

GW - 114

7/01

WORK PLANS

IRON TREATMENT

***WORK PLAN
ZERO-VALENT IRON TREATMENT
PILOT STUDY
ARTESIA, NEW MEXICO***

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Prepared For:

Schlumberger Oilfield Services
200 Gillingham Lane, MD 7
Sugar Land, TX 77478

Prepared By:



A DIVISION OF WESTERN WATER CONSULTANTS, INC.
Civil Environmental Mining Water Resources

611 Skyline Road
Laramie, Wyoming 82070

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1.0 INTRODUCTION

1.0 INTRODUCTION

Schlumberger Oilfield Services (Dowell) has been conducting remedial activities and monitoring of the facility in Artesia, New Mexico since 1988. Actions to remediate source areas at the site have included:

- Removal of underground storage tanks and impacted soils at the fuel island and wash bay.
- Installation and operation of SVE systems at the wash bay and maintenance shop.
- Demolition of the acid facility and warehouse along with excavation of impacted soils.

Dowell has also demonstrated that ground water conditions are conducive to the biodegradation of chlorocarbons and anaerobic degradation of residual hydrocarbons. Source removal and natural attenuation processes have succeeded in reducing the concentrations of both chlorocarbons and hydrocarbons in the ground water near the source areas. These results are presented in the "Annual Report, Schlumberger Oilfield Services, Artesia, New Mexico" dated January 13, 2000.

With the source areas removed and a continuation of natural attenuation processes, ground water at the site is being effectively remediated. However, to reduce the possibility of very low levels of these compounds from leaving the Dowell property, a pilot study for the injection of zero-valent iron (ZVI) near the property boundary is being proposed. The details of the ZVI pilot study are presented in this work plan.

2.0 EXISTING CONDITIONS

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2.1 Geology

Site investigations have been carried out on behalf of Dowell by Western Water Consultants, Inc. (WWC). Drilling at the site has reached a maximum depth of 68 feet below ground surface. All sediments encountered are Quaternary alluvial valley fill included in a unit locally referred to as the carbonate gravel unit which comprises a portion of the "shallow aquifer". An underlying quartzose unit has not been encountered. The sediments beneath the facility consist of red clay, silty clay, and clay interbedded with thin (2-4 inch) white or pinkish-cream carbonate or caliche layers. Zones where carbonate/caliche layers are common may be identified from drill cores, but individual carbonate/caliche layers are difficult to trace laterally between even closely-spaced groundwater monitoring wells.

The water-bearing zones in this interval are the carbonate/caliche layers in which the permeability apparently has been enhanced by solution of carbonate minerals. Below the water table, many, but not all, of the carbonate/caliche layers are saturated, whereas the clays and silts appear only damp to moist. Zones of unsaturated carbonate/caliche below the water table are present irregularly. Carbonate/caliche zones above and below these dry zones are saturated.

The groundwater flow direction has been consistently to the northeast during the 10 years that monitoring has been conducted at the facility. A potentiometric map prepared from water-level data obtained in October, 2000, indicates that groundwater flow is toward the northeast (Figure 1). Water level data are presented in Table 1.

2.2 Constituent Status

The concentration and extent of dissolved-phase BTEX in groundwater has declined since 1990 (Figure 2). In October, 2000 BTEX constituents measured in wells on the facility ranged from a maximum of 3.302 mg/l in MW-3 to non-detectable levels in most other wells.

The concentration and extent of dissolved-phase chlorocarbons in groundwater has remained stable or declined since 1990 (Figure 3). Wells 18, 19, and 22 have shown slight increases since they were installed. Concentration range from 0.506 mg/l in Well 7 to nondetect in the perimeter wells. While the concentration of total chlorocarbons has remained stable, the

composition of the total mixture of constituents has changed through time indicating that biodegradation is occurring.

3.0 SYSTEM DESIGN

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3.1 Purpose

The chlorocarbons and hydrocarbons in the ground water are being degraded biologically as demonstrated in previous report. This is a well suited remediation option for the site. While these processes are occurring, Dowell wants to reduce the possibility of these constituents leaving the property by advection or dispersion. Since of the constituents of concern are chlorinated hydrocarbons, the use of ZVI is being investigated to determine its effectiveness at this site.

3.2 System Concept

The initial reference to the use of metallic iron powder for the remediation was related to halogenated pesticides (Sweeny and Fischer, 1972). Sweeny published two additional articles on the reductive treatment of waste waters in 1981 (Sweeny, 1981 a,b). Although these articles indicated promising results, there is little additional literature available on the use of iron powder in the reduction of chlorinated hydrocarbons until 1987 (Vogel, et. al, 1987) followed by a series of articles published in Japan (Senzaki and Kamagai 1988 and 1989; Senzaki, 1991).

Gillham and O'Hannesin experimented with using a variety of metals including iron, zinc, aluminum, brass, copper, and stainless steel achieving the best results on ground water contaminated with chlorinated hydrocarbons using iron and zinc. As a result of this work, they proposed using metals for the in-situ remediation of ground water contaminated with chlorinated hydrocarbons. Research on the effective use of zero-valent iron (ZVI) to reduce chlorinated hydrocarbons has continued (Gillham and O'Hannesin, 1993 and 1994; Clausen, et. al, 1995).

