35	<10	
	10/09/97	19	15	7	24	<100	<100	<10	<5	96	<5	<5	103	10 ^b	89	<5	<5	71	<10	
Dup (MW-17)	10/09/97	18	14	7	25	<100	<100	<10	<5	102	<5	<5	111	10 ^b	98	<5	<5	69	<10	
	01/24/98	23	18	9	33	<100	<20	<10	<5	120	<5	6	140	<5	130	<5	<5	75	<10	
	01/24/98	25	19	9	34	<100	<20	10	<5	130	<5	7	150	<5	120	<5	<5	77	<10	
	04/17/98	16	9	<5	14	<100	<20	<10	<5	83	<5	<5	91	<5	18	<5	<5	67	<10	
Dup (MW-17)	07/17/98	21	10	5	17	<100	<20	16	<5	110	<5	6	100	<5	47	<5	<5	91	<10	
	01/27/99	22	9	7	19	<20	<20	7	<1	84	1	5	85	<2	17	4	3	100	<2	
	01/27/99	22	9	7	19	<20	<20	5	<1	81	1	5	86	<2	19	3	2	96	<2	
	07/09/99	22	11	6	15	<20	<20	5	<1	100	2	4	84	<2	22	3	3	100	<2	
Dup (MW-17)	01/27/00	22	8	7	16	<20	<20	3	<1	68	1	3	60	<2	10	3	3	85	<2	
	01/27/00	22	8	7	15	<20	<20	3	<1	67	1	3	60	<2	10	3	3	84	<2	
	07/18/00	23	8	7	15	<20	<20	4	<1	59	1	3	54	<2	<10	4	3	82	<2	
	02/18/01	19.4	7.63	7.77	16.97	11.7	<10.00	4.95	<1.00	59.8	1.24	3.34	61.9	<5.00	14.6	3.38	3.31	65.6	<1.00	
Dup (MW-19)	02/18/01	19.5	7.73	7.84	17.15	<10.00	<10.00	4.34	<1.00	57.7	1.23	3.06	62.0	<5.00	13.9	2.93	3.11	63.8	<1.00	
	08/21/01	19.8	7.18	6.15	14.35	19	<10	8.62	<1	108	1.5	4.37	106	<5	11.2	1.95	4.49	94.5	1.12	
	MW-6	11/30/94	1.8	<0.5	<0.5	0.5	na	na	0.5	<0.2	13	<0.2	2.9	6.8	<2.0	na	0.4	<0.2	15	<0.2
		09/12/95	2	<5	<5	<5	<100	<100	<10	<5	17	<5	<5	na	<5	<50	<5	<5	21	<10
11/12/96		<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	na	<5	<50	<5	<5	15	<10	
02/04/97		<5	<5	<5	<5	<100	<100	<10	<5	11	<5	<5	6	<50	<50	<5	<5	18	<10	
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	10	<5	<5	<5	<50	<50	<5	<5	14	<10	
	08/07/97	<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	7	<5	<50	<5	<5	16	<10	
	10/09/97	<5	<5	<5	<5	<100	<100	<10	<5	12	<5	<5	7	<5	<50	<5	<5	16	<10	
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	14	<5	<5	7	<5	<10	<5	<5	15	<10	

Table 4. Summary of Ground Water Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	13	<5	<5	8	<5	<10	<5	<5	17	<10
	07/16/98	<5	<5	<5	<5	<100	<20	<10	<5	12	<5	<5	7	<5	<10	<5	<5	14	<10
	01/27/99	1	<1	<1	<1	<20	<20	<2	<1	11	<1	3	8	<2	<10	<1	<1	16	<2
	07/08/99	2	<1	<1	<1	<20	<20	<2	<1	12	<1	2	9	<2	<10	<1	<1	18	<2
	01/27/00	2	<1	<1	<1	<20	<20	<2	<1	14	<1	3	9	<2	<10	<1	<1	19	<2
	07/18/00	2	<1	<1	<1	<20	<20	<2	<1	14	<1	3	10	<2	<10	<1	<1	19	<2
	02/18/01	1.60	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	12.1	<1.00	2.09	9.49	<5.00	<5.00	<1.00	<1.00	16.4	<1.00
	08/21/01	1.5	<1	<1	<3	<10	<10	<1	<1	10	<1	2.02	8.28	<5	<5	<1	<1	15.5	<1
	MW-7	11/22/94	7	<0.5	<0.5	<0.5	na	na	<0.2	<0.2	23	0.3	2.3	7.3	<2.0	na	0.4	1.6	14
09/12/95		6	<5	<5	<5	<100	<100	<10	<5	22	<5	<5	na	<5	<50	<5	<5	13	<10
11/12/96		9	<5	<5	<5	<100	<100	<10	<5	22	24	<5	na	<5	<50	<5	<5	18	<10
02/04/97		8	<5	<5	<5	<100	<100	<10	<5	18	<5	<5	7	<50	<50	<5	<5	15	<10
05/10/97		6	<5	<5	<5	<100	<100	<10	<5	16	<5	<5	<5	<50	<50	<5	<5	13	<10
08/07/97		9	<5	<5	<5	<100	<100	<10	<5	22	<5	<5	8	<5	<50	<5	<5	17	<10
10/09/97		<5	<5	<5	<5	<100	<100	<10	<5	20	<5	<5	6	<5	<50	<5	<5	16	<10
01/23/98		6	<5	<5	<5	<100	<20	<10	<5	21	<5	<5	6	<5	<10	<5	<5	13	<10
04/17/98		6	<5	<5	<5	<100	<20	<10	<5	20	<5	<5	8	<5	<10	<5	<5	14	<10
07/16/98		7	<5	<5	<5	<100	<20	<10	<5	19	<5	<5	7	<5	<10	<5	<5	12	<10
01/27/99		7	<1	<1	<1	<20	<20	<2	1	19	<1	3	10	<2	<10	<1	<1	12	<2
07/08/99		7	<1	<1	<1	<20	<20	<2	1	20	<1	2	10	<2	<10	<1	<1	12	<2
01/27/00		8	<1	<1	<1	<20	<20	<2	1	24	<1	2	13	<2	<10	<1	<1	12	<2
07/18/00		6	<1	<1	<1	<20	<20	<2	1	19	<1	2	11	<2	<10	<1	<1	9	<2
02/18/01		7.90	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	1.36	24.3	<1.00	2.24	16.0	<5.00	<5.00	<1.00	<1.00	12.1	<1.00
08/21/01		4.25	<1	<1	<3	<10	<10	<1	<1	21.6	<1	1.79	15	<5	<5	<1	<1	11.2	<1
MW-8	11/30/94	12	<0.5	<0.5	<0.5	na	na	0.5	<0.2	71	0.9	1.3	18	<2.0	na	<0.2	<0.2	17	0.2
	09/13/95	18	<5	<5	<5	<100	<100	<10	<5	92	<5	<5	na	<5	<50	<5	<5	45	<10
	11/12/96	19	<5	<5	<5	<100	<100	<10	<5	86	<5	6	na	<5	<50	<5	<5	59	<10
	02/06/97	24	<5	<5	<5	<100	<100	<10	<5	80	<5	<5	28	5.2 ^b	<50	<5	<5	52	<10
	05/10/97	19	42	<5	<5	<100	<100	25	<5	74	<5	<5	120	<50	130	<5	<5	44	<10
	08/07/97	21	<5	<5	<5	<100	<100	25	<5	86	<5	7.4	30	<5	<50	<5	<5	49	<10
Dup (MW-17)	08/07/97	21	<5	<5	<5	<100	<100	25	<5	88	<5	7.8	32	<5	<50	<5	<5	51	<10

Table 4. Summary of Ground Water Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
Dup (MW-17)	10/09/97	25	<5	<5	<5	<100	<100	<10	<5	104	<5	<5	34	7 ^b	<50	<5	<5	67	<10
	01/24/98	21	<5	<5	<5	<100	<20	<10	<5	100	<5	<5	33	<5	12	<5	<5	52	<10
	04/17/98	19	<5	<5	<5	<100	<20	<10	<5	89	<5	<5	33	<5	<10	<5	<5	51	<10
	07/17/98	20	<5	<5	<5	<100	<20	<10	<5	91	<5	<5	32	<5	<10	<5	<5	51	<10
Dup (MW-17)	07/17/98	20	<5	<5	<5	<100	<20	<10	<5	88	<5	<5	31	<5	<10	<5	<5	52	<10
	01/27/99	20	<1	<1	<1	<20	<20	<2	<1	94	2	5	37	<2	<10	<1	<1	54	<2
	07/09/99	17	<1	<1	<1	<20	<20	<2	<1	99	2	5	39	<2	<10	<1	<1	59	<2
	07/09/99	16	<1	<1	<1	<20	<20	<2	<1	95	2	5	39	<2	<10	<1	<1	59	<2
Dup (MW-17)	01/27/00	21	<1	<1	<1	<20	<20	<2	<1	110	2	5	43	<2	<10	<1	<1	59	<2
	07/18/00	21	<1	<1	<1	<20	<20	<2	<1	100	2	5	45	<2	<10	<1	<1	59	<2
	07/18/00	20	<1	<1	<1	<20	<20	<2	<1	100	2	5	44	<2	<10	<1	<1	59	<2
	02/18/01	17.8	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	89.2	1.49	4.52	42.0	<5.00	<5.00	<1.00	<1.00	52.8	<1.00
Dup (MW-17)	08/21/01	17.7	<1	<1	<3	<10	<10	<1	<1	97.9	1.59	4.74	42.6	<5	<5	<1	<1	54.1	1.13
	08/21/01	17.8	<1	<1	<3	<10	<10	<1	<1	100	1.42	4.47	45.8	<5	<5	<1	<1	52.9	1.11
MW-14	09/13/95	1	<5	<5	<5	<100	<100	<10	<5	24	<10	<5	na	<5	<50	<5	<5	11	<10
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	25	<10	<5	na	<5	<50	<5	<5	13	<10
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	21	<5	<5	<5	<50	<50	<5	<5	13	<10
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	22	<5	<5	<5	<50	<50	<5	<5	12	<10
	08/07/97	<5	<5	<5	<5	<100	<100	<10	<5	27	<5	<5	<5	<5	<50	<5	<5	14	<10
	10/09/97	<5	<5	<5	<5	<100	<100	<10	<5	27	<5	<5	<5	6 ^b	<50	<5	<5	15	<10
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	31	<5	<5	5	<5	<10	<5	<5	13	<10
	04/17/98	<5	<5	<5	<5	<100	<20	<10	<5	28	<5	<5	<5	<5	<10	<5	<5	14	<10
	07/17/98	<5	<5	<5	<5	<100	<20	<10	<5	26	<5	<5	<5	<5	<10	<5	<5	14	<10
	01/27/99	<1	<1	<1	<1	<20	<20	<2	<1	27	<1	2	5	<2	<10	1	<1	14	<2
	07/09/99	<1	<1	<1	<1	<20	<20	<2	<1	29	<1	2	5	<2	<10	1	<1	16	<2
	01/27/00	<1	<1	<1	<1	<20	<20	<2	<1	29	<1	2	5	<2	<10	1	<1	15	<2
	07/18/00	<1	<1	<1	<1	<20	<20	<2	<1	32	<1	2	6	<2	<10	1	<1	16	<2
	02/18/01	<1.00	<1.00	<1.00	<1.00	<10.00	<10.00	<1.00	<1.00	31.50	<1.00	1.78	5.95	<5.00	<5.00	1.18	<1.00	15.4	<1.00
	08/21/01	<1	<1	<1	<3	<10	<10	<1	<1	33.7	<1	1.61	5.93	<5	<5	<1	<1	15.7	<1

Table 4. Summary of Ground Water Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)														
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride	
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1	
MW-15	09/14/95	<1	<5	<5	<5	<100	<100	<10	<5	<5	<5	5	na	<5	<50	<5	<5	<5	<10	
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	5	na	<5	<50	<5	<5	<5	<10	
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10	
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10	
	08/07/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<10	
	10/08/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	6 ^b	<50	<5	<5	<5	<10	
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	
	04/16/98	<5	13	<5	<5	<100	<20	<10	<5	<5	<5	5	<5	<5	<10	<5	<5	<5	<10	
	07/17/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	
	01/26/99	<1	<1	<1	<1	<20	<20	<2	2	3	<1	5	<1	<2	<10	<1	1	<1	<2	
	07/08/99	<1	<1	<1	<1	<20	<20	<2	2	4	<1	4	<1	<2	<10	<1	2	<1	<2	
	01/27/00	<1	<1	<1	<1	<20	<20	<2	2	4	<1	5	<1	<2	<10	<1	2	<1	<2	
	07/17/00	<1	<1	<1	<1	<20	<20	<2	2	3	<1	4	<1	<2	<10	<1	2	<1	<2	
	02/17/01	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	1.77	3.54	<1.00	3.97	<1.00	<5.00	<5.00	<1.00	1.81	<1.00	<1.00	
	08/21/01	<1	<1	<1	<3	<10	<10	<1	1.39	3.18	<1	3.59	<1	<5	<5	<1	1.72	<1	<1	
MW-16	09/14/95	<1	<5	<5	<5	<100	<100	<10	<5	6	<5	<5	na	<5	<50	6	<5	<5	<10	
	11/12/96	<5	<5	<5	<5	<100	<100	<10	<5	6	<5	<5	na	<5	<50	21	<5	<5	<10	
	02/04/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	17	<5	<5	<10	
	05/10/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	<50	<50	<5	<5	<5	<10	
	08/06/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	6	<50	14	<5	<5	<10	
	10/08/97	<5	<5	<5	<5	<100	<100	<10	<5	<5	<5	<5	<5	7 ^b	<50	15	<5	<5	<10	
	01/23/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	13	<5	<5	<10	
	04/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	
	07/16/98	<5	<5	<5	<5	<100	<20	<10	<5	<5	<5	<5	<5	<5	<10	16	<5	<5	<10	
	01/26/99	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	16	<1	1	<2	
	07/08/99	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	14	<1	<1	<2	
	01/27/00	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	3	<1	<2	<10	14	<1	1	<2	
	07/17/00	<1	<1	<1	<1	<20	<20	<2	<1	3	<1	2	<1	<2	<10	13	<1	1	<2	
	02/17/01	<1.00	<1.00	<1.00	<1.00	<10.00	<1.00	<1.00	<1.00	2.43	<1.00	3.13	<1.00	<5.00	<5.00	10.5	<1.00	<1.00	<1.00	
	08/21/01	<1	<1	<1	<3	<10	<10	<1	<1	2.03	<1	3.15	<1	<5	<5	8.22	<1	<1	<1	

Table 4. Summary of Ground Water Analyses - Organics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	BTEX (ug/L)				Other VOCs (ug/L)													
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Acetone	Methyl ethyl ketone (2-butanone)	Chloroethane	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Dichloromethane (Methylene chloride)	4-methyl-2-pentanone	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl chloride
NMWQCC Standard		10	750	750	620	none	none	none	100.0	25.0	10.0	5	none	none	none	20	60	100	1
	SVE-1A	59	16	14	57	<20	<20	11	<1	240	2	8	54	5	240	8	44	59	<2
		59	16	15	59	<20	<20	9	<1	230	3	8	62	3	480	3	33	57	<2
		45.6	29.6	14.2	101.12	<50.0	<50.0	14.2	<5.00	466	5.45	15.8	101	<25.0	883	13.8	55.1	98.9	<5.00
		51.9	31.4	16.2	92.6	<10	<10	13.3	<1	607	5.08	21.8	116	<5	610	7.65	62.5	133	3.6

NOTES:

- (a) Sample analyzed at 10x dilution
 (b) Constituent also detected in laboratory blank sample
 na - Analysis for this constituent was not run on samples collected during this sample event

**Table 5. Summary of Analytical Results for Additional
Halogenated Organic Compounds Not Listed in Table 3
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
MW-1	10/09/97	1,1,2,2-Tetrachloroethane	107	50
	01/23/98	1,2,4-Trimethylbenzene	36	5
	01/23/98	1,3,5-Trimethylbenzene	13	5
	01/23/98	2-Hexanone	25	10
	04/17/98	Naphthalene	11	5
	04/17/98	1,2,4-Trimethylbenzene	39	5
	04/17/98	1,3,5-Trimethylbenzene	13	5
	04/17/98	2-Hexanone	18	10
	Dup(MW-17)	Naphthalene	24	5
	04/17/98	1,2,4-Trimethylbenzene	40	5
	04/17/98	1,3,5-Trimethylbenzene	14	5
	04/17/98	2-Hexanone	26	10
	07/17/98	Naphthalene	13	5
	07/17/98	1,2,4-Trimethylbenzene	32	5
	07/17/98	1,3,5-Trimethylbenzene	11	5
	07/17/98	2-Hexanone	18	10
	01/27/99	Carbon disulfide	1	1
	01/27/99	Isopropylbenzene	2	1
	01/27/99	n-Propylbenzene	3	1
	01/27/99	1,3,5-Trimethylbenzene	14	1
	01/27/99	1,2,4-Trimethylbenzene	38	1
	01/27/99	4-Isopropyltoluene	2	1
	01/27/99	1,2-Dichlorobenzene	1	1
	01/27/99	Naphthalene	14	1
	08/21/01	1,2,4-Trimethylbenzene	27.8	5
	08/21/01	1,2-Dichlorobenzene	1.02	1
	08/21/01	1,3,5-Trimethylbenzene	15.3	1
	08/21/01	n-Propylbenzene	1.12	1
	08/21/01	Naphthalene	11.2	2
MW-4	12/1/994	Bromodichloromethane	0.2	0.2
MW-5	12/01/94	1,2-Dichlorobenzene	0.5	0.2
	11/12/96	Bromodichloromethane	94	5
	01/24/98	Naphthalene	48	5
	01/24/98	1,2,4-Trimethylbenzene	17	5
	01/24/98	1,3,5-Trimethylbenzene	10	5
Dup(MW-17)	01/24/98	Naphthalene	40	5
	01/24/98	1,2,4-Trimethylbenzene	17	5
	01/24/98	1,3,5-Trimethylbenzene	10	5
	04/17/98	Naphthalene	5	5
	04/17/98	1,2,4-Trimethylbenzene	6	5
	07/17/98	Naphthalene	7	5
	07/17/98	1,2,4-Trimethylbenzene	6	5
	01/27/99	trans-1,2-Dichloroethene	1	1
	01/27/99	1,3,5-Trimethylbenzene	6	1
	01/27/99	1,2,4-Trimethylbenzene	9	1

**Table 5. Summary of Analytical Results for Additional
Halogenated Organic Compounds Not Listed in Table 3
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
	01/27/99	4-Isopropyltoluene	1	1
	01/27/99	1,2-Dichlorobenzene	1	1
	01/27/99	Naphthalene	9	1
Dup(MW-17)	01/27/99	1,3,5-Trimethylbenzene	7	1
Dup(MW-17)	01/27/99	1,2,4-Trimethylbenzene	10	1
Dup(MW-17)	01/27/99	4-Isopropyltoluene	1	1
Dup(MW-17)	01/27/99	1,2-Dichlorobenzene	1	1
Dup(MW-17)	01/27/99	Naphthalene	9	1
	07/09/99	1,3,5-Trimethylbenzene	6	1
	07/09/99	1,2,4-Trimethylbenzene	9	1
	07/09/99	4-Isopropyltoluene	1	1
	07/09/99	Naphthalene	9	1
Dup(MW-17)	01/27/00	1,3,5-Trimethylbenzene	8	1
Dup(MW-17)	01/27/00	1,2,4-Trimethylbenzene	13	1
Dup(MW-17)	01/27/00	4-Isopropyltoluene	2	1
Dup(MW-17)	01/27/00	Naphthalene	12	1
	01/27/00	1,3,5-Trimethylbenzene	8	1
	01/27/00	1,2,4-Trimethylbenzene	13	1
	01/27/00	4-Isopropyltoluene	2	1
	01/27/00	Naphthalene	13	1
	01/27/00	1,3,5-Trimethylbenzene	9	1
	01/27/00	1,2,4-Trimethylbenzene	15	1
	01/27/00	4-Isopropyltoluene	2	1
	01/27/00	Naphthalene	11	1
Dup(MW-19)	02/18/01	1,2-Dichlorobenzene	1.04	1.00
Dup(MW-19)	02/18/01	p-Isopropyltoluene	2.10	2.00
Dup(MW-19)	02/18/01	n-Propylbenzene	1.12	1.00
Dup(MW-19)	02/18/01	1,2,4-Trimethylbenzene	16.6	1.00
Dup(MW-19)	02/18/01	1,3,5-Trimethylbenzene	9.35	1.00
	02/18/01	1,2-Dichlorobenzene	1.04	1.00
	02/18/01	p-Isopropyltoluene	2.18	2.00
	02/18/01	Napthalene	14.4	2.00
	02/18/01	n-Propylbenzene	1.12	1.00
	02/18/01	1,2,4-Trimethylbenzene	16.7	1.00
	02/18/01	1,3,5-Trimethylbenzene	9.23	1.00
	08/21/01	1,2,4-Trimethylbenzene	11.8	1
	08/21/01	1,3,5-Trimethylbenzene	7.71	1
	08/21/01	Napthalene	9.4	1
	08/21/01	trans-1,2-Dichloroethene	1.15	1
MW-6	11/30/94	1,2-Dichlorobenzene	0.3	0.2
MW-8	11/30/94	1,2-Dichlorobenzene	0.4	0.2
	01/24/98	P-Isopropyltoluene	10	5
	01/27/99	Isopropylbenzene	2	1
	01/27/99	4-Isopropyltoluene	2	1
	01/27/99	1,2-Dichlorobenzene	1	1

**Table 5. Summary of Analytical Results for Additional
Halogenated Organic Compounds Not Listed in Table 3
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Compound	Concentration (µg/L)	Reporting Limit (µg/L)
Dup(MW-17)	07/09/99	1,2-Dichlorobenzene	1	1
	07/09/99	1,2-Dichlorobenzene	1	1
	01/27/00	1,2-Dichlorobenzene	1	1
	07/18/00	1,2-Dichlorobenzene	1	1
Dup(MW-17)	07/18/00	1,2-Dichlorobenzene	1	1
	02/18/01	1,2-Dichlorobenzene	1.14	1.00
	08/21/01	1,2-Dichlorobenzene	1.08	1
SVE-1A	01/26/00	Isopropylbenzene	2	1
	01/26/00	n-Propylbenzene	3	1
	01/26/00	1,3,5-Trimethylbenzene	19	1
	01/26/00	1,2,4-Trimethylbenzene	30	1
	01/26/00	4-Isopropyltoluene	2	1
	01/26/00	Naphthalene	14	1
	07/18/00	Isopropylbenzene	2	1
	07/18/00	n-Propylbenzene	3	1
	07/18/00	1,3,5-Trimethylbenzene	21	1
	07/18/00	1,2,4-Trimethylbenzene	33	1
	07/18/00	4-Isopropyltoluene	2	1
	07/18/00	Naphthalene	15	1
	02/18/01	1,2,4-Trimethylbenzene	44.5	5.00
	02/18/01	1,3,5-Trimethylbenzene	25.2	5.00
	08/21/01	1,1,2-Trichloroethane	1.48	1
	08/21/01	1,2,4-Trimethylbenzene	47.2	5
	08/21/01	1,3,5-Trimethylbenzene	23.8	1
	08/21/01	Isopropylbenzene	2.44	2
	08/21/01	n-Propylbenzene	3.12	1
	08/21/01	Naphthalene	16.2	2
	08/21/01	trans-1,2-Dichloroethene	1.06	1

Table 6. Summary of Ground Water Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)							Metals (mg/L)													
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10
MW-1	11/15/94	2900	190	< 5	< 0.06	485	59.1	175	216	1610	0.11	24	< 0.0005	< 0.01	< 0.01	0.325	< 0.002	< 0.0002	0.1	< 0.005	< 0.01	na
	09/14/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2370	165	< 50	na	na	na	na	na	na	0.13	22.9	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.05	< 0.04	< 0.01	na
	02/04/97	2460	172	< 5.0	na	na	na	na	na	na	0.12	20	< 0.01	< 0.01	< 0.01	0.25	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	< 0.03
											0.13	22	< 0.01	< 0.01	< 0.01	10	< 0.03	< 0.0002	0.05	< 0.04	< 0.01	< 0.03
	05/10/97	2840	162	< 5.0	< 0.05	na	na	na	na	na	0.15	22.5	< 0.01	< 0.01	< 0.01	0.21	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	< 0.03
	08/07/97	2910	150	< 5.0	5.4	na	na	na	na	na	0.11	27	< 0.01	< 0.01	< 0.01	0.21	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	0.46
	10/09/97	2690	175	< 5.0	< 0.05	na	na	na	na	na	0.16	26	< 0.01	< 0.01	0.04	0.11	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	0.45
	01/23/98	1890	160	9	0.15	na	na	na	na	na	0.2	27.2	< 0.005	< 0.01	< 0.01	0.54	< 0.05	< 0.0002	0.020	< 0.1	< 0.01	< 0.02
	04/17/98	2100	150	200	0.90	na	na	na	na	na	0.2	26.8	< 0.005	< 0.01	< 0.01	8.42	< 0.05	< 0.0002	0.018	< 0.1	< 0.01	< 0.02
Dup (MW-17)	04/17/98	1800	150	7	1.29	na	na	na	na	na	0.1	24.9	< 0.005	< 0.01	< 0.01	8.92	< 0.05	< 0.0002	0.019	< 0.1	< 0.01	< 0.02
	07/17/98	2200	156	9	< 0.1	na	na	na	na	na	0.15	32.2	< 0.005	< 0.01	< 0.01	15.1	< 0.05	< 0.0002	0.023	< 0.005	< 0.01	< 0.02
	08/21/01	3000	157	< 1	0.103	na	na	na	na	na	0.152	10.9	na	na	na	4.93	na	< 0.0002	0.0201	na	na	na
MW-4	12/01/94	2800	540	1000	20	332	5.9	153	353	273	0.007	0.025	< 0.0005	< 0.01	< 0.01	< 0.05	< 0.002	< 0.0002	0.024	0.02	< 0.01	na
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2500	430	1000	na	na	na	na	na	na	< 0.03	0.03	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	na
	02/04/97	2370	416	416	na	na	na	na	na	na	< 0.03	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0002	< 0.01	< 0.04	< 0.01	< 0.03
											< 0.03	0.03	< 0.01	< 0.01	< 0.01	0.57	< 0.03	< 0.0002	0.03	< 0.04	< 0.01	< 0.03
	05/10/97	2660	410	778	10.7	na	na	na	na	na	< 0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	< 0.03
	08/06/97	2620	435	863	12.8	na	na	na	na	na	< 0.03	0.33	< 0.01	0.02	< 0.01	< 0.01	< 0.03	< 0.0002	< 0.01	0.08	< 0.01	0.25
	10/08/97	2470	380	879	9.6	na	na	na	na	na	< 0.03	0.92	< 0.01	< 0.01	< 0.01	0.14	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	0.4
	01/23/98	1920	300	581	< 0.05	na	na	na	na	na	< 0.1	0.017	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.188	< 0.1	< 0.01	< 0.02
	04/16/98	1600	320	800	11.6	na	na	na	na	na	< 0.1	0.026	< 0.005	< 0.01	< 0.01	0.07	< 0.05	< 0.0002	0.201	< 0.1	< 0.01	0.03
	07/16/98	2300	301	900	14.1	na	na	na	na	na	0.011	0.020	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.154	< 0.1	< 0.01	< 0.02
	07/08/99	2200	320	710	14.0	na	na	na	na	na	0.010	0.0213	< 0.0020	< 0.0050	< 0.0020	< 0.010	< 0.025	< 0.00020	0.0381	0.020	< 0.0030	< 0.010
	07/17/00	2240	370	820	15.0	na	na	na	na	na	0.010	0.0206	na	na	na	0.030	na	< 0.00020	0.0011	na	na	na
	08/21/01	2400	411	782	5.11	na	na	na	na	na	< 0.05	0.0196	na	na	na	< 0.05	na	< 0.0002	< 0.01	na	na	na

Table 6. Summary of Ground Water Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)										
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
NIMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10
MW-5	12/01/94	2000	360	< 5	< 0.06	185	6.1	200	326	1080	0.036	17.3	< 0.0005	< 0.01	< 0.01	0.097	< 0.002	< 0.0002	0.112	< 0.005	< 0.01	na
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2610	495	< 25	na	na	na	na	na	na	0.06	25.9	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.43	< 0.04	< 0.01	na
	02/06/97	2300	4400	< 5.0	na	na	na	na	na	na	0.04	21	< 0.01	< 0.01	< 0.01	0.21	< 0.03	< 0.0002	0.02	< 0.04	< 0.01	0.04
Dup (MW-17)										(Unfiltered metals analysis)	0.12	22	< 0.01	0.02	0.02	27	0.04	< 0.0002	0.56	< 0.04	< 0.01	0.09
	05/10/97	2340	380	< 5.0	< 0.05	na	na	na	na	na	0.05	22.2	< 0.01	< 0.01	< 0.01	0.12	< 0.03	< 0.0002	0.01	< 0.04	< 0.01	< 0.03
	08/07/97	1870	300	< 5.0	0.09	na	na	na	na	na	< 0.03	16	< 0.01	< 0.01	< 0.01	0.08	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	0.24
	10/09/97	2090	320	< 5.0	< 0.05	na	na	na	na	na	< 0.03	23	< 0.01	< 0.01	< 0.01	0.02	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	0.23
Dup (MW-17)											< 0.03	16	< 0.01	< 0.01	< 0.01	0.01	< 0.03	< 0.0002	< 0.01	< 0.04	< 0.01	0.23
	10/09/97	2100	340	< 5.0	< 0.05	na	na	na	na	na	< 0.05	15.5	< 0.005	< 0.01	< 0.01	0.19	< 0.05	< 0.0002	0.017	< 0.1	< 0.01	< 0.02
	01/24/98	1640	300	4	< 0.05	na	na	na	na	na	0.1	16.4	< 0.005	< 0.01	< 0.01	0.19	< 0.05	< 0.0002	0.015	< 0.1	< 0.01	< 0.02
	01/24/98	1680	300	4	< 0.05	na	na	na	na	na	< 0.1	14.4	< 0.005	< 0.01	< 0.01	1.29	< 0.05	< 0.0002	0.022	< 0.1	< 0.01	0.03
											0.020	13.7	< 0.005	< 0.01	< 0.01	4.61	< 0.05	< 0.0002	0.018	< 0.005	< 0.01	< 0.02
	07/17/98	1600	281	3	< 0.1	na	na	na	na	na	0.019	13.3	< 0.0020	< 0.0050	< 0.0020	2.50	< 0.025	< 0.00020	0.0224	< 0.010	< 0.0030	< 0.010
	07/09/99	1800	260	< 25	< 0.01	na	na	na	na	na	0.022	13.2	na	na	na	2.80	na	< 0.00020	0.0233	na	na	na
	07/18/00	1740	270	< 3.0	< 0.01	na	na	na	na	na	< 0.05	4.09	na	na	na	1.34	na	< 0.0002	0.025	na	na	na
MW-6		1860	253	< 1	0.0842	na	na	na	na	na	< 0.05	4.09	na	na	na	1.34	na	< 0.0002	0.025	na	na	na
	11/30/94	2400	700	410	< 0.06	293	7.1	197	267	624	< 0.005	0.109	< 0.0005	< 0.01	0.014	< 0.05	< 0.002	< 0.0002	0.562	< 0.005	< 0.01	na
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2460	715	527	na	na	na	na	na	na	< 0.03	0.37	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.95	< 0.04	< 0.01	na
											< 0.03	0.12	< 0.01	< 0.01	< 0.01	0.01	< 0.03	< 0.0002	0.79	< 0.04	< 0.01	< 0.03
	02/04/97	2390	700	467	na	na	na	na	na	na	< 0.03	0.55	< 0.01	0.02	0.03	14	< 0.03	< 0.0002	1.1	< 0.04	< 0.01	0.05
	05/10/97	2550	700	463	< 0.05	na	na	na	na	na	< 0.03	0.1	< 0.01	< 0.01	< 0.01	0.01	< 0.03	< 0.0002	0.69	< 0.04	< 0.01	< 0.03
	08/07/97	2660	720	427	0.4	na	na	na	na	na	< 0.03	0.8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.93	< 0.04	< 0.01	0.29
											< 0.03	0.95	< 0.01	< 0.01	< 0.01	0.18	< 0.03	< 0.0002	0.91	< 0.04	< 0.01	0.4
	10/09/97	2710	710	468	< 0.05	na	na	na	na	na	< 0.03	0.121	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.933	< 0.1	< 0.01	< 0.02
	01/23/98	2190	700	378	< 0.05	na	na	na	na	na	< 0.1	0.121	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.933	< 0.1	< 0.01	< 0.02
	04/16/98	1700	720	500	0.89	na	na	na	na	na	< 0.1	0.112	< 0.005	< 0.01	< 0.01	0.7	< 0.05	< 0.0002	0.844	< 0.1	< 0.01	< 0.02

Table 6. Summary of Ground Water Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)							Metals (mg/L)													
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10
MW-7	07/16/98	2100	620	550	< 0.1	na	na	na	na	na	0.008	0.110	< 0.005	< 0.01	< 0.01	0.70	< 0.05	< 0.0002	0.832	< 0.005	< 0.01	< 0.02
	07/08/99	2400	720	390	< 0.01	na	na	na	na	na	< 0.010	0.114	< 0.0020	< 0.0050	< 0.0020	0.638	< 0.025	< 0.00020	0.888	< 0.010	< 0.0030	< 0.010
	07/18/00	2390	780	450	< 0.01	na	na	na	na	na	< 0.010	0.1140	na	na	na	0.707	na	< 0.00020	0.804	na	na	na
	08/21/01	3380	802	411	< 0.064	na	na	na	na	na	< 0.05	< 0.01	na	na	na	0.103	na	< 0.0002	< 0.01	na	na	na
	11/30/94	2400	400	920	6.8	323	7.9	148	244	327	0.006	0.032	< 0.0005	< 0.01	0.014	< 0.05	< 0.002	< 0.0002	0.069	0.008	< 0.01	na
	09/12/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2240	400	823	na	na	na	na	na	na	< 0.03	1.27	< 0.01	0.01	na	na	< 0.03	< 0.0002	0.6	< 0.04	< 0.01	na
	02/04/97	2100	380	779	na	na	na	na	na	na	< 0.03	0.04	< 0.01	< 0.01	< 0.01	0.01	< 0.03	< 0.0002	0.04	< 0.04	< 0.01	< 0.03
	05/10/97	2250	390	757	7.3	na	na	na	na	na	0.12	3.2	< 0.01	0.04	0.06	41	0.04	< 0.0002	1.2	< 0.04	< 0.01	0.14
	08/07/97	2310	370	716	4.1	na	na	na	na	na	< 0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.04	< 0.04	< 0.01	< 0.03
	10/09/97	2190	410	784	7	na	na	na	na	na	< 0.03	0.61	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.09	< 0.04	< 0.01	0.22
	01/23/98	1700	400	646	8.4	na	na	na	na	na	< 0.03	0.81	< 0.01	< 0.01	< 0.01	0.19	< 0.03	< 0.0002	0.07	< 0.04	< 0.01	0.35
	04/17/98	1800	410	900	8.38	na	na	na	na	na	< 0.1	0.018	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.042	< 0.1	< 0.01	< 0.02
	07/16/98	1900	301	800	8.2	na	na	na	na	na	< 0.1	0.021	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.051	< 0.1	< 0.01	0.02
	07/08/99	2100	360	670	8.0	na	na	na	na	na	0.007	0.019	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.061	0.012	< 0.01	< 0.02
	07/18/00	2040	390	730	8.0	na	na	na	na	na	< 0.010	0.0191	< 0.0020	< 0.0050	< 0.0020	< 0.010	< 0.025	< 0.00020	0.0517	0.012	< 0.0030	< 0.010
	08/21/01	2290	394	632	3.46	na	na	na	na	na	< 0.010	0.0184	na	na	na	< 0.010	na	< 0.00020	0.0384	na	na	na
MW-8	11/30/94	1900	590	330	0.44	247	6	137	221	441	0.006	0.052	< 0.0005	< 0.01	0.014	< 0.05	< 0.002	< 0.0002	0.136	< 0.005	< 0.01	na
	09/13/95	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/96	2010	555	395	na	na	na	na	na	na	< 0.03	0.13	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.41	< 0.04	< 0.01	na
	02/06/97	2000	575	222	na	na	na	na	na	na	< 0.03	0.08	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.44	< 0.04	< 0.01	< 0.03
	05/10/97	1990	550	263	< 0.05	na	na	na	na	na	< 0.03	0.27	< 0.01	0.02	0.02	8.9	< 0.03	< 0.0002	0.72	< 0.04	< 0.01	0.05
	08/07/97	2020	540	251	0.07	na	na	na	na	na	< 0.03	0.06	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.52	< 0.04	< 0.01	< 0.03
	10/09/97	2100	570	242	< 0.05	na	na	na	na	na	< 0.03	0.8	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.67	< 0.04	< 0.01	0.24
											< 0.03	0.7	< 0.01	< 0.01	< 0.01	0.18	< 0.03	< 0.0002	0.86	< 0.04	< 0.01	0.25