Gillham and O'Hannesin's research indicated the degradation process of the reactive material is abiotic, with a first order reduction of the chlorinated hydrocarbon. The products of reaction are chloride (Cl^-), iron (Fe^{2+}), and non-chlorinated or less chlorinated hydrocarbons. In a nearly simultaneous reaction, iron is oxidized through the reduction of water with products of Fe^{2+} , H^+ , and OH^- . Hydrogen is also useful in reductive dechlorination, so a synergistic process may be occurring.

To determine the effectiveness of ZVI at this site, two test plots are proposed. First, ZVI will be injected upgradient of MW-22 in an area of higher concentrations. The effect of ZVI in

reducing these concentrations can then be monitored. Second, ZVI will be injected in an area of lower concentrations just upgradient of MW-26. This will allow for an evaluation of ZVI in reducing extremely low concentrations near the property boundary.

3.3 ZVI Design

To assess the efficiency and cost effectiveness of source area injection of ZVI in reducing chlorinated compounds in groundwater at the site, ZVI will be injected into an approximate 60 foot by 60 foot area in the vicinity of monitoring well MW-22 using direct push technology (DPT) drilling rig and a high pressure BioCl amendment pumping system. ZVI will be placed between 12 and 35 feet below ground surface (bgs) through DPT boreholes spaced within a grid approximately 15 feet apart. ZVI will be loaded at a rate of about 260 pounds per vertical foot at each injection location.

Prior to beginning injection of ZVI, a one-inch ID groundwater-monitoring well will be installed upgradient of the injection grid. This well and MW-22 will provide a means of monitoring the effects of the ZVI on groundwater contaminants.

The efficiency and cost effectiveness of utilizing injection technology and Zero-Valent Iron (ZVI) treat lower concentrations of dissolved phase chlorocarbon contaminants in groundwater will be evaluated along the eastern boundary of the Dowell property. ZVI will be injected into an approximate 60 foot by 60 foot area in the vicinity of monitoring well MW-26 using DPT drilling rig and a high pressure BioCl amendment pumping system (BAP). ZVI will be placed between 12 and 35 feet below ground surface (bgs) through 25 DPT boreholes spaced within a grid approximately 15 feet apart. ZVI will be loaded at a rate of about 330 pounds per vertical foot at each injection location.

Prior to beginning injection of ZVI, a one-inch ID groundwater-monitoring well will be installed upgradient of the injection grid. This well and MW-26 will provide a means of monitoring the effects of the ZVI on ground water contaminants. Fifteen foot, 0.010 inch slotted screens will be set between 10 and 25 feet bgs.

3.4 Water Quality Monitoring

Baseline sampling for geochemical and hydrological parameters will be conducted prior to injection of the ZVI to provide information on ambient conditions and contaminant concentrations before the introduction of the remedial amendment. Well casing elevations will be surveyed and static water levels measured. After purging and development of the well is completed, groundwater samples will be collected and analyzed. The monitoring program will employ low flow groundwater sampling techniques and include measurement of the following field/chemical parameters.

- VOCs, EPA 8260
- Field parameters: dissolved oxygen (DO), Oxidation-Reduction Potential (ORP), pH, temperature, and specific conductance.
- Inorganic parameters: total and dissolved iron, total and dissolved manganese, magnesium, nitrate, sulfate, total calcium carbonate and chloride.

4.0 OPERATION AND MONITORING

4.0 OPERATION AND MONITORING

4.1 Monitoring

Groundwater samples should be collected and analyzed on a monthly for three months to assess biodegradation and geochemical trends. The monitoring program will employ low flow ground water sampling techniques and include measurement of the following field/chemical parameters:

- All relevant contaminants (VOCs),
- Field parameters: dissolved oxygen (DO), Oxidation-Reduction Potential (ORP), pH, temperature, alkalinity, specific conductance and total dissolved solids;

Wells MW-22, MW-26 and the two new temporary wells will be monitored to evaluate the effectiveness of the ZVI.