Table 6. Summary of Ground Water Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)											
		TDS	Chloride	Sulfate	NO ₃ /NO ₃ -N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc	
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10	
	01/24/98	1740	500	248	< 0.05	na	na	na	na	na	< 0.1	0.071	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.543	< 0.1	< 0.01	< 0.02	
	04/17/98	1300	550	400	0.88	na	na	na	na	na	< 0.1	0.071	< 0.005	< 0.01	< 0.01	0.65	< 0.05	< 0.0002	0.751	< 0.1	< 0.01	< 0.02	
	07/17/98	1500	557	400	< 0.1	na	na	na	na	na	0.008	0.063	< 0.005	< 0.01	< 0.01	0.03	< 0.05	< 0.0002	0.506	< 0.005	< 0.01	< 0.02	
	07/17/98	1500	578	30	< 0.1	na	na	na	na	na	0.008	0.070	< 0.005	< 0.01	< 0.01	0.09	< 0.05	< 0.0002	0.654	< 0.005	< 0.01	< 0.02	
	07/09/99	1900	550	250	0.09	na	na	na	na	na	< 0.010	0.0731	< 0.0020	< 0.0050	< 0.0020	0.141	< 0.025	< 0.00020	0.781	< 0.010	< 0.0030	< 0.010	
	07/09/99	1900	540	250	0.11	na	na	na	na	na	< 0.010	0.0728	< 0.0020	< 0.0050	0.0029	0.242	< 0.025	< 0.00020	0.731	< 0.010	< 0.0030	< 0.010	
	07/18/00	1790	580	240	0.02	na	na	na	na	na	< 0.010	0.0703	na	na	na	0.082	na	< 0.00020	0.734	na	na	na	
	07/18/00	1830	580	240	0.02	na	na	na	na	na	< 0.010	0.0712	na	na	na	0.107	na	< 0.00020	0.734	na	na	na	
	08/21/01	2430	576	195	< 0.01	na	na	na	na	na	< 0.05	0.0717	na	na	na	0.0909	na	< 0.0002	0.903	na	na	na	
Dup (MW-17)	08/21/01	2460	647	172	0.0813	na	na	na	na	na	< 0.05	0.078	na	na	na	0.097	na	< 0.0002	0.948	na	na	na	
MW-14	09/13/95	2360	515	700	1.91	276	7	147	170	444	< 0.05	0.14	< 0.005	< 0.01	na	na	< 0.05	< 0.0002	na	< 0.1	< 0.01	na	
	11/12/96	2510	550	837	na	na	na	na	na	na	< 0.03	0.05	< 0.01	< 0.01	na	na	< 0.03	< 0.0002	0.07	< 0.04	< 0.01	na	
	02/04/97	2510	575	757	na	na	na	na	na	na	< 0.03	0.07	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.06	< 0.04	< 0.01	< 0.03	
											< 0.03	0.13	< 0.01	< 0.01	< 0.01	1.9	< 0.03	< 0.0002	0.1	< 0.04	< 0.01	< 0.03	
	05/10/97	2530	520	715	2.2	na	na	na	na	na	< 0.03	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.07	< 0.04	< 0.01	< 0.03	
	08/07/97	2420	520	662	1.9	na	na	na	na	na	< 0.03	0.73	< 0.01	< 0.01	< 0.01	< 0.01	< 0.03	< 0.0002	0.11	< 0.04	< 0.01	0.22	
	10/08/97	2490	550	769	2.3	na	na	na	na	na	< 0.03	0.54	< 0.01	< 0.01	< 0.01	0.18	< 0.03	< 0.0002	0.11	< 0.04	< 0.01	0.22	
	01/23/98	2200	500	663	2.9	na	na	na	na	na	< 0.1	0.018	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.080	< 0.1	< 0.01	< 0.02	
	04/17/98	2000	540	800	3.72	na	na	na	na	na	< 0.1	0.028	< 0.005	< 0.01	< 0.01	0.03	0.05	< 0.0002	0.119	< 0.1	< 0.01	0.02	
	07/17/98	1800	557	700	2.8	na	na	na	na	na	0.011	0.021	< 0.005	< 0.01	< 0.01	< 0.02	< 0.05	< 0.0002	0.136	0.010	< 0.01	0.02	
07/09/99	2400	530	640	2.7	na	na	na	na	na	< 0.010	0.0216	< 0.0020	< 0.0050	0.0025	< 0.010	< 0.025	< 0.00020	0.111	< 0.010	< 0.0030	< 0.010		
07/18/00	2310	570	690	2.1	na	na	na	na	na	< 0.010	0.0182	na	na	na	< 0.010	na	na	< 0.00020	0.105	na	na	na	
08/21/01	2900	593	597	0.817	na	na	na	na	na	< 0.05	0.0228	na	na	na	na	< 0.05	na	< 0.0002	0.173	na	na	na	

Table 6. Summary of Ground Water Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area

Well	Sampling Date	Major Ions (mg/L)										Metals (mg/L)										
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10
	MW15	2500	442	900	13.2	291	6.5	137	206	286	<0.05	0.02	<0.005	<0.01	na	na	<0.05	<0.0002	na	<0.1	0.01	na
		2420	435	892	na	na	na	na	na	na	<0.03	0.06	<0.01	<0.01	na	na	<0.03	<0.0002	0.02	<0.04	<0.01	na
		2360	420	924	na	na	na	na	na	na	<0.03	0.03	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	<0.03
											<0.03	0.17	<0.01	<0.01	<0.01	2.3	<0.03	<0.0002	0.06	<0.04	<0.01	<0.03
		2530	860	1020	10.2	na	na	na	na	na	<0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	<0.03
		2510	410	825	10.2	na	na	na	na	na	<0.03	0.63	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	<0.01	<0.04	<0.01	0.26
		2400	420	941	5.8	na	na	na	na	na	<0.03	0.53	<0.01	<0.01	<0.01	0.19	<0.03	<0.0002	<0.01	<0.04	<0.01	0.23
		2150	400	766	12.54	na	na	na	na	na	<0.1	0.014	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	<0.005	<0.1	<0.01	<0.02
		1700	420	1000	19.6	na	na	na	na	na	<0.1	0.020	<0.005	<0.01	<0.01	0.06	<0.05	<0.0002	<0.005	<0.1	<0.01	0.03
		1800	386	1000	11.9	na	na	na	na	na	0.012	0.018	<0.005	<0.01	<0.01	0.24	<0.05	<0.0002	<0.005	<0.020	<0.01	<0.02
		2100	340	710	13.0	na	na	na	na	na	<0.010	0.0231	<0.0020	<0.0050	<0.0020	0.144	<0.025	<0.00020	0.0014	0.016	<0.0030	<0.010
		1970	350	730	13.0	na	na	na	na	na	<0.010	0.0226	na	na	na	0.042	na	<0.00020	0.002	na	na	na
		2290	368	736	4.96	na	na	na	na	na	<0.05	0.0283	na	na	na	<0.05	na	<0.0002	<0.01	na	na	na
	MW16	2570	624	850	2.62	320	9.7	188	211	410	<0.05	0.22	<0.005	0.02	na	na	<0.05	0.0003	na	<0.1	<0.01	na
		3550	995	1020	na	na	na	na	na	na	<0.03	0.06	<0.01	<0.01	na	na	<0.03	<0.0002	1.21	<0.04	<0.01	na
		3470	950	830	na	na	na	na	na	na	<0.03	0.05	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	1.1	<0.04	<0.01	<0.03
MW16											0.07	0.37	<0.01	0.02	0.04	27	0.04	<0.0002	1.8	<0.04	<0.01	0.1
		3520	420	1110	1.6	na	na	na	na	na	<0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	1.07	<0.04	0.02	0.02
		3480	860	1010	1.7	na	na	na	na	na	<0.03	0.67	<0.01	<0.01	<0.01	<0.01	<0.03	<0.0002	1.1	<0.04	0.02	0.29
		3370	860	904	0.95	na	na	na	na	na	<0.03	0.52	<0.01	<0.01	<0.01	0.26	<0.03	<0.0002	1.14	<0.04	<0.01	0.25
		2730	800	824	0.91	na	na	na	na	na	<0.1	0.019	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	0.971	<0.1	<0.01	<0.02
		2400	710	1100	1.78	na	na	na	na	na	<0.1	0.026	<0.005	<0.01	<0.01	0.04	<0.05	<0.0002	0.941	<0.1	<0.01	<0.02
		2500	620	1100	1.2	na	na	na	na	na	<0.005	0.023	<0.005	<0.01	<0.01	<0.02	<0.05	<0.0002	0.913	<0.005	<0.01	0.03
		3200	830	920	1.8	na	na	na	na	na	<0.010	0.0240	<0.0020	<0.0050	0.0020	<0.010	<0.025	<0.00020	0.781	<0.010	<0.0030	<0.010
		3080	890	1000	2.1	na	na	na	na	na	<0.010	0.0204	na	na	na	0.0140	na	<0.00020	0.957	na	na	na
		3530	809	937	0.295	na	na	na	na	na	<0.05	0.019	na	na	na	<0.05	na	<0.0002	1.52	na	na	na

**Table 6. Summary of Ground Water Analyses - Inorganics
TW WT-1 Station Engine Room Pit Area**

Well	Sampling Date	Major Ions (mg/L)							Metals (mg/L)													
		TDS	Chloride	Sulfate	NO ₂ /NO ₃ - N, total	Calcium	Potassium	Magnesium	Sodium	Total alkalinity (as CaCO ₃)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Selenium	Silver	Zinc
NMWQCC Standard		1000	250	600	10	none	none	none	none	none	0.1	1.0	0.01	0.05	1.0	1.0	0.05	0.002	0.2	0.05	0.05	10
SVE-1A	07/18/01	1870	300	< 3.0	0.03	na	na	na	na	na	0.067	30.7	na	na	na	6.79	na	0.00020	0.0257	na	na	na
	08/21/01	2030	193	6.69	< 0.01	na	na	na	na	na	0.109	8.71	na	na	na	0.531	na	< 0.00002	0.0112	na	na	na

NOTES:

na - Analysis for this constituent was not run on samples collected during this sample event

**Table 7. Summary of Completion Details for Soil Borings Completed as Wells
TW WT-1 Station Engine Room Pit Area**

Well	Source ^a	Date of Completion	Measuring Point Elevation ^b (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-1	SH&B/B&R	08/12/92	3,547.65	-36.2	-661.8	53.5	55.04	Stickup	2	43.5-53.5	41.0
MW-2	SH&B/B&R	09/01/92	3,546.28	-2.8	-552.0	50.0	52.24	Stickup	2	40-50	38.0
MW-3	SH&B/B&R	08/28/92	3,548.99	-174.5	-619.3	48.5	50.00	Flush Mount	2	38.5-48.5	35.5
MW-4	Eades/DBS&A	11/29/94	3,548.29	-322.5	-664.2	80.0	58.25	Flush Mount	2	43.5-58.5	41.0
MW-5	Eades/DBS&A	11/29/94	3,543.60	52.4	-642.0	59.6	59.75	Flush Mount	2	44.6-59.6	41.0
MW-6	Eades/DBS&A	11/28/94	3,543.33	132.1	-834.3	61.0	61.20	Flush Mount	2	46-61	42.5
MW-7	Eades/DBS&A	11/21/94	3,542.00	129.5	-470.6	56.0	54.88	Flush Mount	2	40-55	37.0
MW-8	Eades/DBS&A	11/20/94	3,541.49	195.3	-639.1	59.0	59.20	Flush Mount	2	44-59	42.0
MW-14	Eades/DBS&A	09/11/95	3,539.73	353.3	-671.4	61.0	60.25	Flush Mount	2	45.5-60.5	43.0
MW-15	Eades/DBS&A	09/12/95	3,542.82	-84.1	-345.5	60.5	57.85	Flush Mount	2	43-58	40.5
MW-16	Eades/DBS&A	09/12/95	3,545.68	-76.1	-930.0	61.0	60.02	Flush Mount	2	45-60	42.0
SVE-1A	Eades/DBS&A	11/18/94	3,545.59	-73.0	-616.0	53.0	52.63	Flush Mount	2	42.5-52.5	41.2
SVE-1B	Eades/DBS&A	11/18/94	3,545.61	-73.0	-616.0	37.5	NA	Flush Mount	2	21-36	18.3
RW-1	GPI/CES	09/07/00	3,545.97	-4.6	-507.7	60.2	62.36	Stickup	4.5	Open hole 43-60.2	None
RW-2	GPI/CES	09/08/00	3,546.26	-3.1	-536.5	60.4	62.45	Stickup	4.5	Open hole 43-60.4	None
RW-3	GPI/CES	09/09/00	3,546.41	-3.1	-566.3	60.0	61.65	Stickup	4.5	Open hole 43-60	None
RW-4	GPI/CES	09/10/00	3,546.96	-2.9	-597.4	60.0	62.10	Stickup	4.5	Open hole 43-60	None
RW-5	GPI/CES	09/11/00	3,546.75	-3.9	-627.0	60.0	62.35	Stickup	4.5	Open hole 43-60	None
RW-6	GPI/CES	09/12/00	3,546.69	-4.0	-656.5	60.0	62.12	Stickup	4.5	Open hole 43-60	None
RW-7	GPI/CES	09/13/00	3,547.50	-3.7	-687.2	60.2	62.52	Stickup	4.5	Open hole 43-60.2	None
RW-8	GPI/CES	09/14/00	3,547.04	-4.2	-716.3	60.1	62.17	Stickup	4.5	Open hole 43-60.1	None
RW-9	GPI/CES	09/20/00	3,545.84	-54.9	-690.0	60.2	59.98	Stickup	4.5	Open hole 43-60.2	None

**Table 7. Summary of Completion Details for Soil Borings Completed as Wells
TW WT-1 Station Engine Room Pit Area**

Well	Source ^a	Date of Completion	Measuring Point Elevation ^b (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)
RW-10	GPI/CES	09/21/00	3,546.32	-107.0	-661.4	60.1	59.90	Stickup	4.5	Open hole 43-60.1	None
RW-11	GPI/CES	09/22/00	3,545.74	-107.8	-568.2	60.2	59.97	Stickup	4.5	Open hole 43-60.2	None
RW-12	GPI/CES	09/23/00	3,544.43	-55.4	-541.4	60.2	60.09	Stickup	4.5	Open hole 43-60.2	None

NOTES:

(a) Driller/Consultant

(b) Survey by John W. West Engineering

**Table 8. Monitor Well Sampling Locations, Frequency, and Sample Analysis Plan
TW WT-1 Station Engine Room Pit Area**

Well ID	Analytical Requirements		1,1-DCA (ppb) Latest Result	Comments
	1st Semiannual Event	2nd Semiannual Event		
MW-1	VOC's	VOC's & Inorganics	791	
MW-2	na	na	na	Well contains PSH
MW-3	na	na	na	Well abandoned
MW-4	VOC's	VOC's & Inorganics	<1	
MW-5	VOC's	VOC's & Inorganics	108	
MW-6	VOC's	VOC's & Inorganics	10	
MW-7	VOC's	VOC's & Inorganics	22	
MW-8	VOC's	VOC's & Inorganics	100	
MW-14	VOC's	VOC's & Inorganics	34	
MW-15	VOC's	VOC's & Inorganics	3	
MW-16	VOC's	VOC's & Inorganics	2	
SVE-1A	VOC's	VOC's & Inorganics	607	

Notes:

- 1) Voc's by 8260
- 2) Inorganics include TDS, Cl, NO2/NO3 as N, As, Ba, Fe & Mn
- 3) "Comments" are provided for wells that will not be sampled during one or more events

Cypress Engineering Services

Boring ID: RW-1

Project:

Engine Room Pit Area
WT-1 STATION Recovery Well/s

Sheet:

1 of 1

Location:

WT-1 STATION

Client:

CES

Job number:

Driller:

AMADOR HINOJOSA, G.P.I.

Total depth:

60' (60.2 9/9/00)

Drilling method:

CONTINUOUS CORE

Boring diameter:

4 1/4" TO 4 5/8", 8" TO 4 3/4"

Boring date:

9/7/00

Logged by:

CMB

Water level:

46.6' 9/14/00 51.6' (TOL)

Date measured:

9/7/00 MORTLE DR

No psh. (48.75 / 9/11/00 BGS -)

Drilled with Sauer-Danuser B-6

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
5'-7'	5'-5 1/2'	-	12" SPT.	55 Blows.	Tan brown Sand - fine gr. Well sorted w/ calciche Hard Calciche & split Spoon	SM	split Spoon 5'-7'
10	10'-12'		12" SPT.	45 Blows	10' Sand Red., fine - med. gr. mixed with calciche	SM	split Spoon 10'-12'
15	15'-17'		12" SPT.	200 Blows	Very dense; Red tan fine gr. Well sorted Sand/silt. minor calciche	SM	split Spoon 15'-17'
20					Started Coring @ 20'		
20'-25'					Rec. 3.5'	SW	NO odor or Hydrocarbon staining
25'-30'					Sandstone medium to coarse grained - well sorted. Red. color. Vugs @ 23'-23.5'	SW	
30					25'-30': Rec. 1.0'		
30'-35'					Sandstone: Red, med. gr. well sorted.	SW	
35					30'-35' Rec. 4.5' sorted.		
35'-40'					35'-40': Rec. 4.0' Damp	SW	Damp. Capillary Fringe?
40					40'-45': Rec. 4.0' Damp	SW	Damp.
40'-45'					Water @ 46.6'		
45					45'-50' Rec. 4.0'		
45'-50'					50'-55': Rec. 3.0'		
50					55'-60' Rec. 4.0'		
50'-55'					T.D. 60'		
55							
55'-60'							
60							

Surface casing 4 1/2" sub 40 ft
Surface casing to 43'
Open hole -
After development and drilling out to 60 ft string
0.1' cast
0.1' / 1/4"

60.2'
9/8/00

Cypress Engineering Services

Boring ID: RW-2

Project:

RECOVERY WELLS
WT-1 ENGINE ROOM PIT AREA

Sheet:

1 OF 1

Location:

ENRON/TWP / WT-1 STATION

Client:

CES

mobile Dr.

Job number:

Driller:

GPI, Amador Hinojosa, GDB-6

Total depth:

60.4' 9/9/00

Drilling method:

CONTINUOUS CORE

Boring diameter:

8" to 43", 4 1/4" 45" - 1."

Boring date:

9/8/00

Logged by:

CMB

Water level:

49.05' BGS (49.05')

Date measured:

9/11/00

No psit. 49.05' BGS (49.05')
9/14/00 52.0 TOL

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
5'-7'			12" 39 3PT Blows		Tan Brown Sand/Silt fine grained w/ caliche Hard Caliche		SM Split Spoon 5'-7'
10'-12'			12" 103 3PT Blows		SM: Tan brown to white, Sand/Silt		SM Split Spoon 10'-12'
15'-17'			6" 200 3PT Blows		Hard drilling @ 15' Hard Caliche		Split Spoon 15'-17' SM
20'-25'					Started Coring @ 20' 20'-25': Rec. 2.3' Sandstone: med. to coarse grained - well sorted little or no fines		SW SW
25'-30'					25'-30': Rec. 6" - Core fell out of barrel		down hole
30'-35'					30'-35': Rec. 4.5' Red. Sandstone med. to fine gr. well sorted.		SW
35'-40'					Slightly DAMP. 35'-40' Rec.		
40'-45'					Powder/pulverized Red. SS. Length. Unknown		
40'-45'					40'-45': Rec. 1.5' DAMP Slight hydrocarbon odor. Slight Black staining 5%.		SW Capillary Fringe
45'-50'					45'-50': Rec. 4.5'		SC? SC
46'-48'					46'-48' - Saturated with hydrocarbon - brown green/black oil. Wet.		SW/slight clay c 50' < 1"
50'-55'					50'-55' - Rec. 4.0'		slightly clayey
55'-60'					55'-60' - Rec. 1.5'		Sandstone

4 1/2" Surface Coring

Drilled out w/ 4 1/4" open hole.

T.O.
60.4'
9/9/00

Cypress Engineering Services

Boring ID: RW-3

Project:

RECOVERY WELL/ WT-1 Engine Room

Sheet:

1 of 1

Location:

Enron/Twp/WT-1 Station

Client:

CES

Job number:

Driller:

GPI, Amador Hinojosa, Mobil Dri/ B-6/

Total depth:

61.65' 9/24/00

Drilling method:

CONTINUOUS CORE

Boring diameter:

8" to 43", 4 1/4" 43"-T.D.

Boring date:

9/9/00

Logged by:

CMB

Water level:

NOP# 52.55 BGS

Date measured:

9/14/00

(Top) 51.90 9/14/00

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
5'-7'			12" 87 SPT Blows		Tan/white fine gr. well sorted sand/silt/Coliche: 5M		5M. Split Spoon. 5'-7'
10'-12'			12" 103 SPT Blows		Hard drilling @ 17'		Split Spoon 10'-12'
15'-17'			12" 103 SPT Blows				Split Spoon 15'-17'
20'-25'					Started Coring @ 20' 20'-25': Rec. 1.5': Sandstone, med. to coarse grain. well sorted. - little or no trace Tan/red to green.		SW No staining or odor
25'-30'					25'-30': Rec. 4.5': Red/clayey Sandstone. Med - fine gr. well sorted. clay 10% -		SW/SC?
30'-35'					30'-35': Rec. 5.0'		Slightly Damp @ 35' Slight clay.
35'-40'					35'-40': Rec. 3.5' Increase clay to 20% Damp.		SC/SW slight odor + hydrocarbon.
40'-45'					40'-45': Rec. 4.0' Damp		Slight odor SC/SW
45'-50'					Highly Contaminated 46'-51'		clay @ 49-50' (ck)
45'-50'					45'-50': Rec. 5.0' c 47 strong oil. - wet.		SC/SW 49-50 - strong clay zone.
50'-55'					50'-55': Contaminated c 51. Rec. 5.0'		Red clayey Sand.
55'-60'					55'-60': Rec. 5.0'		SC/SW

4 1/2" Surface Casings

43'

4 1/2" Surface Casings 19.0'

Cypress Engineering Services

Boring ID: RW-4

Project: RECOVERY WELLS WT-1 ENGINE ROOM PIT AREA

Sheet: 1 OF 1

Location: ENRON/TWP/WT-1 STATION

Client: CES

Job number:

Driller: GPI, AMADOR HINOJOSA, MOBIL DEI/B-6

Total depth: 60' 9/11/00

Drilling method: CONTINUOUS CORE

Boring diameter: 8" to 4 1/4" 43' - T.D.

Boring date: 9/10/00

Logged by: CMB

Water level: NO PWT 57.50, BGS

Date measured: 9/11/00

9/14/00 TOC - 52.4%

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
5'-7'		12"	80 5ft blues		Tan/white Sand/silt Caliche, med to fine grained Sands/ Silt / NO staining or odor		Sm
10'-12'		12"	100 5ft blues				Split Spun 10'-12'
15'-17'		12"	200 5ft blues		Harder c 17'-18' Started Coring c 20'		Split Spun 15'-17'
20'-25'					Rec. 2.0' Red/white. med. to coarse gr. Sandstone. Little or no fines		SW
25'-30'					Rec. 4.0' minor clay		SW/SC minor clay streaks
30'-35'					Rec. 3.5' Red: Sandstone med to fine gr. well sorted.		SW/SC - minor clay
35'-40'					Rec. 2.5' Damp		Damp
40'-45'					Rec. 4.5' Damp		Strong clay zone
45'-50'					Rec. 3.5' Strong H ₂ S carbon odor & staining - Green - decay c saturation of hydrocarbons		Green c 44.5 - 45.0 SW/SC - wet. Strong pH. 46-47
50'-55'					Rec. 4.5' Red clayey sand / slight odor : staining wet		SW/SC Slight odor / stain
55'-60'					Rec. 5.0' Wet, Red clayey Sand		SC/SW - clayey Sandstone

4 1/2" surface casing

open hole 46" 44.5" 60'

T.D. 60' 9/11/00

Cypress Engineering Services

Boring ID: RW-5

Project: RECOVERY WELLS WT-1 ENGINE RM. PIT AREA
 Location: ENR/W/TW/WT-1 STATION
 Client: CES
 Driller: GPI, AMADOR HINOJOSA, MOBIL DRI/ B-6/
 Drilling method: CONTINUOUS CORE
 Boring date: 9/11/00
 Water level: 50.65 (TOC) 48.20 BGS

Sheet: 101-1
 Rockum Rod Bds - Triassic
 Job number:
 Total depth: 60'
 Boring diameter: 8" to 43' 4 1/4" 43 - T.D.
 Logged by: CMB
 Date measured: 9/14/00

No psit.

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS
	interval	number	recovery (inches)				Monitoring well installation, geotechnical properties, analytical tests, instrumentation
5-7'			12"	SPT plus 61	Tan white Sand/silt & Caliche		SM split spoon 5'-7'
10-12'			6"	SPT plus 97			SM split spoon 10'-12'
15-17'			6"	SPT plus 203	Hard drilling @ 15'		split spoon 15'-17'
					Started Coring @ 20'		
20-25'					Rec. 2.5'		SW/SL
					Red. Sandstone / fine to med. gr. well sorted minor clay.		
25-30'					Rec. 3.0'		SW/SL.
30-35'					Rec. 5.0' Damp		SW/SL.
35-40'					Rec. 4.0' Damp		
40-45'					Rec. 4.5'		SW/SL Damp
45-50'					Rec. 4.5' 42'-43'		Strong staining 42'-43'
					Strong staining @ 47'-49'		Strong staining & odor / contaminants 47.5 - 49.0 -
					Red / clayey / sandstone - med to fine gr. well sorted		
50-55'					Rec. 5.0'		Very strong staining to Bl. SW/SL
					Continued strong staining Hydrocarbon odor to 51'		
55-60'					Rec. 5.0' /		Increase in clay on core.

4 1/2" Surface casing
 Drill pipe down to open hole.
 43' to 44 1/4" 460'

Cypress Engineering Services

Boring ID: RW-6

Project: Recovery Wells WT-1 Engine Rm. Pit Sheet: 1 of 1
 Location: Eaton/TWP/WT-1
 Client: CEB Job number: _____
 Driller: GPI, Amador Hinojosa Mabil/Dri/B-6/ Total depth: 60'
 Drilling method: Continuous Core Boring diameter: 8" to 43' 4 1/4" 43-T2
 Boring date: 9/12/00 Logged by: CMB.
 Water level: 50.65 (P.C.) 48.20 BGS Date measured: 9/14/00
NO PSA NOASH 50.88 TOC 48.80 BGS

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
10'	5'-7'	6"	SPT 50 Blows		Hard drilling, Rock/Caliche @ Surface to 2' Tan Brown/white Sand/silt/Caliche		
15'	10'-12'	6"	75 SPT Blows				
20'	15'-17'	6"	190 SPT Blows		Harder @ 15'		
30'					20'-25': Rec. 4.2' Red. med to fine gr. Sand. trace clay. well sorted. 25'-30': Rec. 3.0'		SW/minor SC
40'					30'-35': Rec. 4.5' Increase in clay. to 10% 35'-40': Rec. 5.0'		@ 30.5' 3" clay zone mixed with caliche. SW/SC
50'					40'-45': Rec. 4.5' 45'-50': Rec. 5.0' NO odor or staining		Damp./NO odor. NO odor or staining
60'					50'-55': Rec. 5.0' Increase in clay No odor - wet 55'-60': Strong clay mixed with Red. fine to med gr. well sorted Sand.		SC/SW clayey Red Sandstone wet. SC/SW

4 1/2" Surface Casing
 43' 4 1/4" open hole
 60'

Cypress Engineering Services

Boring ID: RW-7

Project: RECOVERY WELLS WT-1 ENGINE ROOM PIT AREA Sheet: 1 OF 1

Location: Enron/Tur/WT-1

Client: CES

Driller: GPI, Amador Hinojosa Mobil/Dail/B-61

Drilling method: Continuous Case

Boring date: 9/13/00

Water level: No pstat, H₂O @ 50.80', 62.52.T.D.

Job number:

Total depth: 60.2'

Boring diameter: 8" to 43', 4 1/4" 43'-T.D.

Logged by: CMB

Date measured: 9/24/00

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
5-7	12"	47	47	Blows	White/sand/silt Caliche. Hard drilling @ 14'		split spoon 5'-7'
10-12	6"	05	05	Blows			split spoon 10'-12'
15-17	6"	180	180	Blows			split spoon 15'-17'
20'-25"					20'-25" Rec. 5.0' Red sandstone, fine to med. gr. well sorted. minor clay - pods		SW/SC clay is phaeocryst in clay matrix.
25'-30'					25'-30': Rec. 5.0'		
30'-35'					30'-35': Rec. 5.0' minor clay		SW/SC
35'-40'					35'-40': Rec. 5.0' minor		SW/SC
40'-45'					Hydrocarbon staining Very strong Mercaptan? odor. Damp		Very strong odor minor staining. Damp - staining.
45'-50'					40-45': Rec. 5.0. Strong staining 43'-45' clayey @ 45'		Strong odor/very strong staining 43'-45' Damp - Strong Mercaptan.
50'-55'					45'-50': Rec. 5.0' Hydrocarbon saturated 46-46.5' - oil.		SW/SC Wet oil 46.5-46.0 Hydrocarbon - stained core/stain smud.
55'-60'					50'-55': Rec. 5.0' 55'-60': Rec. 5.0. Increase in clay 57'-T.D.		to T.D. strong odor to T.D. Increase in clay.

4 1/4" surface casing
4 1/4" open hole
T.D. 60.2'
9/15/00

Cypress Engineering Services

Boring ID: RW-8Project: RECOVERY WELLS WT-1 ENGINE ROOM PIT AREASheet: 1 OF 1Location: ENRON / TWP / WT-1Client: CEC

Job number:

Driller: GPI, Amanda Hinojosa MDE 11/13-61Total depth: 60.1' (60.1')Drilling method: CONTINUOUS CASEBoring diameter: 8" to 4 1/4" to T.O.Boring date: 9/14/00Logged by: CMBWater level: No pwt, H₂O @ 50.05' TD. 62.17.Date measured: 9/24/00

(From Top)

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
5'-7'			12" SPT blow 47		White Tan Sand/silt and Caliche. Harder drilling @ 12' Hard cemented Caliche		SM. Split Spoon 5'-7'
10'-12'			+ 12" SPT blow 65				Split Spoon 10'-12'
15'-17'			6" SPT blow 107		@ 17' Hard. Sandstone?		Split Spoon. 15'-17'
20'-25'					Started Coring @ 20' Red Clayey Sandstone. 20'-25': Rec. 5.0'		SW/SC
25'-30'					25'-30': Rec. 5.0'		
30'-35'					30'-35': Rec. 5.0' Slight odor @ 35'		1" clay @ 35'
35'-40'					35'-40': Rec. 5.0' strong staining @ 40' w/ odor.		SW/SC
40'-45'					40'-45': Rec. 4.0' Damp Red sandstone / strong odor clay. @ 43' green Sandstone 0.6' thick Damp		SW/SC Damp w/ odor @ 43' - green Sandstone 0.6' thick Damp
45'-50'					45'-50': Rec. 5.0'		
50'-55'					Clayey med. gr. Red. Sandstone strong odor - minor staining clay clasts to 1/2" - 1" in length		clay/clasts to 1/2" x 1" Damp - Wet (SW/SC)
55'-60'					50'-55': Rec. 5.0' - fine gr. Red micaceous Sandstone well sorted. strong odor minor staining / wet.		Wet / W / strong odor.

Surface Casing to 43' 44.5' Hole Problems - could not get casing past 43'

Open hole to 60'

T.O.
60.1
9/24/00

Cypress Engineering Services

Boring ID: RW-9

Project: Recovery Wells WT-1 ENGINE ROOM PIT AREA Sheet: 1 OF 1

Location: Enron / Twp / WT-1

Client: CES

Job number:

Driller: GPI, Amador Hinojosa MOB: / DR: / B-6

Total depth: 60.2' 9/22/00

Drilling method: Continuous Core

Boring diameter: 8" to 43', 4 1/4" 43' - T.D.

Boring date: 9/20/00

Logged by: CMB

Water level: No psk, H₂O @ 48.15, T.D. @ 59.98

Date measured: 9/24/00

(FROM TOU)

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
5'-7'				12" SPT blows 45	DRILLING ON West Side of former PIT AREA. white / Tan: sand / silt / sand Caliche.		SM split spoon 5'-7'
10'-12'				12" SPT blows 63	13'-14': Slight odor		Split Spoon 10'-12'
15'-17'				12" SPT blows 87	Staining of Caliche 14': GRAY staining w/ strong odor.		Split Spoon 15'-17'
20'-25'					Started Coring @ 20': 20'-25': Rec. 5.0' 20'-22': green / black. Clayey red sand / brecciated Strong Hydrocarbon staining & odor. 22'-25': Red clayey sand Strong odor.		SW/SC 20'-22': strong odor green / black sewer smell
25'-30'					25'-30': wet oily @ 30' 28'-30': saturated w/ oil Hydrocarbon - Red sand some mica. / clayey: Rec. 5' Saturated to 32' 30'-35': Rec. 35'-40': Rec. 5.0' 36'-38'		SW/SC 28'-30': oil saturated to 32' 30'-35': Rec. 5'
40'-45'					Saturated in 2' inch sections with oil: Strong odor in core 40'-45': Rec. 4.5' Saturated 42.7' - 43.7' - Red / clayey sand 45'-50': Rec. 5.0 Damp		36'-38': oil / Saturated Strong Sewer Smell. Saturated w/ oil. 42.7' - 43.7 - Strong odor.
50'-55'					50'-55': Rec. 5.0 Wet. a Strong odor.		SW/SC Red clayey sand wet w/ H ₂ O
55'-60'					55'-60': Red clayey sand Rec. 5.0 - wet - T.D. 60'		

4 1/4" Surface Casing
Surface Casing Set @ 42.8' BGS

Open hole 43'-60.2'

T.D.
60.2'
9/24/00

Cypress Engineering Services

Boring ID: RW-10

Project: RECOVERY WELLS WT-1 ENGINE ROOM PIT AREA

Sheet: 1 of 1

Location: Enron/Twp/Wt-1

Client: CES

Job number:

Driller: GPI AMADOR HINOJOSA MOBIL DRILL/B-61

Total depth: 60.1' 9/24/00

Drilling method: 9/24/00 CONTINUOUS CORE

Boring diameter: 8" to 43', 4 1/4" 43'-T.D.

Boring date: 9/24/00

Logged by: CMB

Water level: No psh, H₂O 48.12, T.O. 59.90
(From Top)

Date measured: 9/24/00

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
5'-7'		6"	56 SPT Blows		Drilling on SW side of PIT. Caliche/Ten white mixed with Sand Silt.		SM 5'-7' : 56 SPT Blows.
10'-12'		6"	152 SPT Blows		Contamination @ 10' Gray /stinky/ Hydrocarbon odor. Sand/silt/caliche.		10'-12' : 152 SPT Blows.
15'-17'		6"	180 SPT Blows				15'-17' : 180 SPT Blows.
20'-25'					20-25' Rec. 4.2' Green/white/Red mottled clayey sand - strong odor		SW/SC Numerous
25'-30'					25-30' Rec. 5.0' Saturated in 2 inch sections throughout core.		Saturated in 2" Sect, on - saturation strong odor/stinky
30'-35'					30'-35' Rec. 5.0' Red micaceous clayey sand strong odor - damp. minor staining		SW/SC Fat/clay 36'-37.0
35'-40'					35'-40' Rec. 5.0' @ 36' strong oil saturation Very Fat/clay @ 36'-37'		clayey Red Sand 37'-40' : oil sat @ 36'
40'-45'					40'-45' Rec. 5.0' Increase in clay @ 44.5'		SW/SC Increase in clay 44.5' - 45.0' CH
45'-50'					45'-50' Rec. 5.0' Damp - Red/clayey sand		SW/SC Damp
50'-55'					50'-55' Rec. 5.0' wet/odor		SW/SC Red, med gr. to fine gr. well sorted clayey sand.
55'-60'					55'-60' Rec. 5.0' Wet/odor		strong odor.

T.D. 60' w/ core

4 1/4" Surface Casing
43.0'
4 1/4" Open hole to TC
9/24/00

Cypress Engineering Services

Boring ID: RW-11

Project: Recovery Well 16 WT-1 Engine Room Pit Area

Sheet: 1 OF 1

Location: Enron / Turb / WT-1

Client: CEC

Job number:

Driller: GPI AMADOR HINOJOSA MOBIL DAI/B-61

Total depth: 60.2' 9/24/00

Drilling method: Continuous Core

Boring diameter: 8" To 43' 4 1/4" 43'-5.0'

Boring date: 9/22/00

Logged by: CMB

Water level: From Log, No psh, H₂O 50.90'

Date measured: 9/24/00

T.O. @ 59.57' 9/24/00

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
10'	5'-7'	6"	6"	SPT Blows 103	White / Tan / Sand. Silt / Caliche. Very Hard drilling No - odor NE/END/pit		SM Split Spoon 5-7'
20'	10'-12'	6"	6"	SPT Blows 187	NO ODOOR 0-20' @ 19.8' - Red Sandstone.		Split Spoon 10'-12'
	15'-17'	6"	6"	SPT Blows 200			Split Spoon 15'-17'
30'					Started Coring @ 20' 20'-25': Rec. 4.5' Tan brown / To 11.5' green med. to fine gr. well sorted sandstone. No odor. or staining		SW: -26'-27' clay zone-
					25'-30': Rec. 3.5'		SW
40'					clayey @ 26-27' 30'-35': Rec. 5.0' R-L. Clayey Sand / 34'-35'		SW SW/SC
					35'-40': Rec. 5.0' Red clayey Sand. med gr. well sorted. little odor		SW/SC Little Hydrocarbon odor & staining
50'					40'-45': Rec. 5.0' moderate staining & odor.		Strong clay 44.5'-45.0' DAMP
					45'-50': Rec. 5.0' Red clayey Sand		wet / light odor.
60'					50'-55': Rec. 5.0' Red clayey Sand		Little or no staining or odor
					55'-60': Rec. 5.0' Red clayey Sand		

T.O. 60'

60.2'
T.O.
9/24/00

Cypress Engineering Services

Boring ID: RW-12

Project: Recovery Wells WT-1 Engine Room Pit Area Sheet: 1 of 1

Location: Enron/TWR/WT-1

Client: CES

Job number:

Driller: GPI Amador Hinojosa Mobil Ref B-6

Total depth: 60.2 9/24/00

Drilling method: Continuous Core

Boring diameter: 8" to 43' 4 1/4" 43' - T.D.