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TABLES

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
SCHLUMBERGER OILFIELD SERVICES FACILITY, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-1	01/23/91	30.00	Protective Casing	100.56	17.41	83.15	
	09/13/91				16.04	84.52	1.37
	11/22/91				14.50	86.06	1.54
	03/16/93				13.72	86.84	0.78
	01/09/94				14.62	85.94	-0.90
	04/19/94				14.48	86.08	0.14
	07/20/94				14.38	86.18	0.10
	10/24/94				14.73	85.83	-0.35
	01/24/95				14.20	86.36	0.53
	04/02/95				14.37	86.19	-0.17
	07/31/95				14.76	85.80	-0.39
	10/16/95				14.64	85.92	0.12
	01/10/96				14.59	85.97	0.05
	04/09/96				14.77	85.79	-0.18
	07/20/96				15.84	84.72	-1.07
	10/21/96				14.07	86.49	1.77
	01/21/97				13.24	87.32	0.83
	04/08/97				12.97	87.59	0.27
	07/29/97				13.87	86.69	-0.90
	10/16/97				12.26	88.30	1.61
	02/09/99				14.34	86.22	-2.08
	04/21/99				13.91	86.65	0.43
	07/13/99				11.70	88.86	2.21
	10/19/99				13.22	87.34	-1.52
MW-2	01/23/91	30.00	Protective Casing	99.56	16.95	82.61	
	09/13/91				15.01	84.55	1.94
	11/22/91				13.76	85.80	1.25
	03/16/93				13.16	86.40	0.60
	01/09/94				13.91	85.65	-0.75
	04/19/94				13.80	85.76	0.11
	07/20/94				13.65	85.91	0.15
	10/24/94				13.88	85.68	-0.23
	01/24/95				13.41	86.15	0.47
	04/02/95				13.67	85.89	-0.26
	07/31/95				13.81	85.75	-0.14
	10/16/95				13.78	85.78	0.03
	01/10/96				13.80	85.76	-0.02
	04/09/96				13.98	85.58	-0.18
	07/20/96				14.92	84.64	-0.94
	10/21/96				13.15	86.41	1.77
	01/21/97				12.41	87.15	0.74
	04/08/97				12.21	87.35	0.20
	07/29/97				13.15	86.41	-0.94
	10/16/97				11.63	87.93	1.52
	01/06/98				10.92	88.64	0.71
	04/14/98				11.02	88.54	-0.10
	07/17/98				13.03	86.53	-2.01
	10/27/98				13.61	85.95	-0.58
	02/09/99				13.69	85.87	-0.08
	04/21/99				13.24	86.32	0.45
	07/13/99				11.05	88.51	2.19
	10/20/99				12.59	86.97	-1.54
MW-3	01/23/91	30.00	Protective Casing	98.33	17.28	81.05	
	09/13/91				14.66	83.67	2.62
	11/22/91				13.63	84.70	1.03
	03/16/93				12.89	85.44	0.74
	01/09/94				13.66	84.67	-0.77
	04/19/94				NM	NM	NM
	07/20/94				13.18	85.15	na
	10/24/94				13.27	85.06	-0.09
	01/24/95				13.23	85.10	0.04
	04/02/95				13.60	84.73	-0.37
	07/31/95				13.34	84.99	0.26

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WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-3 Cont.	10/16/95				13.38	84.95	-0.04
	01/10/96				13.85	84.48	-0.47
	04/09/96				13.91	84.42	-0.06
	07/20/96				14.55	83.78	-0.64
	10/21/96				12.90	85.43	1.65
	01/21/97				12.42	85.91	0.48
	04/08/97				12.43	85.90	-0.01
	07/29/97				13.18	85.15	-0.75
	10/16/97				11.83	86.50	1.35
	01/06/98				11.45	86.88	0.38
	04/14/98				11.44	86.89	0.01
	07/17/98				12.81	85.52	-1.37
	10/27/98				12.60	85.73	0.21
	02/09/99				13.44	84.89	-0.84
	04/21/99				12.75	85.58	0.69
	07/13/99				10.57	87.76	2.18
	10/20/99				12.15	86.18	-1.58
MW-4	01/23/91	50.00	Protective Casing	103.18	20.17	83.01	
	09/13/91				18.54	84.64	1.63
	11/22/91				17.15	86.03	1.39
	03/16/93				16.49	86.69	0.66
	01/09/94				17.28	85.90	-0.79
	04/19/94				17.15	86.03	0.13
	07/20/94				16.99	86.19	0.16
	10/24/94				17.25	85.93	-0.26
	01/24/95				16.78	86.40	0.47
	04/02/95				16.98	86.20	-0.20
	07/31/95				17.26	85.92	-0.28
	10/16/95				17.01	86.17	0.25
	01/10/96				16.95	86.23	0.06
	04/09/96				17.15	86.03	-0.20
	07/20/96				18.08	85.10	-0.93
	10/21/96				16.28	86.90	1.80
	01/21/97				15.37	87.81	0.91
	04/08/97				15.14	88.04	0.23
	07/29/97				16.05	87.13	-0.91
	10/16/97				14.44	88.74	1.61
	01/06/98				13.59	89.59	0.85
	04/14/98				13.91	89.27	-0.32
	07/17/98				16.40	86.78	-2.49
	10/27/98				17.05	86.13	-0.65
	02/09/99				17.08	86.10	-0.03
	04/21/99				16.67	86.51	0.41
	07/13/99				14.49	88.69	2.18
	10/20/99				15.98	87.20	-1.49
MW-5	01/23/91	30.00	Protective Casing	99.87	17.20	82.67	
	09/13/91				15.52	84.35	1.68
	11/22/91				14.19	85.68	1.33
	03/16/93				13.47	86.40	0.72
	01/09/94				14.31	85.56	-0.84
	04/19/94				14.17	85.70	0.14
	07/20/94				13.97	85.90	0.20
	10/24/94				14.21	85.66	-0.24
	01/24/95				13.78	86.09	0.43
	04/02/95				14.05	85.82	-0.27
	07/31/95				14.17	85.70	-0.12
	10/16/95				14.07	85.80	0.10
	01/10/96				14.11	85.76	-0.04
	04/09/96				14.31	85.56	-0.20
	07/20/96				15.20	84.67	-0.89
	10/21/96				13.44	86.43	1.76
	01/21/97				12.69	87.18	0.75
	04/08/97				12.52	87.35	0.17
	07/29/97				13.37	86.50	-0.85
	10/16/97				11.82	88.05	1.55