Boring date: 9/23/00

Logged by: CMP

Water level: From Log 9/24/02, No psh, H₂O 49.17' T.D. @ 60.09'

Date measured: 9/24/00

depth (ft)	SAMPLE			standard penetration test results	SOIL DESCRIPTION Color, soil type, relative density or consistency, mineralogy, USGS classification moisture content	graphic log	COMMENTS Monitoring well installation, geotechnical properties, analytical tests, instrumentation
	interval	number	recovery (inches)				
10'	5'-7'	6"	SPT Blow 75		White/Tan / sand Silt / Colicite No odor		Split Spoon 5'-7' <u>SM</u>
10'	10'-12'	6"	SPT Blow 85		No odor		Split Spoon 10'-12'
10'	15'-17'	6"	SPT Blow 112		Tan brown Sand / silt / Colicite. No odor or staining 0'-20'		Split Spoon 15'-17' <u>SM</u>
30'					Started Coring @ 20' 20'-25': Rec. 16" Red clayey Sandstone. med. to fine gr. well sorted, No odor		SW/SC
30'					25-30: No Recovery changed core bit		New Core Bit @ 30'
40'					30'-35': Rec. 5.0' @ 34' Damp w/ Hydrocarbon odor. Red / clayey Sand.		SW/SC: Light Hydrocarbon odor.
40'					35'-40': Rec. 5.0' Damp.		
50'					40'-45': Rec. 5.0 Damp Red / clayey Sand. 40'-48'		Very light odor. SW/SC
50'					45-50: Rec. 5.0. Damp		CH - 49.0' - 49.5'
60'					48'-49': Green / white Sandstone. 49' - 49.5' Fat clay. - DAMP / wet.		SW/SC Very light odor. 6' Hydrocarbon.
60'					50'-55': Rec. 5.0' wet. clayey Red SS.		No odor.
60'					55'-60: Rec. 5.0' wet. Red Sandstone / clayey. TD, SW/SC fine to med. gr., well sorted. 60' No odor. 1 wet - H ₂ O saturated.		No odor. T.D. 60.2'

4 1/4" Surface Casings - 430'
4 1/4" open hole - 60.2'

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. 20-1
 Street or Post Office Address 6381 North Main St.
 City and State Roswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WD 1311

Address 8834 Circle Drive Austin, TX 78736

Drilling Began 9/17/2000 Completed 9/19/2000 Type tools Air Rotary Size of hole 4+8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 602.36 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 51.68 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Screen / Casing	Perforations	
			Top	Bottom			From	To
<u>4.5</u>	<u>2.06</u>	<u>3</u>	<u>0</u>	<u>43</u>	<u>43</u>	<u>Sch 40 PK Casing</u>	<u>N/A</u>	<u>N/A</u>
<u>4</u>	<u>N/A</u>	<u>N/A</u>	<u>43</u>	<u>60</u>	<u>17</u>	<u>Open hole</u>	<u>N/A</u>	<u>N/A</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>43</u>	<u>8</u>	<u>Cement 44 5% Bentonite</u>	<u>10.25</u>	<u>Surface Drop</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. RW-2
 Street or Post Office Address 6381 North Main St.
 City and State Moswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

- a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WD 1311
 Address 8834 Circle Drive Austin, TX 78736
 Drilling Began 9/8/2000 Completed 9/9/2000 Type tools Air Rotary Size of hole 4+8 in.
 Elevation of land surface or _____ at well is _____ ft. Total depth of well 62.45 ft.
 Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 51.98 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	SCREEN/CASING	Perforations	
			Top	Bottom			From	To
4.5	2.00	3	0	40	40	Sch 40 PVC CASING	N/A	N/A
4	N/A	N/A	40	60	N/A	Open hole	N/A	N/A

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	40	8	Cement w/ 5% Bentonite	9.5	Surface Drop

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is

**STATE ENGINEER OFFICE
WELL RECORD**

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. RW-3
 Street or Post Office Address 6381 North Main St.
 City and State Roswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

- a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WD 1311
 Address 8834 Circle Drive Austin, TX 78736
 Drilling Began 9/9/2000 Completed 9/11/2000 Type tools Air Rotary Size of hole 4+8 in.
 Elevation of land surface or _____ at well is _____ ft. Total depth of well 61.65 ft.
 Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 52.40 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Screen/ CASING	Perforations	
			Top	Bottom			From	To
<u>4.5</u>	<u>2.00</u>	<u>3</u>	<u>0</u>	<u>43</u>	<u>43</u>	<u>SCH 40 PVC CASING</u>	<u>N/A</u>	<u>N/A</u>
<u>4</u>	<u>N/A</u>	<u>N/A</u>	<u>43</u>	<u>61.65</u>	<u>18.65</u>	<u>open hole</u>	<u>N/A</u>	<u>N/A</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>43</u>	<u>8</u>	<u>Cement w/ 5% Bentonite</u>	<u>10.25</u>	<u>Surface Drop</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

Charles H. Hargrave
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. RW 4
 Street or Post Office Address 6381 North Main St.
 City and State Roswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WD 1311

Address 8834 Circle Drive Austin, TX 78736

Drilling Began 9/10/2000 Completed 9/11/2000 Type tools Air Rotary Size of hole 4+8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 62.10 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 51.94 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	SCREEN/ CASING	Perforations	
			Top	Bottom			From	To
<u>4.5</u>	<u>200</u>	<u>3</u>	<u>0</u>	<u>43</u>	<u>43</u>	<u>SCREEN/ SCH 40 PUC CASING</u>	<u>N/A</u>	<u>N/A</u>
<u>4</u>	<u>N/A</u>	<u>N/A</u>	<u>43</u>	<u>60</u>	<u>17</u>	<u>Open hole</u>	<u>N/A</u>	<u>N/A</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>43</u>	<u>8</u>	<u>Cement w/ 5% Bentonite</u>	<u>10.25</u>	<u>Surface Drop</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Charles H. Hunsicker
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is being drilled. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. PW-5
 Street or Post Office Address 6381 North Main St.
 City and State Maxwell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WD 1311

Address 8834 Circle Drive Austin, TX 78736

Drilling Began 9/11/2000 Completed 9/12/2000 Type tools Air Rotary Size of hole 4 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 62.35 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50.43 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Screen/ Casing	Perforations	
			Top	Bottom			From	To
<u>4.5</u>	<u>2.06</u>	<u>3</u>	<u>0</u>	<u>43</u>	<u>43</u>	<u>sch 40 PVC casing</u>	<u>N/A</u>	<u>N/A</u>
<u>4</u>	<u>N/A</u>	<u>N/A</u>	<u>43</u>	<u>60</u>	<u>17</u>	<u>open hole</u>	<u>N/A</u>	<u>N/A</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>43</u>	<u>8</u>	<u>Cement w/ 5% Bentonite</u>	<u>10.25</u>	<u>Surface Drop</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. PLW-6
 Street or Post Office Address 6381 North Main St.
 City and State Moswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WD 1311

Address 8834 Circle Drive Austin, TX 78736

Drilling Began 9/12/2000 Completed 9/13/2000 Type tools Air Rotary Size of hole 4+8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 62.35 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50.43 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Screen/Casing	Perforations	
			Top	Bottom			From	To
4.5	2.06	3	0	43	43	5in 40 PVC Casing	N/A	N/A
4	N/A	N/A	43	60	17	openhole	N/A	N/A

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	43	8	Cement w/ 5% Bentonite	10.25	Surface Drop

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Charles H. Simpson
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is

**STATE ENGINEER OFFICE
WELL RECORD**

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. RW 7
 Street or Post Office Address 6381 North Main St.
 City and State Moswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

- a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WA 1311
 Address 8834 Circle Drive Austin, TX 78736
 Drilling Began 9/13/2000 Completed 9/14/2000 Type tools Air Rotary Size of hole 4 1/8 in.
 Elevation of land surface or _____ at well is _____ ft. Total depth of well 62.52 ft.
 Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50.80 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Screens / Casing	Perforations	
			Top	Bottom			From	To
<u>4.5</u>	<u>2.00</u>	<u>3</u>	<u>0</u>	<u>43</u>	<u>43</u>	<u>Sch 40 PK Casing</u>	<u>N/A</u>	<u>N/A</u>
<u>4</u>	<u>N/A</u>	<u>N/A</u>	<u>43</u>	<u>60</u>	<u>17</u>	<u>open hole</u>	<u>N/A</u>	<u>N/A</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>43</u>	<u>8</u>	<u>Cement w/ 5% Bentonite</u>	<u>10.25</u>	<u>Surface Drop</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Charles H. Henshaw
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. 2W-8
 Street or Post Office Address 6381 North Main St.
 City and State Maxwell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

- a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprospects International, Inc. License No. WD 1311
 Address 8834 Circle Drive Austin, TX 78736
 Drilling Began 9/14/2000 Completed 9/15/2000 Type tools Air Rotary Size of hole 4 1/8 in.
 Elevation of land surface or _____ at well is _____ ft. Total depth of well 62.17 ft.
 Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50.05 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Screen / Casing	Perforations	
			Top	Bottom			From	To
4.5	2.00	3	0	43	43	Sch 40 PVC Casing	N/A	N/A
4	N/A	N/A	43	60	17	Open hole	N/A	N/A

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	43	8	Cement w/ 5% Bentonite	1025	Surface Drop

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is

**STATE ENGINEER OFFICE
WELL RECORD**

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. RW 9
 Street or Post Office Address 6381 North Main St.
 City and State Maxwell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

- a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprospects International, Inc. License No. WD 1311
 Address 8834 Circle Drive Austin, TX 78736
 Drilling Began 9/20/2000 Completed 9/22/2000 Type tools Air Rotary Size of hole 4 7/8 in.
 Elevation of land surface or _____ at well is _____ ft. Total depth of well 59.98 ft.
 Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 48.15 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Screens / Casing	Perforations	
			Top	Bottom			From	To
4.5	2.06	3	0	42.8	42.8	SCH 40 PVC CASING	N/A	N/A
4	N/A	N/A	42.8	60.2	17.4	open hole	N/A	N/A

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
0	42.8	8	Cement w/ 5% bentonite	10.25	Surface Drop

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. RM-10
 Street or Post Office Address 6381 North Main St.
 City and State Roswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

- a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.
 b. Tract No. _____ of Map No. _____ of the _____
 c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.
 d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WD 1311
 Address 8834 Circle Drive Austin, TX 78736
 Drilling Began 9/21/2000 Completed 9/22/2000 Type tools Air Rotary Size of hole 4+8 in.
 Elevation of land surface or _____ at well is _____ ft. Total depth of well 59.90 ft.
 Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 48.12 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	SCREEN/ CASING	Perforations	
			Top	Bottom			From	To
<u>4.5</u>	<u>2.06</u>	<u>3</u>	<u>0</u>	<u>43</u>	<u>43</u>	<u>Sch 40 PVC CASING</u>	<u>N/A</u>	<u>N/A</u>
<u>4</u>	<u>N/A</u>	<u>N/A</u>	<u>43</u>	<u>60</u>	<u>17</u>	<u>open hole</u>	<u>N/A</u>	<u>N/A</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>43</u>	<u>8</u>	<u>Cement w/ 5% Bentonite</u>	<u>10.26</u>	<u>Surface Drop</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

Cisco H. Lopez
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is

**STATE ENGINEER OFFICE
WELL RECORD**

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. 2011
 Street or Post Office Address 6381 North Main St.
 City and State Roswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WD 1311

Address 8834 Circle Drive Austin, TX 78736

Drilling Began 9/22/2000 Completed 9/23/2000 Type tools Air Rotary Size of hole 4+8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 59.97 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 50.90 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Screen/ Casing	Perforations	
			Top	Bottom			From	To
<u>4.5</u>	<u>200</u>	<u>3</u>	<u>0</u>	<u>43</u>	<u>43</u>	<u>Sch 40 PVC CASING</u>	<u>N/A</u>	<u>N/A</u>
<u>4</u>	<u>N/A</u>	<u>N/A</u>	<u>43</u>	<u>60</u>	<u>17</u>	<u>open hole</u>	<u>N/A</u>	<u>N/A</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>43</u>	<u>8</u>	<u>Cement w/ 5% Bentonite</u>	<u>10.26</u>	<u>Surface Drop</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____
 Address _____
 Plugging Method _____
 Date Well Plugged _____
 Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

Charles H. Hines
Driller

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**STATE ENGINEER OFFICE
WELL RECORD**

Section 1. GENERAL INFORMATION

(A) Owner of well Transwestern Pipeline Co. Owner's Well No. 2W-12
 Street or Post Office Address 6381 North Main St.
 City and State Roswell, New Mexico 88201

Well was drilled under Permit No. N/A and is located in the:

a. SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 31 Township 20 South Range 32 East N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
 Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
 the _____ Grant.

(B) Drilling Contractor Geoprojects International, Inc. License No. WA 1311

Address 8834 Cirale Drive Austin, TX 78736

Drilling Began 9/23/2000 Completed 9/24/2000 Type tools Air Rotary Size of hole 4 1/2 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 60 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 49.17 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	SCREEN / CASING	Perforations	
			Top	Bottom			From	To
<u>4.5</u>	<u>200</u>	<u>3</u>	<u>0</u>	<u>43</u>	<u>43</u>	<u>Sch 40 PVC CASING</u>	<u>N/A</u>	<u>N/A</u>
<u>4</u>	<u>N/A</u>	<u>N/A</u>	<u>43</u>	<u>60</u>	<u>17</u>	<u>open hole</u>	<u>N/A</u>	<u>N/A</u>

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>43</u>	<u>8</u>	<u>Cement w/ 5% Bentonite</u>	<u>10.26</u>	<u>Surface Drop</u>

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>			
<u>2</u>			
<u>3</u>			
<u>4</u>			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

[illegible]

Charles Hingerson
Driller

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Cypress Engineering

10235 West Little York Road, Suite 256
Houston, Texas 77040

(713) 856-7980 office
(713) 856-7981 fax

DP-109

January 30, 2002

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

FEB 05 2002

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: Report of Ground Water Remediation Activities
Transwestern Pipeline Company - WT-1 Station Dehy Area
Lea County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for reporting of ground water remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (713) 345-1537 or Larry Campbell at (505) 625-8022.

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment: Larry Campbell
Larry Johnson

Transwestern Pipeline Company
NMOCD Hobbs District Office

Report of Ground Water Remediation Activities

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

RECEIVED

FEB 05 2002

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

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

January 30, 2002

**Prepared For:
Transwestern Pipeline Company
6381 North Main Street
Roswell, NM 88201**

**Prepared by:
Cypress Engineering Services, Inc.
10235 West Little York Road, Suite 256
Houston, Texas 77040**

Report of Groundwater Remediation Activities

Transwestern Pipeline Company

WT-1 Compressor Station Dehy Area

I. Groundwater Monitoring Activities

Semiannual Groundwater Sampling Events

Four semi-annual sampling events have been completed since the last report of groundwater remediation activities. These events were completed on February 13, 2000, August 21, 2000, February 17, 2001, and August 15, 2001. In addition to the routine groundwater sampling events, selected wells were sampled in November 1999 and June 2000.

Prior to sampling, the depth to water, and the depth to hydrocarbon where phase separated hydrocarbon (PSH) was present, was determined for each monitor well and soil vapor extraction (SVE) well. The measured depths and the corresponding water table elevation for each monitor well are presented in Table 1. The measured depths and the corresponding water table elevation for each SVE well are presented in Table 2.

In the course of each sample event, groundwater samples were collected from each of the monitor wells at the site with the exception of MW-10. Samples were not collected from MW-10 during the August 21, 2000 event or the February 17, 2001 event due to PSH accumulation in the well casing. Groundwater samples were delivered to a laboratory for analysis by EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes (BTEX). A summary of the laboratory results and field-measured parameters is presented in Table 3.

Results/Conclusions from Groundwater Sampling Events

Occurrence and Direction of Groundwater Flow

A groundwater surface elevation map, based on measurements obtained on August 15, 2001 is included as Figure 3. The groundwater flow direction is toward the north and is consistent with the flow direction indicated by information obtained in the course of previous sampling events.

Lateral Extent of Phase Separated Hydrocarbon

The lateral extent of PSH has been defined by the occurrence of PSH at the water table in monitor well MW-10 and wells SVE-10, SVE-11, SVE-12, and SVE-13. However, during the last four sampling events, the presence of PSH in these wells has been intermittent. Furthermore, PSH was absent from all wells during the last sampling event. Based on the information currently available, the volume and lateral extent of PSH in the area appears to be relatively limited.

Condition of Affected Groundwater

The condition of affected groundwater has not changed significantly from previous sampling events as evidenced by the information presented in Table 3 and Figure 4. The three monitor wells downgradient of the release area 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 below NMWQCC Standards for BTEX constituents for the last seven sampling events.

II. Planned Changes to the Groundwater Monitoring Program

Frequency of Groundwater Monitoring

Sampling locations, frequency, and the sample analysis plan will continue as outlined in Table 6. Note that two additional wells, SVE-13 and SVE-14, have been added to the sampling schedule in an effort to evaluate natural attenuation of dissolved phase constituents within the affected area.

Routine Reporting of Monitoring Activities

Routine reporting will continue on an annual basis. The next annual report will be submitted to the OCD by January 2003.

III. Status of Remediation Activities

Remediation Activities Completed

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

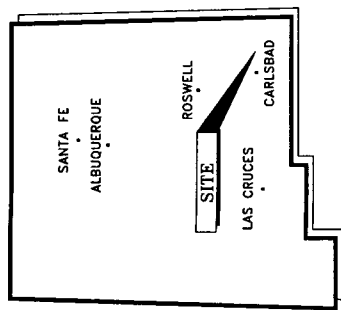
- 1) A request to utilize remediated soil as backfill material on-site was submitted to the NMOCD on February 23, 2000.
- 2) Four groundwater-sampling events were completed.
- 3) Routine O&M of the SVE system continued through October 2001. The system was shut down in October 2001 due to problems associated with operating the system in cold weather conditions.
- 4) A water recovery system operated on a limited basis between December 1998 and July 2000. A single pneumatic recovery pump was utilized for total liquids recovery. The pump was routinely rotated between wells that contained accumulated PSH in the well casing. The purpose was to accelerate the recovery of PSH, to establish a maximum sustainable recovery rate for the perched water zone, and to evaluate the effect that water recovery would have on the dissolved phase plume. The maximum sustainable recovery rate from any of the wells utilized was about 0.5 gpm (720 gpd) and was primarily water (greater than 99% water). Vapor extraction continued during liquid recovery (dual phase extraction). The recovery system was effective at reducing the accumulation of PSH in wells; however, there was no noticeable effect on the dissolved phase plume concentrations. As a result, the recovery of water has been discontinued.

Current Status of Remediation Activities

The SVE system was shut down in October 2001 due to problems associated with operating the system in cold weather conditions.

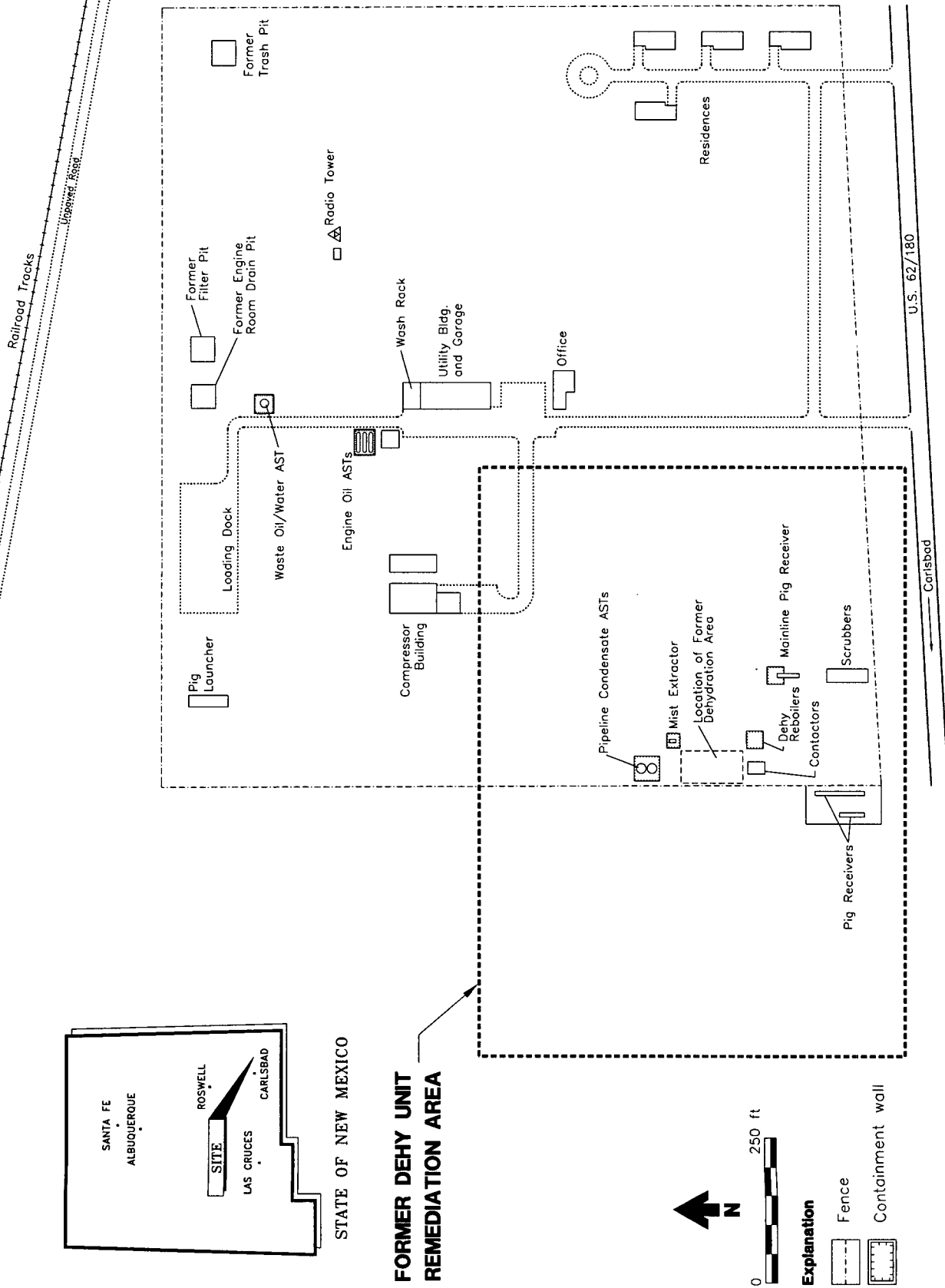
Remediation Activities Planned

The SVE system will be placed back in service in April 2002. There are no plans at this time to re-activate the water recovery system.



STATE OF NEW MEXICO

FORMER DEHY UNIT REMEDIATION AREA



Facility Site Map

WT-1 COMPRESSOR STATION
TRANSWESTERN PIPELINE COMPANY

CYPRESS ENGINEERING SERVICES, INC.

Figure 1

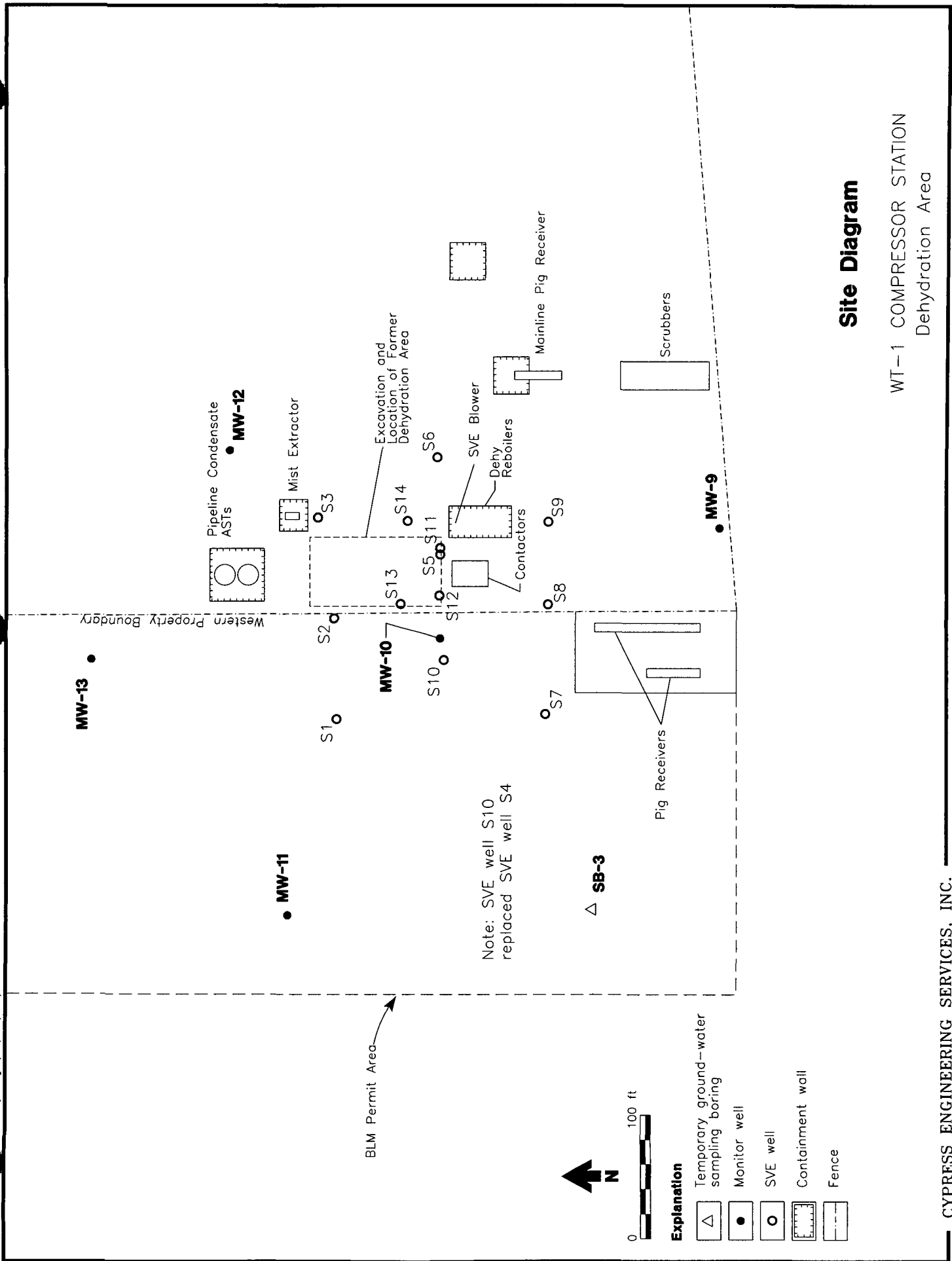


Figure 2

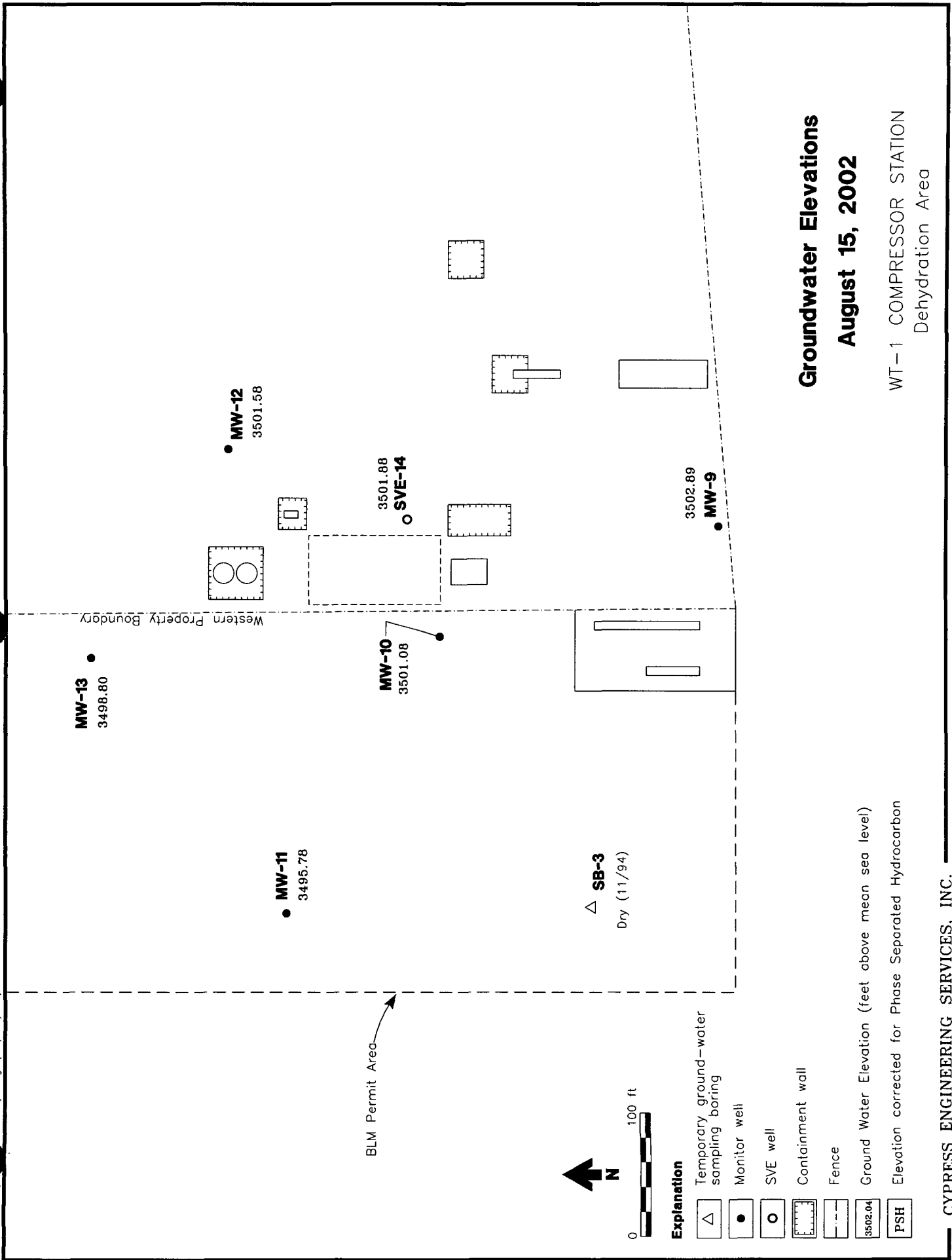
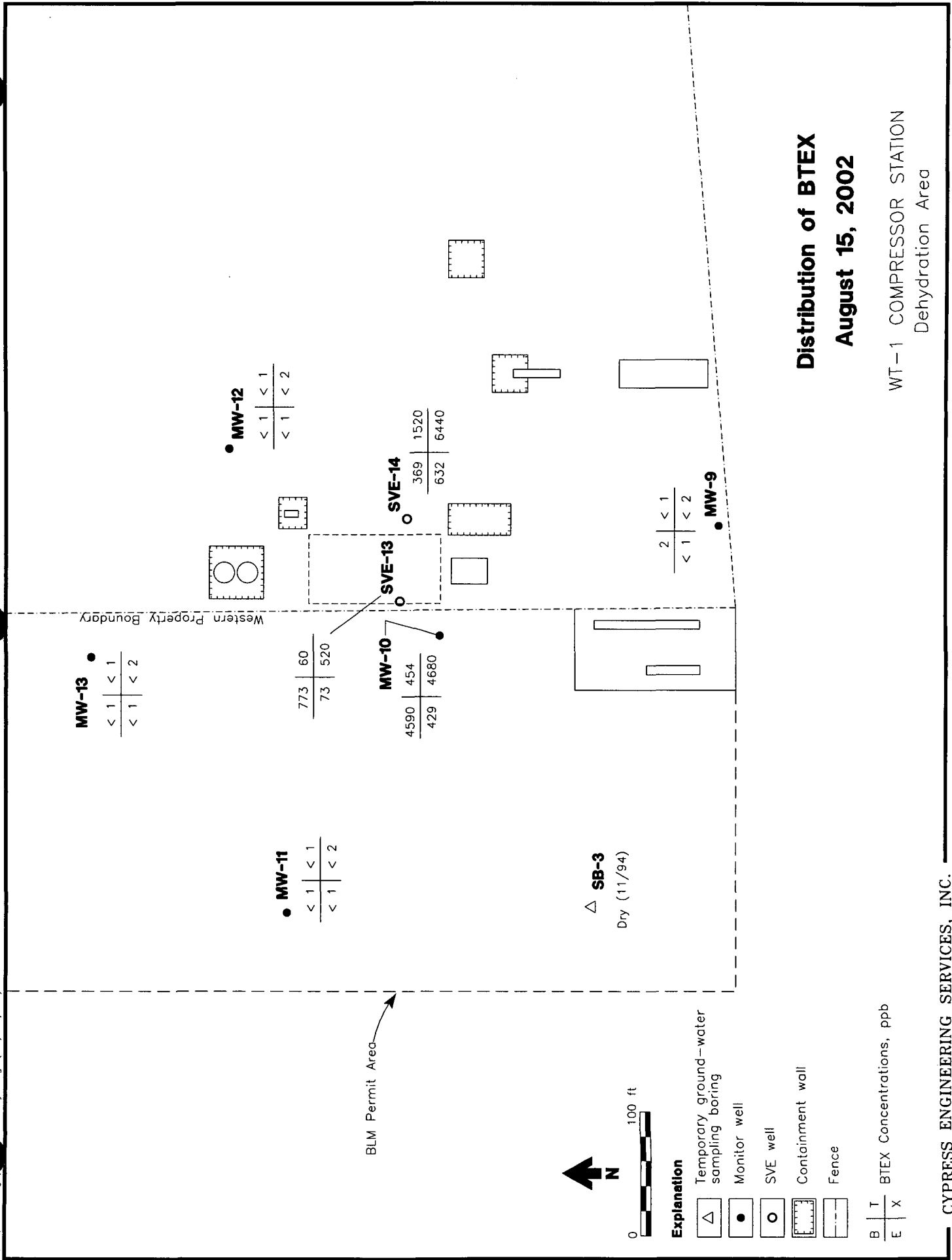


Figure 3



Distribution of BTEX

August 15, 2002

WT-1 COMPRESSOR STATION
Dehydration Area

B T X
E X

Figure 4

**Table 1. Summary of Ground Water 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
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

**Table 1. Summary of Ground Water 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	04/20/00		(a)	55.19	(a)	3498.26
	05/11/00		(a)	54.14	(a)	3499.31
	05/25/00		53.66	53.98	0.32	3500.59
	06/08/00		(a)	58.24	(a)	3495.21
	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
	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
	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
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

**Table 1. Summary of Ground Water 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)
	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
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

NOTES:

PSH - Phase separated hydrocarbon

Corrections to ground water surface elevation for presence of hydrocarbon is calculated assuming 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, Houston, TX dated 08/11/99

**Table 2. Summary of Ground Water 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
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
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
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

**Table 2. Summary of Ground Water 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-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
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
SVE-7	05/14/96	3553.81 (e)	(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
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

**Table 2. Summary of Ground Water 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-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
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

**Table 2. Summary of Ground Water 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

**Table 2. Summary of Ground Water 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

**Table 2. Summary of Ground Water 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

**Table 2. Summary of Ground Water 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

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

**Table 3. Summary of Ground Water 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	
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	
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	< 2	
	05/14/96	-	-	-	-	< 2	< 2	< 2	< 2	
	08/12/96	-	7.11	25.7	2,050	< 2	< 2	< 2	< 3	
	11/11/96	6.0	7.15	19.9	-	< 2	< 2	< 2	< 2	
	02/05/97	7.0	7.56	14.8	2,300	< 2	< 2	< 2	< 2	
	08/05/97	5.3	7.19	21.2	2,280	< 2	< 2	< 2	< 2	
	02/24/98	6.5	7.35	18.8	2,100	< 5	< 5	< 5	< 5	
	08/05/98	7.2	7.15	20.4	2,250	< 1	< 1	< 1	< 1	
	02/12/99	-	-	-	-	< 1	< 1	< 1	< 1	
	08/11/99	8.8	7.42	20.8	1,800	< 2	< 2	< 2	< 2	
	02/13/00	6.6	7.83	19.6	2,050	< 1	< 1	< 1	< 1	
	08/21/00	(a)	6.7	7.41	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	

**Table 3. Summary of Ground Water 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 (µs/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
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
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

**Table 3. Summary of Ground Water 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 (μs/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	(a)	-	-	-	1,600	1,900	440	2,430
	08/21/00	(a)	5.6	7.25	22.8	2,100	2,900	380	2,620
	@ 1 well vol		-	-	-	819	1,130	297	1,900
	02/18/01		-	-	-	3,740	5,910	344	3,880
	(Dup MW-18)		-	-	-	2,150	3,290	445	2,910
	08/15/01		-	-	-	369	1,520	632	6,440
AST	11/18/99	-	-	-	-	290	67	48	310
	03/09/00	-	-	-	-	590	750	92	600

NOTES:

- (a) Trip Blank contained low concentrations of BTEX constituents.
- (b) No sample collected due to insufficient volume of water in well.
- (c) @ 1 CV - Sample collected after purging 1 casing volume. All other samples were collected after purging 3 casing volumes.
- (d) Dup MW-17 - Blind duplicate sample collected and labeled as MW-17.