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WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-5 Cont.	01/06/98				11.09	88.78	0.73
	04/14/98				12.30	87.57	-1.21
	07/17/98				13.32	86.55	-1.02
	10/27/98				13.93	85.94	-0.61
	02/09/99				14.04	85.83	-0.11
	04/21/99				13.54	86.33	0.50
	07/13/99				11.37	88.50	2.17
	10/20/99				12.89	86.98	-1.52
MW-6	01/23/91	35.00	Protective Casing	100.84	19.59	81.25	
	09/13/91				17.43	83.41	2.16
	11/21/91				16.30	84.54	1.13
	03/16/93				15.57	85.27	0.73
	01/09/94				16.42	84.42	-0.85
	04/19/94				16.29	84.55	0.13
	07/19/94				15.79	85.05	0.50
	10/24/94				15.83	85.01	-0.04
	01/24/95				15.94	84.90	-0.11
	04/02/95				16.38	84.46	-0.44
	07/31/95				15.88	84.96	0.50
	10/16/95				16.01	84.83	-0.13
	01/10/96				16.52	84.32	-0.51
	04/09/96				16.70	84.14	-0.18
	07/21/96				17.26	83.58	-0.56
	10/21/96				15.62	85.22	1.64
	01/21/97				15.21	85.63	0.41
	04/08/97				15.30	85.54	-0.09
	07/29/97				16.01	84.83	-0.71
	10/16/97				15.01	85.83	1.00
	01/06/98				14.69	86.15	0.32
	04/14/98				14.45	86.39	0.24
	07/17/98				15.62	85.22	-1.17
	10/27/98				15.77	85.07	-0.15
	02/09/99				16.34	84.50	-0.57
	04/21/99				15.57	85.27	0.77
	07/13/99				13.66	87.18	1.91
	10/19/99				15.04	85.80	-1.38
MW-7	01/23/91	35.00	Protective Casing	100.23	19.01	81.22	
	09/13/91				17.43	82.80	1.58
	11/21/91				16.00	84.23	1.43
	03/16/93				14.91	85.32	1.09
	01/09/94				15.99	84.24	-1.08
	04/19/94				15.83	84.40	0.16
	07/19/94				15.24	84.99	0.59
	10/24/94				15.32	84.91	-0.08
	01/24/95				15.54	84.69	-0.22
	04/02/95				16.00	84.23	-0.46
	07/31/95				15.57	84.66	0.43
	10/16/95				15.61	84.62	-0.04
	01/10/96				16.13	84.10	-0.52
	04/09/96				16.30	83.93	-0.17
	07/21/96				16.81	83.42	-0.51
	10/21/96				15.15	85.08	1.66
	01/21/97				14.81	85.42	0.34
	04/08/97				14.91	85.32	-0.10
	07/29/97				15.48	84.75	-0.57
	10/16/97				14.52	85.71	0.96
	01/06/98				13.27	86.96	1.25
	04/14/98				14.02	86.21	-0.75
	07/17/98				15.10	85.13	-1.08
	10/27/98				15.21	85.02	-0.11
	02/09/99				15.86	84.37	-0.65
	04/21/99				14.96	85.27	0.90
	07/13/99				13.03	87.20	1.93
	10/19/99				14.43	85.80	-1.40

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WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-8	01/23/91	35.00	Protective Casing	101.47	20.16	81.31	
	09/13/91				18.80	82.67	1.36
	11/21/91				17.29	84.18	1.51
	03/16/93				16.03	85.44	1.26
	01/09/94				17.23	84.24	-1.20
	04/19/94				17.05	84.42	0.18
	07/19/94				16.50	84.97	0.55
	10/24/94				16.56	84.91	-0.06
	01/24/95				16.79	84.68	-0.23
	04/02/95				17.24	84.23	-0.45
	07/31/95				16.94	84.53	0.30
	10/16/95				16.88	84.59	0.06
	01/10/96				17.38	84.09	-0.50
	04/09/96				17.54	83.93	-0.16
	07/21/96				18.10	83.37	-0.56
	10/21/96				16.40	85.07	1.70
	11/22/96				16.42	85.05	-0.02
	01/21/97				16.05	85.42	0.37
	04/08/97				16.11	85.36	-0.06
	07/29/97				16.69	84.78	-0.58
	10/16/97				15.69	85.78	1.00
	01/06/98				15.38	86.09	0.31
	04/14/98				15.15	86.32	0.23
	07/17/98				16.29	85.18	-1.14
	10/27/98				16.39	85.08	-0.10
	02/09/99				17.02	84.45	-0.63
	04/21/99				16.08	85.39	0.94
	07/13/99				14.13	87.34	1.95
	10/19/99				15.56	85.91	-1.43
MW-9	01/26/91	30.00	Protective Casing	102.18	20.08	82.10	
	09/13/91				18.93	83.25	1.15
	11/21/91				17.35	84.83	1.58
	03/16/93				16.19	85.99	1.16
	01/09/94				17.31	84.87	-1.12
	04/19/94				17.33	84.85	-0.02
	07/19/94				16.85	85.33	0.48
	10/24/94				17.05	85.13	-0.20
	01/24/95				16.92	85.26	0.13
	04/02/95				17.23	84.95	-0.31
	07/31/95				17.30	84.88	-0.07
	10/16/95				17.16	85.02	0.14
	01/10/96				17.39	84.79	-0.23
	04/09/96				17.58	84.60	-0.19
	07/21/96				18.38	83.80	-0.80
	10/21/96				16.65	85.53	1.73
	01/21/97				16.12	86.06	0.53
	04/08/97				16.04	86.14	0.08
	07/29/97				16.67	85.51	-0.63
	10/16/97				15.29	86.89	1.38
	01/06/98				14.78	87.40	0.51
	04/14/98				14.89	87.29	-0.11
	07/17/98				16.30	85.88	-1.41
	10/27/98				16.62	85.56	-0.32
	02/09/99				17.14	85.04	-0.52
	04/21/99				16.38	85.80	0.76
	07/13/99				14.27	87.91	2.11
	10/19/99				15.75	86.43	-1.48
MW-10	01/26/91	30.00	Protective Casing	101.34	19.68	81.66	
	09/13/91				18.56	82.78	1.12
	11/21/91				16.96	84.38	1.60
	03/16/93				15.64	85.70	1.32
	01/09/94				16.89	84.45	-1.25
	04/19/94				16.73	84.61	0.16
	07/19/94				16.29	85.05	0.44
	10/24/94				16.39	84.95	-0.10

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
SCHLUMBERGER OILFIELD SERVICES FACILITY, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-10 Cont.	01/24/95				16.48	84.86	-0.09
	04/02/95				16.88	84.46	-0.40
	07/31/95				16.82	84.52	0.06
	10/16/95				16.65	84.69	0.17
	01/10/96				17.01	84.33	-0.36
	04/09/96				17.20	84.14	-0.19
	07/21/96				17.85	83.49	-0.65
	10/21/96				16.13	85.21	1.72
	01/21/97				15.73	85.61	0.40
	04/08/97				15.70	85.64	0.03
	07/29/97				16.28	85.06	-0.58
	10/16/97				15.16	86.18	1.12
	01/06/98				14.74	86.60	0.42
	04/14/98				14.65	86.69	0.09
	07/17/98				15.90	85.44	-1.25
	10/27/98				16.04	85.30	-0.14
	02/09/99				16.61	84.73	-0.57
	04/21/99				15.68	85.66	0.93
	07/13/99				13.68	87.66	2.00
	10/19/99				15.15	86.19	-1.47
MW-11	01/26/91	30.00	Protective Casing	100.60	19.27	81.33	
	09/13/91				17.81	82.79	1.46
	11/21/91				16.35	84.25	1.46
	03/16/93				15.20	85.40	1.15
	01/09/94				16.31	84.29	-1.11
	04/19/94				16.17	84.43	0.14
	07/19/94				15.63	84.97	0.54
	10/24/94				15.72	84.88	-0.09
	01/24/95				15.89	84.71	-0.17
	04/02/95				16.33	84.27	-0.44
	07/31/95				16.03	84.57	0.30
	10/16/95				16.00	84.60	0.03
	01/10/96				16.45	84.15	-0.45
	04/09/96				16.62	83.98	-0.17
	07/21/96				17.21	83.39	-0.59
	10/21/96				15.52	85.08	1.69
	01/21/97				15.15	85.45	0.37
	04/08/97				15.19	85.41	-0.04
	07/29/97				15.78	84.82	-0.59
	10/16/97				14.75	85.85	1.03
	01/06/98				14.44	86.16	0.31
	04/14/98				14.22	86.38	0.22
	07/17/98				15.41	85.19	-1.19
	10/27/98				15.50	85.10	-0.09
	02/09/99				16.11	84.49	-0.61
	04/21/99				15.21	85.39	0.90
	07/13/99				13.25	87.35	1.96
	10/19/99				14.68	85.92	-1.43
MW-12	01/26/91	34.00	Protective Casing	100.69	19.24	81.45	
	09/13/91				17.59	83.10	1.65
	11/21/91				16.21	84.48	1.38
	03/16/93				15.22	85.47	0.99
	01/09/94				16.25	84.44	-1.03
	04/19/94				16.13	84.56	0.12
	07/19/94				15.63	85.06	0.50
	10/24/94				15.73	84.96	-0.10
	01/24/95				15.80	84.89	-0.07
	04/02/95				16.23	84.46	-0.43
	07/31/95				15.96	84.73	0.27
	10/16/95				15.93	84.76	0.03
	01/10/96				16.35	84.34	-0.42
	04/09/96				16.52	84.17	-0.17
	07/21/96				17.15	83.54	-0.63
	10/21/96				15.48	85.21	1.67
	01/21/97				15.04	85.65	0.44