**Table 4. Summary of SVE Emissions at Individual Extraction Points
TW WT-1 Compressor Station Dehy Area**

SVE Well	Date	PID Reading	Gasoline Range VOCs		< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ppmv)	(ug/L)	(ppmv) ^(a)	(%)									
SVE-1	08/15/96	0	510	127	3.0	11.3	21.0	28.1	22.9	10.8	2.7	0.2	0.0	0.0
	08/06/97	4.6	25	6	0.5	0.6	2.5	5.8	12.0	16.5	27.6	18.0	12.1	4.4
SVE-2	08/15/96	0	510	127	0.9	6.0	20.9	33.7	25.3	10.3	2.4	0.2	0.0	0.3
	02/06/97		20	5	0.0	5.5	27.2	27.9	16.9	14.3	7.0	0.9	0.3	0.0
	08/06/97	14.0	210	52	0.0	0.0	1.2	9.3	30.7	33.1	15.5	7.5	1.8	0.8
	12/30/97		360	89	0.1	0.5	1.6	11.4	20.6	18.7	19.4	16.7	11.0	0.0
	08/12/98		140	35	0.0	0.2	2.4	11.6	26.9	28.5	21.4	6.7	2.3	0.0
SVE-3	08/15/96	> 2000	14,000	3,478	0.7	16.9	40.6	32.0	9.1	0.7	0.0	0.0	0.0	0.0
	02/06/97		1,900	472	0.0	6.1	33.2	56.5	4.1	0.1	0.0	0.0	0.0	0.0
	08/06/97	146.0	14,000	3,478	0.2	2.8	27.9	40.0	21.5	6.3	1.2	0.1	0.0	0.0
	12/30/97		16,000	3,974	0.2	4.8	26.9	37.6	21.9	6.8	1.2	0.5	0.1	0.0
	08/12/98		11,000	2,732	0.0	3.3	19.6	40.2	25.7	8.6	2.2	0.4	0.0	0.0
SVE-4	08/15/96	> 2000	18,000	4,471	0.5	12.6	36.6	34.6	14.3	1.3	0.1	0.0	0.0	0.0
	02/06/97		4,400	1,093	0.0	15.9	21.0	55.3	7.5	0.3	0.0	0.0	0.0	0.0
	08/06/97	107.0	7,700	1,913	0.2	2.4	17.9	35.3	28.4	11.7	3.6	0.5	0.0	0.0
	12/30/97		10,000	2,484	0.0	1.4	9.9	32.0	31.4	20.8	3.7	0.8	0.0	0.0
	08/12/98		5,600	1,391	0.0	1.1	6.4	25.9	32.0	24.9	5.1	2.9	1.3	0.4
SVE-5	08/15/96	> 2000	16,000	3,974	0.4	16.7	36.1	30.6	13.8	2.3	0.1	0.0	0.0	0.0
	02/06/97		4,200	1,043	0.0	8.3	30.3	53.2	7.3	0.9	0.0	0.0	0.0	0.0
	08/06/97	126.0	10,000	2,484	0.3	3.7	21.9	37.8	24.5	9.0	2.4	0.4	0.0	0.0
	(dup) 08/06/97		11,000	2,732	0.2	3.8	22.0	37.9	24.4	9.0	2.3	0.4	0.0	0.0
	12/30/97		14,000	3,478	0.0	2.4	13.1	35.9	35.7	9.7	2.6	0.5	0.1	0.0
SVE-6	08/12/98		9,400	2,335	0.0	3.0	6.3	45.1	29.1	12.0	3.5	0.8	0.2	0.0
	08/15/96	> 2000	4,100	1,018	0.0	13.2	25.5	23.2	29.4	8.5	0.2	0.0	0.0	0.0
	02/06/97		2,000	497	0.0	1.3	14.2	55.6	27.0	1.9	0.0	0.0	0.0	0.0
	08/06/97	15.2	120	30	0.0	0.2	2.1	18.2	28.7	26.1	15.5	7.4	1.8	0.0
	12/30/97		450	112	0.0	4.6	7.9	15.5	17.2	21.4	11.7	15.7	6.0	0.0
SVE-7	08/12/98		110	27	0.0	5.4	5.9	20.8	24.1	17.9	16.3	6.9	2.7	0.0
	08/15/96	> 2000	1,400	348	0.5	2.4	13.6	33.0	35.0	14.8	0.5	0.0	0.2	0.0
	02/06/97		560	139	0.0	0.9	10.6	49.8	34.5	4.2	0.0	0.0	0.0	0.0
	08/06/97	6.7	37	9	0.0	0.4	1.5	9.6	20.5	30.1	21.8	12.5	3.6	0.0
	08/15/96	> 2000	12,000	2,981	0.3	23.9	39.1	25.7	8.9	1.9	0.2	0.0	0.0	0.0
SVE-8	02/06/97		890	221	0.0	4.0	16.4	45.7	28.6	5.2	0.1	0.0	0.0	0.0
	08/06/97	48.0	700	174	0.9	5.5	19.0	29.0	26.8	12.7	5.0	1.0	0.0	0.0
	12/30/97		2,500	621	0.7	3.1	13.1	25.9	23.5	22.8	8.0	2.4	0.5	0.0
	08/12/98		70	17	0.0	2.4	11.2	29.2	24.1	19.1	8.6	3.7	1.7	0.0
	08/15/96	> 2000	5,700	1,416	6.7	18.2	24.3	31.0	15.0	4.2	0.2	0.1	0.1	0.1
SVE-9	02/06/97		2,400	596	0.0	7.8	31.3	50.5	9.3	1.1	0.1	0.0	0.0	0.0
	08/06/97	132.0	7,600	1,888	0.0	3.6	40.0	27.7	19.2	8.1	1.1	0.3	0.0	0.0
	12/30/97		7,000	1,739	0.0	3.7	23.1	39.3	23.9	6.6	2.5	0.7	0.2	0.0
	08/12/98		5,900	1,466	0.0	4.7	29.0	37.4	19.1	6.9	2.2	0.6	0.1	0.0
	08/15/96	> 2000	17,000	4,223	0.1	2.3	13.3	32.9	30.5	18.3	2.1	0.5	0.0	0.0
MW-10	08/12/98		13,000	3,229	0.0	4.5	6.2	27.4	41.2	13.8	5.1	1.2	0.6	0.0

**Table 4. Summary of SVE Emissions at Individual Extraction Points
TW WT-1 Compressor Station Dehy Area**

SVE Well	Date	PID Reading	Gasoline Range VOCs		< C5	C5-C6	C6-C7	C7-C8	C8-C9	C9-C10	C10-C11	C11-C12	C12-C14	C14+
		(ppmv)	(ug/L)	(ppmv) ^(a)	(%)									
Total														
(Core Lab)	02/10/97			6,240										
	03/20/97		6,600	1,639	0.0	2.7	29.3	32.1	23.2	9.2	3.0	0.4	0.1	0.0
(Core Lab)	03/20/97			1,740										
	08/06/97		5,000	1,242	0.3	4.0	21.2	34.8	25.3	10.2	3.5	0.7	0.0	0.0
	12/30/97		7,300	1,813	0.0	2.4	13.6	35.0	29.0	16.9	2.6	0.4	0.1	0.0
	08/05/98		6,500	1,615	0.0	1.3	15.4	32.2	30.5	13.7	5.2	1.3	0.4	0.0
	08/12/98		5,300	1,317	0.0	1.5	8.9	30.9	30.5	22.5	4.7	0.9	0.1	0.0
(dup)	08/12/98		5,000	1,242	0.1	1.5	8.8	31.8	32.9	18.0	5.0	1.4	0.4	0.1
	04/13/99		6,800	1,689	0.0	1.2	8.0	28.5	32.7	23.6	3.9	1.8	0.3	0.0
	12/07/99		4,800	1,192	0.1	6.2	17.6	31.8	28.8	10.0	4.2	0.9	0.2	0.2
(dup)	12/07/99		4,900	1,217	0.1	6.2	17.5	32.3	28.6	9.7	4.2	1.1	0.3	0.0
	05/22/00(b)		3,700	919	0.0	3.8	13.4	35.0	28.7	12.4	4.7	0.8	0.6	0.6
(dup)	05/22/00(b)		6,300	1,565	0.0	3.2	12.1	34.1	31.5	11.4	5.4	1.6	0.6	0.1
	06/15/00(b)		3,000	745	0.1	3.9	16.6	37.7	29.8	8.6	2.1	0.6	0.1	0.5
(dup)	06/15/00(b)		3,700	919	0.1	3.3	15.4	32.6	29.8	10.9	5.8	1.6	0.4	0.1
	08/21/00(b)		3,900	969	0.0	2.9	12.2	28.7	30.0	15.4	7.9	2.4	0.5	0.0

All air samples analyzed by Hall Laboratory of Albuquerque, NM

PID = Photoionization detector

^(a) Conversion Factor:

$P = 0.88 \text{ atm}$, $MW = 110 \text{ g/mole}$, $R = 0.08205 \text{ L} \cdot \text{atm}/(\text{K} \cdot \text{mole})$, $T = 293^\circ\text{K}$

$C \text{ ppmv} = C \text{ ug/L} \cdot ((R \cdot T)/(MW \cdot P))$

$C \text{ ppmv} = C \text{ ug/L} \cdot 0.2484$

^(b) Total Flow analysis included wells SVE-11, 12, 13, 14 & MW-10

**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 Drig/DBS	11/18/94	3557.31 (b)	-1209.40	-1254.20	60.5	na	Flush Mount	2	44-59	40.5
MW-10	Eades Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/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 Drig/DBS	10/05/95	3552.75 (d)	-888.70	-1245.80	55.0	55.30	Flush Mount	2	35-55	32.6
SVE-4	Eades Drig/DBS	10/04/95	3553.03 (c)	-989.20	-1359.10	55.0	na	Flush Mount	2	30-55	27.9
SVE-5	Eades Drig/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 Drig/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 Drig/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 Drig/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 Drig/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:

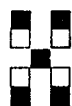
- (a) Driller/Consultant
- (b) Survey by John West Engineering on 11/94
- (c) Survey by John West Engineering on 2/96
- (d) Survey by Cypress Engineering on 8/99
- (e) SVE-10 is an overdrill of SVE-4
- na - Information not available

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

Well ID	Analytical Requirements		Benzene (ppb) Latest Result	Comments
	1st Semiannual Event	2nd Semiannual Event		
MW-9	BTEX	BTEX	2	
MW-10	BTEX	BTEX	4590	previously contained PSH
MW-11	BTEX	BTEX	<1	clean downgradient well
MW-12	BTEX	BTEX	<1	clean downgradient well
MW-13	BTEX	BTEX	<1	clean downgradient well
SVE-13	BTEX	BTEX	773	
SVE-14	BTEX	BTEX	369	

Notes:

- 1) na - not available
- 2) BTEX - BTEX Compounds by EPA Method 8021B
- 3) "Comments" are provided for wells that will not be sampled during one or more events



**Hall Environmental
Analysis Laboratory**

August 28, 2000

Hall Environmental Analysis Laboratory
4901 Hawkins NE, Ste. A
Albuquerque, NM 87109

Cypress Engineering
10235 W Little York, Ste. 256
Houston, TX 77040

Dear Mr. Robinson:

Enclosed are the results for the analyses that were requested. These were analyzed according to EPA procedures or equivalent.

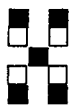
Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,


Nancy McDuffie
Assistant Laboratory Manager

Project: 0008123/SVE Sampling Air WT-1 Station



Hall Environmental Analysis Laboratory

Client: Cypress Engineering
Project: SVE Sampling Air WT-1 Station
Project Manager: George C. Robinson
Project Number: TWP WT-1 Station

Date Collected: 8/21/00
Date Received: 8/22/00
Sample Matrix: Air
Extraction Date: NA

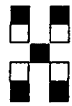
EPA Method - 8015B Modified GRO

Units: ug/L

Client ID: SVE Total Air Sample
HEAL#: 0008123-1
Analysis Date: 8/23/00

Compound	MRL	Result
Gasoline	5.0	3,900
Range Organics		
Hydrocarbon		
Ranges %	-	
<C5	-	0.0
C5-C6	-	2.9
C6-C7	-	12.2
C7-C8	-	28.7
C8-C9	-	30.0
C9-C10	-	15.4
C10-C11	-	7.9
C11-C12	-	2.4
C12-C14	-	0.5
C14+	-	0.0
Dilution		50
BFB %		**

**Surrogate not recoverable due to matrix interference.



Hall Environmental Analysis Laboratory

Client: Cypress Engineering
Project: SVE Sampling Air WT-1 Station
Project Manager: George C. Robinson
Project Number: TWP WT-1 Station

Date Collected: NA
Date Received: NA
Sample Matrix: Aqueous
Extraction Date: NA

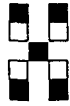
EPA Method - 8015B Modified GRO

HEAL ID	Client ID	Dilution	Gasoline Range (mg/L)	% BFB	Analysis Date
Reag. Blk.	-	1	ND	106	8/23/00

MRL	0.05
-----	------

QA/QC:

<u>Sample ID:</u>	<u>Sample Amt.</u>	<u>Spike</u>	<u>Rec.</u>	<u>%</u>	<u>Dup.</u>	<u>%</u>	<u>RPD</u>
Blank Spike 8/23	<0.05	0.50	0.50	100	0.47	94	6



**Hall Environmental
Analysis Laboratory**

July 5, 2000

Hall Environmental Analysis Laboratory
4901 Hawkins NE, Ste. A
Albuquerque, NM 87109

Cypress Engineering
10235 W Little York, Ste. 256
Houston, TX 77040

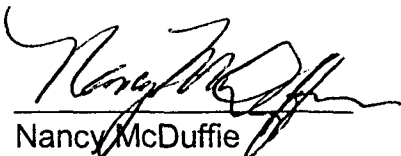
Dear Mr. Robinson:

Enclosed are the results for the analyses that were requested. These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

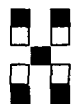
Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Nancy McDuffie
Assistant Laboratory Manager

Project: 0006100/TWP WT-1



Hall Environmental Analysis Laboratory

Client: Cypress Engineering
Project: TWP WT-1
Project Manager: George Robinson
Project Number: -

Date Collected: 6/15/00
Date Received: 6/19/00
Sample Matrix: Air
Extraction Date: NA

EPA Method - 8015B Modified GRO

Units: ug/L

Client ID:	WT-1-T-1	WT-1-T-2
HEAL#:	0006100-1	0006100-2
Analysis Date:	6/19/00	6/19/00

Compound	MRL	Result	Result
Gasoline	5.0	3,000	3,700
Range Organics			
Hydrocarbon			
Ranges %	-		
<C5	-	0.1	0.1
C5-C6	-	3.9	3.3
C6-C7	-	16.6	15.4
C7-C8	-	37.7	32.6
C8-C9	-	29.8	29.8
C9-C10	-	8.6	10.9
C10-C11	-	2.1	5.8
C-11-C12	-	0.6	1.6
C12-C14	-	0.1	0.4
C14+	-	0.5	0.1
Dilution		20	50
BFB %		**	**

**Surrogate not recoverable due to matrix interference.



Hall Environmental Analysis Laboratory

Client: Cypress Engineering
Project: TWP WT-1
Project Manager: George Robinson
Project Number: -

Date Collected: NA
Date Received: NA
Sample Matrix: Aqueous
Extraction Date: NA

EPA Method - 8015B Modified GRO

HEAL ID	Client ID	Dilution	Gasoline Range (mg/L)	% BFB	Analysis Date
Reag. Blk.	-	1	ND	104	6/19/00

MRL	0.05
-----	------

QA/QC:

<u>Sample ID:</u>	<u>Sample Amt.</u>	<u>Spike</u>	<u>Rec.</u>	<u>%</u>	<u>Dup.</u>	<u>%</u>	<u>RPD</u>
Blank Spike 6/19	<0.05	0.50	0.42	84	0.46	92	9

CHAIN-OF-CUSTODY RECORD

Client: CYPRESS ENGINEERING

Project Name

TWP WT-1

Address: 10235 WEST LIME YORK, STE 250

HOUSTON, TX 77040

Project #:

Project Manager

GEORGE ROBINSON

Phone # (713) 646-7252

Fax # (713) 646-7867

Sampler: X Jim Bob Smith

Samples Col'd: ☐ Yes ☒ No

Date Time Matrix Sample ID No

5/15/00 1:49 P AIR WT-1-T-1

5/15/00 1:49 P 11 WT-1-T-2

Number Volume

Preservative

H₂O₂ HCl

HEAL No.

9006100-1

-2

Date: 5/15/00 Time: 1:49 P Relinquished By: (Signature) Jim Bob Smith

Date: 5/15/00 Time: 1:49 P Relinquished By: (Signature)

Received By: (Signature) Jeff Buckle

Received By: (Signature)

Remarks:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
505.345.3975
Fax 505.345.4107

ANALYSIS REQUEST

BTEX - MTBE (602/8020)
BTEX + MTBE - TPH (Gasoline Only)
TPH Method 8015 MCO (Gas Diesel)

TPH (Method 418.1)

80:0/8020 Volatiles

EDB (Method 504)

EDC (Method 8010)

8310 (PNA or PAH)

PCBA 8 Metals

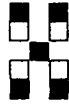
Cations (Na, K, Ca, Mg)

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8080 Pesticides / PCBs

8260 (VOA)

8270 (Semi-VOA)



**Hall Environmental
Analysis Laboratory**

June 6, 2000

Hall Environmental Analysis Laboratory
4901 Hawkins NE, Ste. A
Albuquerque, NM 87109

Cypress Engineering
10235 W Little York, Ste. 256
Houston, TX 77040

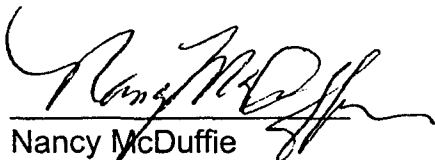
Dear Mr. Robinson:

Enclosed are the results for the analyses that were requested. These were analyzed according to EPA procedures or equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

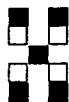
Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Nancy McDuffie
Assistant Laboratory Manager

Project: 0005119/TWP WT-1



Hall Environmental Analysis Laboratory

Client: Cypress Engineering
Project: TWP WT-1
Project Manager: George Robinson
Project Number: -

Date Collected: 5/22/00
Date Received: 5/24/00
Sample Matrix: Air
Extraction Date: NA

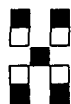
EPA Method - 8015B Modified GRO

Units: ug/L

Client ID:	WT-1-T-1	WT-1-T-2
HEAL#:	0005119-1	0005119-2
Analysis Date:	5/24/00	5/24/00

Compound	MRL	Result	Result
Gasoline	5.0	3,700	6,300
Range Organics			
Hydrocarbon			
Ranges %	-		
<C5	-	0.0	0.0
C5-C6	-	3.8	3.2
C6-C7	-	13.4	12.1
C7-C8	-	35.0	34.1
C8-C9	-	28.7	31.5
C9-C10	-	12.4	11.4
C10-C11	-	4.7	5.4
C11-C12	-	0.8	1.6
C12-C14	-	0.6	0.6
C14+	-	0.6	0.1
Dilution		50	50
BFB %		**	**

**Surrogate not recoverable due to matrix interference.



Hall Environmental Analysis Laboratory

Client: Cypress Engineering
Project: TWP WT-1
Project Manager: George Robinson
Project Number: -

Date Collected: NA
Date Received: NA
Sample Matrix: Aqueous
Extraction Date: NA

EPA Method - 8015B Modified GRO

HEAL ID	Client ID	Dilution	Gasoline Range (mg/L)	% BFB	Analysis Date
Reag. Blk.	-	1	ND	110	5/24/00

MRL	0.05
-----	------

QA/QC:

<u>Sample ID:</u>	<u>Sample Amt.</u>	<u>Spike</u>	<u>Rec.</u>	<u>%</u>	<u>Dup.</u>	<u>%</u>	<u>RPD</u>
Blank Spike 5/24	<0.05	0.50	0.45	90	0.46	92	2

CHAIN-OF-CUSTODY RECORD

Client: CYPRESS ENGINEERING

Project Name:

TWP WT-1

Address: 10235 WEST LITTLE YORK, STE 256

HOUSTON, TX 77040

Project Manager:

GEORGE ROBINSON

Phone #: (713) 646-7252

Fax #: (713) 646-7867

Samples Cold?:

☐ Yes ☒ No

Number/Volume

Preservative

HgCl₂

HCl

HEAL No.