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
SCHLUMBERGER OILFIELD SERVICES FACILITY, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-12 Cont.	04/08/97				15.10	85.59	-0.06
	07/29/97				15.73	84.96	-0.63
	10/16/97				14.57	86.12	1.16
	01/06/98				14.22	86.47	0.35
	04/14/98				14.09	86.60	0.13
	07/17/98				15.35	85.34	-1.26
	10/27/98				15.36	85.33	-0.01
	02/09/99				16.00	84.69	-0.64
	04/21/99				15.19	85.50	0.81
	07/13/99				13.12	87.57	2.07
	10/19/99				14.63	86.06	-1.51
MW-13	09/13/91	45.00	Protective Casing	99.25	15.10	84.15	
	11/21/91				13.95	85.30	1.15
	03/16/93				13.22	86.03	0.73
	01/09/94				14.03	85.22	-0.81
	04/19/94				13.90	85.35	0.13
	07/20/94				13.70	85.55	0.20
	10/24/94				13.86	85.39	-0.16
	01/24/95				13.56	85.69	0.30
	04/02/95				13.87	85.38	-0.31
	07/31/95				13.84	85.41	0.03
	10/16/95				13.83	85.42	0.01
	01/10/96				14.02	85.23	-0.19
	04/09/96				14.20	85.05	-0.18
	07/20/96				15.04	84.21	-0.84
	10/21/96				13.31	85.94	1.73
	01/21/97				12.70	86.55	0.61
	04/08/97				12.48	86.77	0.22
	07/29/97				13.43	85.82	-0.95
	10/16/97				12.02	87.23	1.41
	01/06/98				11.44	87.81	0.58
	04/14/98				11.50	87.75	-0.06
	07/17/98				13.10	86.15	-1.60
	10/27/98				13.58	85.67	-0.48
	02/09/99				13.81	85.44	-0.23
	04/21/99				13.22	86.03	0.59
	07/13/99				11.08	88.17	2.14
	10/20/99				12.64	86.61	-1.56
MW-14	09/13/91	35.00	Protective Casing	98.74	14.60	84.14	
	11/21/91				13.61	85.13	0.99
	03/16/93				13.00	85.74	0.61
	01/09/94				13.71	85.03	-0.71
	04/19/94				13.63	85.11	0.08
	07/20/94				13.39	85.35	0.24
	10/24/94				13.48	85.26	-0.09
	01/25/95				13.26	85.48	0.22
	04/02/95				13.61	85.13	-0.35
	07/31/95				13.44	85.30	0.17
	10/16/95				13.52	85.22	-0.08
	01/10/96				13.76	84.98	-0.24
	04/09/96				13.96	84.78	-0.20
	07/20/96				14.74	84.00	-0.78
	10/21/96				13.03	85.71	1.71
	01/21/97				12.47	86.27	0.56
	04/08/97				12.44	86.30	0.03
	07/29/97				13.30	85.44	-0.86
	10/16/97				11.93	86.81	1.37
	01/06/98				11.46	87.28	0.47
	04/14/98				11.48	87.26	-0.02
	07/17/98				12.94	85.80	-1.46
	10/27/98				13.25	85.49	-0.31
	02/09/99				13.59	85.15	-0.34
	04/21/99				12.96	85.78	0.63
	07/13/99				10.85	87.89	2.11
	10/20/99				12.42	86.32	-1.57

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
SCHLUMBERGER OILFIELD SERVICES FACILITY, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-15	09/13/91	34.00	Protective Casing	100.05	16.30	83.75	
	11/21/91				15.01	85.04	1.29
	03/16/93				13.95	86.10	1.06
	01/09/94				14.91	85.14	-0.96
	04/19/94				14.80	85.25	0.11
	07/20/94				14.56	85.49	0.24
	10/24/94				14.73	85.32	-0.17
	01/24/95				16.00	84.05	-1.27
	04/02/95				14.80	85.25	1.20
	07/31/95				14.82	85.23	-0.02
	10/16/95				14.74	85.31	0.08
	01/10/96				14.95	85.10	-0.21
	04/09/96				15.11	84.94	-0.16
	07/20/96				15.96	84.09	-0.85
	10/21/96				14.22	85.83	1.74
	01/21/97				13.64	86.41	0.58
	04/08/97				13.53	86.52	0.11
	07/29/97				14.32	85.73	-0.79
	10/16/97				12.90	87.15	1.42
	01/06/98				12.30	87.75	0.60
	04/14/98				12.38	87.67	-0.08
	07/17/98				13.93	86.12	-1.55
	10/27/98				14.38	85.67	-0.45
	02/09/99				14.68	85.37	-0.30
	04/21/99				14.03	86.02	0.65
	07/13/99				11.90	88.15	2.13
	10/20/99				13.42	86.63	-1.52
MW-17D	04/02/95	19.00	Protective Casing	101.29	16.80	84.49	
	07/31/95				16.48	84.81	0.32
	10/16/95				16.51	84.78	-0.03
	01/10/96				16.90	84.39	-0.39
	04/09/96				17.10	84.19	-0.20
	07/21/96				17.70	83.59	-0.60
	10/21/96				16.02	85.27	1.68
	01/21/97				15.60	85.69	0.42
	04/08/97				15.64	85.65	-0.04
	07/29/97				16.32	84.97	-0.68
	10/16/97				15.11	86.18	1.21
	01/06/98				14.80	86.49	0.31
	04/14/98				14.68	86.61	0.12
	07/17/98				15.92	85.37	-1.24
	10/27/98				15.95	85.34	-0.03
	02/09/99				16.63	84.66	-0.68
	04/21/99				15.82	85.47	0.81
	07/13/99				13.77	87.52	2.05
	10/19/99				15.32	85.97	-1.55
MW-17A	04/02/95	26.00	Protective Casing	100.57	16.05	84.52	
	07/31/95				15.75	84.82	0.30
	10/16/95				15.77	84.80	-0.02
	01/10/96				16.18	84.39	-0.41
	04/09/96				16.37	84.20	-0.19
	07/21/96				16.98	83.59	-0.61
	10/21/96				15.30	85.27	1.68
	01/21/97				14.88	85.69	0.42
	04/08/97				14.92	85.65	-0.04
	07/29/97				15.59	84.98	-0.67
	10/16/97				14.41	86.16	1.18
	01/06/98				14.09	86.48	0.32
	04/14/98				13.95	86.62	0.14
	07/17/98				15.20	85.37	-1.25
	10/27/98				15.23	85.34	-0.03
	02/09/99				15.88	84.69	-0.65
	04/21/99				15.10	85.47	0.78
	07/13/99				13.02	87.55	2.08
	10/19/99				14.54	86.03	-1.52

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
SCHLUMBERGER OILFIELD SERVICES FACILITY, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-17B	04/02/95	34.00	Protective Casing	101.28	16.79	84.49	
	07/31/95				16.50	84.78	0.29
	10/16/95				16.51	84.77	-0.01
	01/10/96				16.92	84.36	-0.41
	04/09/96				17.10	84.18	-0.18
	07/21/96				17.71	83.57	-0.61
	10/21/96				16.02	85.26	1.69
	01/21/97				15.64	85.64	0.38
	04/08/97				15.67	85.61	-0.03
	07/29/97				16.30	84.98	-0.63
	10/16/97				15.16	86.12	1.14
	01/06/98				14.84	86.44	0.32
	04/14/98				14.70	86.58	0.14
	07/17/98				15.92	85.36	-1.22
	10/27/98				16.00	85.28	-0.08
	02/09/99				16.62	84.66	-0.62
	04/21/99				15.79	85.49	0.83
	07/13/99				13.77	87.51	2.02
	10/19/99				15.26	86.02	-1.49
MW-17C	04/02/95	61.00	Protective Casing	101.33	16.93	84.40	
	07/31/95				16.66	84.67	0.27
	10/16/95				16.64	84.69	0.02
	01/10/96				17.08	84.25	-0.44
	04/09/96				17.25	84.08	-0.17
	07/21/96				17.85	83.48	-0.60
	10/21/96				16.17	85.16	1.68
	01/21/97				15.75	85.58	0.42
	04/08/97				15.80	85.53	-0.05
	07/29/97				16.46	84.87	-0.66
	10/16/97				15.33	86.00	1.13
	01/06/98				15.00	86.33	0.33
	04/14/98				14.85	86.48	0.15
	07/17/98				16.09	85.24	-1.24
	10/27/98				16.17	85.16	-0.08
	02/09/99				16.77	84.56	-0.60
	04/21/99				15.95	85.38	0.82
	07/13/99				13.94	87.39	2.01
	10/19/99				15.43	85.90	-1.49
MW-18	04/02/95	28.00	Protective Casing	98.72	14.77	83.95	
	07/31/95				14.21	84.51	0.56
	10/16/95				14.25	84.47	-0.04
	01/10/96				14.90	83.82	-0.65
	04/09/96				15.05	83.67	-0.15
	07/21/96				15.44	83.28	-0.39
	10/21/96				13.78	84.94	1.66
	11/22/96				13.84	84.88	-0.06
	01/21/97				13.54	85.18	0.30
	04/08/97				13.66	85.06	-0.12
	07/29/97				14.13	84.59	-0.47
	10/16/97				13.34	85.38	0.79
	01/06/98				13.13	85.59	0.21
	04/14/98				12.79	85.93	0.34
	07/17/98				13.75	84.97	-0.96
	10/27/98				13.82	84.90	-0.07
	02/09/99				14.58	84.14	-0.76
	04/21/99				13.58	85.14	1.00
	07/13/99				11.66	87.06	1.92
	10/19/99				13.01	85.71	-1.35
MW-19	04/02/95	28.00	Protective Casing	99.08	14.86	84.22	
	07/31/95				14.29	84.79	0.57
	10/16/95				14.39	84.69	-0.10
	01/10/96				14.98	84.10	-0.59
	04/09/96				15.14	83.94	-0.16
	07/21/96				15.62	83.46	-0.48