00057119-1

-2

Sample I.D. No.

WT-1-T-1

WT-1-T-2

Date

5-22-00

Time

10:05A

Matrix

AIR

Time

11

Date: 5-22-00

Time: 10:05A

Relinquished By: (Signature)

George Robinson

Date: 5-22-00

Time: 10:05A

Relinquished By: (Signature)

George Robinson

Received By: (Signature)

5/24/00

Received By: (Signature)

George Robinson

Remarks:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
505.345.3975
Fax 505.345.4107

ANALYSIS REQUEST

BTX + MTBE (602/8020)	
BTX + MTBE + TPH (Gasoline Only)	X
TPH Method 8015 MOD (Gas/Diesel)	X
TPH (Method 418.1)	
8010/8020 Volatiles	
EDB (Method 504)	
EDC (Method 8010)	
8310 (PNA or PAH)	
RCRA 8 Metals	
Cations (Na, K, Ca, Mg)	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8080 Pesticides / PCB's	
8260 (VOA)	
8270 (Semi-VOA)	

See Bulletin or Handbook V or VI



**Hall Environmental
Analysis Laboratory, Inc.**

December 20, 1999

Hall Environmental Analysis Laboratory
4901 Hawkins NE, Suite A
Albuquerque, NM 87109
(505)345-3975

Cypress Engineering
10235 W Little York, Ste. 256
Houston, Texas 77040-3229

Dear Mr. Robinson:

Enclosed are the results for the analyses that were requested. These were analyzed according to EPA procedures or the equivalent.

Detection limits are determined by EPA methodology. No determination of compounds below these levels (denoted by the < sign) has been made.

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

Sincerely,

Nancy McDuffie
Assistant Laboratory Manager

Project: 9912048B/WT-1

Date collected: Unknown	Date received: 12/9/99
Date extracted: NA	Date analyzed: 12/9/99
Client: Cypress Engineering	
Project Name: WT-1	HEAL #: 9912048-3
Project Manager: George Robinson	Sample ID #: WT-1 SVE-3
Matrix: Air	

Test: EPA 8015 Modified

<u>Compound</u>	<u>Amount</u>	<u>Detection Level</u>	<u>Units</u>
Gasoline Range Organics	4,800	5.0	µg/L

BFB (Surrogate) Recovery = ** %
Dilution Factor = 25

Hydrocarbon Ranges

<C5	0.1 %
C5-C6	6.2 %
C6-C7	17.6 %
C7-C8	31.8 %
C8-C9	28.8 %
C9-C10	10.0 %
C10-C11	4.2 %
C11-C12	0.9 %
C12-C14	0.2 %
C14+	0.2 %

**Surrogate not recoverable due to matrix interference.

Date collected: Unknown	Date received: 12/9/99
Date extracted: NA	Date analyzed: 12/9/99
Client: Cypress Engineering	
Project Name: WT-1	HEAL #: 9912048-4
Project Manager: George Robinson	Sample ID #: WT-1 SVE-4
Matrix: Air	

Test: EPA 8015 Modified

<u>Compound</u>	<u>Amount</u>	<u>Detection Level</u>	<u>Units</u>
Gasoline Range Organics	4,900	5.0	µg/L

BFB (Surrogate) Recovery = ** %
Dilution Factor = 25

Hydrocarbon Ranges

<C5	0.1 %
C5-C6	6.2 %
C6-C7	17.5 %
C7-C8	32.3 %
C8-C9	28.6 %
C9-C10	9.7 %
C10-C11	4.2 %
C11-C12	1.1 %
C12-C14	0.3 %
C14+	0.0 %

** Surrogate not recoverable due to matrix interference.

Date collected: NA	Date received: NA
Date extracted: NA	Date analyzed: 12/9/99
Client: Cypress Engineering	
Project Name: WT-1	HEAL #: Reagent Blank
Project Manager: George Robinson	
Matrix: Aqueous	

Test: EPA 8015 Modified

<u>Compound</u>	<u>Amount</u>	<u>Detection Level</u>	<u>Units</u>
Gasoline Range Organics	ND	0.05	mg/L

BFB (Surrogate) Recovery = 104 %
Dilution Factor = 1

Results for QC: Blank Spike / Blank Spike Dup

Date extracted: NA	Date analyzed: 12/9/99
Client: Cypress Engineering	
Project Name: WT-1	HEAL #: BS/BSD 12/9/99
Project Manager: George Robinson	
Matrix: Aqueous	Units: PPM (mg/L)

Test: EPA 8015 Modified

<u>Compound</u>	<u>Sample Result</u>	<u>Amount Added</u>	<u>Blank Spike</u>	<u>BS %</u>	<u>BS Dup</u>	<u>BSD %</u>	<u>RPD</u>
Gasoline	<0.05	0.50	0.47	94	0.45	90	4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Cypress ENS	Project Name: Rail 12 / 13 / 14
---------------------	---------------------------------

Address:	10235 W L H L York St Houston, TX 770403229	Project #:
----------	--	------------

Project Manager: George Robinson

Phone #:	713-856-7980	2-25	Sampler:
----------	--------------	------	----------

fax #:	713 856-7981	Samples Cold?:	☐ Yes	☒ No
--------	--------------	----------------	------------------------------	--

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative H ₂ O ₂ HCl			HEAL No.
	12/7 1999	A✓	Bell Lake SVE-1	1				P1208-1
		V	Bell Lake SVE-2	1				-2
		(V)	WT-1 SVE-3	1				-3
		(V)	WT-1 SVE-4	1				-4
			↓					
			Total Flow = SVE-3					
			DUP Total Flow = SVE-4					

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

ANALYSIS REQUEST

[illegible]

Remarks: Paid by FED Ex
Make 2 different reports



L14035

November 29, 1999

George Robinson
Enron Gas Pipeline Group
333 Clay St., Room 3142
P.O. Box 1188
Houston, TX 77002

Phone: (713) 646-7327

FAX: (713) 646-7867

Re: Laboratory Sample Analysis

Project: Transwestern Pipeline Co. WT-1 Dehy

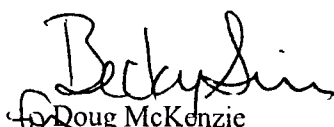
Project Manager: George Robinson

Dear George Robinson:

On Saturday, November 20, 1999, OAL received four (4) water samples for analysis. The samples were analyzed utilizing EPA, ASTM, or equivalent methodology.

Should you have any questions concerning the results in this report, please contact us at (503) 590-5300. Refer to OAL login number L14035.

Sincerely,


Doug McKenzie
Client Manager

OREGON ANALYTICAL LABORATORY

A Division of Portland General Electric
14855 S.W. Scholls Ferry Road, Beaverton, OR 97007
Phone 503-590-5300 • Fax 503-590-1404
www.oalb.com • Toll-Free 1-800-644-0967

Sample Summary

<u>Sample ID</u>	<u>Lab #</u>	<u>Description</u>	<u>Sampled</u>	<u>Received</u>
SVE-14	L14035-1	Water	11/18/1999 13:50	11/20/1999 09:05
MW-10	L14035-2	Water	11/18/1999 14:45	11/20/1999 09:05
AST	L14035-3	Water	11/18/1999 15:40	11/20/1999 09:05
TRIP BLANK	L14035-4	Water	11/18/1999	11/20/1999 09:05

Definition of Terms

- D** Reported value is based on a dilution.
MI Matrix interference.
ND Analytical result was below the reporting limit.

Laboratory Certifications*

<u>Agency</u>	<u>Number</u>
Florida Department of Health	ID #E87569
Oregon Health Division	State Lab #OR020
Washington Department of Ecology	Lab Accreditation #C136
Washington Department of Health	Washington Code #136

* Current Scopes of Accreditation are available upon request.

Analysts

<u>Initials</u>	<u>Analyst</u>	<u>Title</u>
RJ	Rick Jordan	Chemist
WB	Wayne Boyle	Chemist

Method Summary

<u>Analysis</u>	<u>Method</u>
BTEX	EPA 8021
Semi-Volatile Petroleum Products	NWTPH-DX
Volatile Petroleum Products	NWTPH-GX

OREGON ANALYTICAL LABORATORY

A Division of Portland General Electric
14855 S.W. Scholls Ferry Road, Beaverton, OR 97007
Phone 503-590-5300 • Fax 503-590-1404
www.oal-lab.com • Toll Free 1-800-667-0967



L14035

Client: **Enron Gas Pipeline Group**
 Contact: **George Robinson**

Project: **Transwestern Pipeline Co.**
WT-1 Dehy

BTEX by EPA 8021

Sample ID	Matrix	Result	Reporting Limit	Units (ppb)	Dilution	Comment	Lab Number
CAS	Analyte						

SVE-14		Water		Sampled: 11/18/1999		Analyzed: 11/24/1999 by WB		L14035-1	
71-43-2	Benzene	1,400	50.	µg/L	50.	D			
108-88-3	Toluene	560	100	µg/L	50.	D			
100-41-4	Ethylbenzene	400	100	µg/L	50.	D			
1330-20-7	Total Xylenes	970	200	µg/L	50.	D			
		Surrogate		Recovery		Limit			
		Trifluorotoluene		104. %		50 - 150			
		4-Bromofluorobenzene		109. %		50 - 150			

MW-10		Water		Sampled: 11/18/1999		Analyzed: 11/24/1999 by WB		L14035-2	
71-43-2	Benzene	3,400	50.	µg/L	50.	D			
108-88-3	Toluene	5,600	100	µg/L	50.	D			
100-41-4	Ethylbenzene	280	100	µg/L	50.	D			
1330-20-7	Total Xylenes	3,100	200	µg/L	50.	D			
		Surrogate		Recovery		Limit			
		Trifluorotoluene		83. %		50 - 150			
		4-Bromofluorobenzene		94. %		50 - 150			

AST		Water		Sampled: 11/18/1999		Analyzed: 11/24/1999 by WB		L14035-3	
71-43-2	Benzene	290	5.	µg/L	5.	D			
108-88-3	Toluene	67.	10.	µg/L	5.	D			
100-41-4	Ethylbenzene	48.	10.	µg/L	5.	D			
1330-20-7	Total Xylenes	310	20.	µg/L	5.	D			
		Surrogate		Recovery		Limit			
		Trifluorotoluene		86. %		50 - 150			
		4-Bromofluorobenzene		137. %		50 - 150			

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co.**
WT-1 Dehy

BTEX
by EPA 8021

Sample ID	Matrix	Result	Reporting Limit	Units (ppb)	Dilution	Comment	Lab Number
CAS	Analyte						

TRIP BLANK		Water		Sampled: 11/18/1999			
				Analyzed: 11/24/1999 by WB			
				L14035-4			
71-43-2	Benzene	ND	1.	µg/L			
108-88-3	Toluene	ND	2.	µg/L			
100-41-4	Ethylbenzene	ND	2.	µg/L			
1330-20-7	Total Xylenes	ND	4.	µg/L			
		Surrogate	Recovery		Limit		
		Trifluorotoluene	99. %		50 - 150		
		4-Bromofluorobenzene	111. %		50 - 150		

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co.**
WT-1 Dehy

Semi-Volatile Petroleum Products by NWTPH-DX

Sample ID	Matrix	Result	Reporting Limit	Units (ppm)	Dilution	Comment	Lab Number
CAS	Analyte						

AST		Water	Sampled: 11/18/1999 Extracted: 11/24/1999 Analyzed: 11/27/1999 by RJ					L14035-3
	Diesel Region	11.	1.3	mg/L	5.	1,D		
	Oil Region	ND	2.5	mg/L	5.	D		
	Surrogate			Recovery		Limit		
	2-Fluorobiphenyl			MI		50 - 150		
	O-terphenyl			142. %		50 - 150		
¹ Non-typical diesel range product.								

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co.**
WT-1 Dehy

Volatile Petroleum Products by NWTPH-GX

Sample ID	Matrix	Result	Reporting Limit	Units (ppm)	Dilution	Comment	Lab Number
CAS	Analyte						

AST	Water						Sampled: 11/18/1999 Analyzed: 11/24/1999 by WB	L14035-3
8006-61-9	Gasoline Region	3.0	0.25	mg/L		1		
	Surrogate			Recovery		Limit		
	Trifluorotoluene			76. %		50 - 150		
	4-Bromofluorobenzene			135. %		50 - 150		
¹ Product appears to be gasoline.								

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L14035

Client: *Enron Gas Pipeline Group*
Contact: *George Robinson*

Project: *Transwestern Pipeline Co. WT-1 Dehy*

Batch Q.C.
Method Blank
BTEX/Water (ug/L)

Analyte	Result	Reporting		Date
		Limit	Q	Analyzed
Benzene	ND	1		11/24/99
Toluene	ND	2		
Ethylbenzene	ND	2		
Xylenes	ND	4		
Surrogates		% Recovery		
Trifluorotoluene		94		
Bromofluorobenzene		109		
Comments:				

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy****Batch Q.C.**

LCS

BTEX/Water (ug/L)

Analyte	Result	True Value	% Recovery	Q	Date Analyzed
Benzene	10.2	10.0	102		11/22/99
Toluene	10.2	10.0	102		
Ethylbenzene	10.4	10.0	104		
Xylenes	31.9	30.0	106		
Surrogates	% Recovery				
Trifluorotoluene	102				
Bromofluorobenzene	107				
Comments:	L14035-1 through 3.				

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
LCS
BTEX/Water (ug/L)

					Date
Analyte	Result	True Value	% Recovery	Q	Analyzed
Benzene	10.0	10.0	100		11/24/99
Toluene	10.3	10.0	103		
Ethylbenzene	10.1	10.0	101		
Xylenes	31.4	30.0	105		
Surrogates					
				% Recovery	
Trifluorotoluene				102	
Bromofluorobenzene				108	
Comments: L14035-4.					

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy****Batch Q.C.****MS****BTEX/Water (ug/L)**

Analyte	Sample Result	MS Result	True Value	% Recovery	Q	Date Analyzed
Benzene	ND	10.6	10.0	106		11/22/99
Toluene	ND	10.5	10.0	105		
Ethylbenzene	ND	10.6	10.0	106		
Xylenes	ND	32.5	30.0	108		
Surrogates	% Recovery	% Recovery				
	Sample	MS				
Trifluorotoluene	103	102				
Bromofluorobenzene	117	105				
Comments: L14035-1 through 3.						

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
MS
BTEX/Water (ug/L)

Analyte	Sample	MS	True Value	% Recovery	Q	Date Analyzed
	Result	Result				

Benzene	ND	11.1	10.0	111	11/24/99
Toluene	ND	11.0	10.0	110	
Ethylbenzene	ND	10.6	10.0	106	
Xylenes	ND	32.9	30.0	110	

Surrogates	% Recovery	% Recovery
	Sample	MS
Trifluorotoluene	99	104
Bromofluorobenzene	111	108

Comments: L14035-4.

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
Duplicate
BTEX/Water (ug/L)

Analyte	Duplicate		RPD	Reporting	Date	
	Result	Result		Limit	Q	Analyzed

Benzene	ND	ND	NA	1		11/23/99
Toluene	ND	ND	NA	2		
Ethylbenzene	ND	ND	NA	2		
Xylenes	ND	ND	NA	4		

Surrogates	% Recovery	% Recovery
	Sample	Duplicate
Trifluorotoluene	102	104
Bromofluorobenzene	116	116

Comments: L14035-1 through 3.

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
Duplicate
BTEX/Water (ug/L)

Analyte	Result	Duplicate Result	RPD	Reporting Limit	Q	Date Analyzed
Benzene	ND	ND	NA	1		11/24/99
Toluene	ND	ND	NA	2		
Ethylbenzene	ND	ND	NA	2		
Xylenes	ND	ND	NA	4		
Surrogates	% Recovery	% Recovery				
	Sample	Duplicate				
Trifluorotoluene	99	97				
Bromofluorobenzene	111	113				
Comments: L14035-4.						

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
Method Blank
NWTPH-Dx/Water (mg/L)

Analyte	Result	Reporting		Date
		Limit	Q	Analyzed
NWTPH-Dx				
Diesel range	ND	0.25		11/27/99
Oil range	ND	0.50		
Surrogates	% Recovery			
Fluorobiphenyl	94			
O-terphenyl	123			
Comments:				

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
LCS
NWTPH-Dx/Water (mg/L)

Analyte	Result	True Value	% Recovery	Q	Date Analyzed
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NWTPH-Dx	1.39	1.27	109		11/23/99
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Surrogates	% Recovery
Fluorobiphenyl	130
O-terphenyl	132

Comments:

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
Method Blank
NWTPH-Gx/Water (mg/L)

Analyte	Result	Reporting		Date
		Limit	Q	Analyzed

NWTPH-Gx	ND	0.25		11/24/99
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Surrogates	% Recovery
Trifluorotoluene	83
Bromofluorobenzene	105

Comments:

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy****Batch Q.C.****LCS****NWTPH-Gx/Water (mg/L)**

Analyte	Result	True Value	% Recovery	Q	Date Analyzed
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NWTPH-Gx	1.14	1.00	114		11/24/99
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Surrogates	% Recovery
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Trifluorotoluene	92
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Bromofluorobenzene	101
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Comments:

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
MS
NWTPH-Gx/Water (mg/L)

Analyte	Sample	MS	True Value	% Recovery	Q	Date
	Result	Result				Analyzed

NWTPH-Gx	3.02	4.12	1.00	110		11/24/99
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Surrogates	% Recovery	% Recovery
	Sample	MS
Trifluorotoluene	76	82
Bromofluorobenzene	135	129

Comments:

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L14035

Client: **Enron Gas Pipeline Group**
Contact: **George Robinson**

Project: **Transwestern Pipeline Co. WT-1 Dehy**

Batch Q.C.
Duplicate
NWTPH-Gx/Water (mg/L)

Analyte	Duplicate		RPD	Reporting	Q	Date
	Result	Result		Limit		Analyzed

NWTPH-Gx	0.80	0.72	11	0.25		11/19/99
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Surrogates	% Recovery	% Recovery
	Sample	Duplicate
Trifluorotoluene	76	80
Bromofluorobenzene	100	103

Comments:

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NOTE: If quote number is not referenced, standard pricing will be applied.

Provide Fax Results ☒ Yes ☐ No

Remarks

Provide Fax Results ☒ Yes ☐ No

☐ Courier ☐ UPS ☒ FedEx ☐ Other
 Received @ 0 °C
 Appropriate Containers Yes ☐ No
12 4oz./Boz. Jars
 VOA Vials
 Plastic Bottles
1 Glass Bottles
 Other