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
SCHLUMBERGER OILFIELD SERVICES FACILITY, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-19 Cont.	10/21/96				14.00	85.08	1.62
	11/22/96				14.03	85.05	-0.03
	01/21/97				13.69	85.39	0.34
	04/08/97				13.76	85.32	-0.07
	07/29/97				14.37	84.71	-0.61
	10/16/97				13.47	85.61	0.90
	01/06/98				13.21	85.87	0.26
	04/14/98				12.90	86.18	0.31
	07/17/98				13.96	85.12	-1.06
	10/27/98				14.11	84.97	-0.15
	02/09/99				14.74	84.34	-0.63
	04/21/99				13.91	85.17	0.83
	07/13/99				11.99	87.09	1.92
	10/19/99				13.35	85.73	-1.36
MW-20	11/22/96	28.00	Protective Casing	101.09	16.28	84.81	
	01/21/97				16.08	85.01	0.20
	04/08/97				16.04	85.05	0.04
	07/29/97				16.46	84.63	-0.42
	10/16/97				15.76	85.33	0.70
	01/06/98				15.61	85.48	0.15
	04/14/98				15.13	85.96	0.48
	07/17/98				16.15	84.94	-1.02
	10/27/98				16.07	85.02	0.08
	02/09/99				16.94	84.15	-0.87
	04/21/99				15.48	85.61	1.46
	07/13/99				13.50	87.59	1.98
	10/19/99				15.25	85.84	-1.75
MW-21	11/22/96	25.00	Protective Casing	98.88	14.36	84.52	
	01/21/97				14.26	84.62	0.10
	04/08/97			98.89	14.41	84.48	-0.14
	07/29/97				14.54	84.35	-0.13
	10/16/97				14.18	84.71	0.36
	01/06/98				14.17	84.72	0.01
	04/14/98				13.60	85.29	0.57
	07/17/98				14.21	84.68	-0.61
	10/27/98				14.22	84.67	-0.01
	02/09/99				15.29	83.60	-1.07
	04/21/99				13.94	84.95	1.35
	07/13/99				12.03	86.86	1.91
	10/19/99				13.41	85.48	-1.38
MW-22	11/22/96	24.50	Protective Casing	97.16	12.88	84.28	
	01/21/97				12.94	84.22	-0.06
	04/08/97			97.14	13.42	83.72	-0.50
	07/29/97				13.16	83.98	0.26
	10/16/97				13.23	83.91	-0.07
	01/06/98				13.46	83.68	-0.23
	04/14/98				12.80	84.34	0.66
	07/17/98				12.65	84.49	0.15
	10/27/98				12.90	84.24	-0.25
	02/09/99				14.35	82.79	-1.45
	04/21/99				13.15	83.99	1.20
	07/13/99				11.45	85.69	1.70
	10/19/99				12.22	84.92	-0.77
MW-23	11/22/96	25.00	Protective Casing	97.33	12.72	84.61	
	01/21/97				12.59	84.74	0.13
	04/08/97			97.30	13.07	84.23	-0.51
	07/29/97				13.14	84.16	-0.07
	10/16/97				13.06	84.24	0.08
	01/06/98				13.13	84.17	-0.07
	04/14/98				12.52	84.78	0.61
	07/17/98				12.64	84.66	-0.12
	10/27/98				12.84	84.46	-0.20
	02/09/99				14.16	83.14	-1.32

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
SCHLUMBERGER OILFIELD SERVICES FACILITY, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-23 Cont.	04/21/99				13.25	84.05	0.91
	07/13/99				11.55	85.75	1.70
	10/19/99				12.39	84.91	-0.84
MW-24	11/22/96	27.00	Protective Casing	103.42	17.91	85.51	
	01/21/97				17.56	85.86	0.35
	04/08/97			103.41	17.40	86.01	0.15
	07/29/97				17.72	85.69	-0.32
	10/16/97				16.58	86.83	1.14
	01/06/98				16.01	87.40	0.57
	04/14/98				16.17	87.24	-0.16
	07/17/98				17.49	85.92	-1.32
	10/27/98				17.40	86.01	0.09
	02/09/99				18.09	85.32	-0.69
	04/21/99				16.98	86.43	1.11
	07/13/99				14.88	88.53	2.10
	10/19/99				16.51	86.90	-1.63
MW-25	04/08/97	25.00	Protective Casing	97.64	14.23	83.41	-
	07/29/97				13.77	83.87	0.46
	10/16/97				13.99	83.65	-0.22
	01/06/98				14.37	83.27	-0.38
	04/14/98				13.65	83.99	0.72
	07/17/98				13.26	84.38	0.39
	10/27/98				13.57	84.07	-0.31
	02/09/99				15.17	82.47	-1.60
	04/21/99				13.75	83.89	1.42
	07/13/99				12.16	85.48	1.59
	10/19/99				12.81	84.83	-0.65
MW-26	04/08/97	25.00	Protective Casing	96.11	13.06	83.05	-
	07/29/97				12.23	83.88	0.83
	10/16/97				12.75	83.36	-0.52
	01/06/98				13.40	82.71	-0.65
	04/14/98				12.61	83.50	0.79
	07/17/98				11.64	84.47	0.97
	10/27/98				12.16	83.95	-0.52
	02/09/99				14.13	81.98	-1.97
	04/21/99				12.41	83.70	1.72
	07/13/99				11.11	85.00	1.30
	10/19/99				11.40	84.71	-0.29
MW-27	04/08/97	25.00	Protective Casing	96.17	13.06	83.11	-
	07/29/97				12.21	83.96	0.85
	10/16/97				12.79	83.38	-0.58
	01/06/98				13.56	82.61	-0.77
	04/14/98				12.75	83.42	0.81
	07/17/98				11.53	84.64	1.22
	10/27/98				12.09	84.08	-0.56
	02/09/99				14.29	81.88	-2.20
	04/21/99				12.53	83.64	1.76
	07/13/99				11.41	84.76	1.12
	10/19/99				11.48	84.69	-0.07
MW-28	07/17/98	25.00	Protective Casing	97.93	14.32	83.61	-
	10/27/98				14.43	83.50	-0.11
	02/09/99				15.71	82.22	-1.28
	04/21/99				14.28	83.65	1.43
	07/13/99				12.41	85.52	1.87
	10/19/99				13.48	84.45	-1.07

TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS,
SCHLUMBERGER OILFIELD SERVICES FACILITY, ARTESIA, NEW MEXICO.

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION* (ft)	DEPTH TO GROUND WATER (ft)	STATIC WATER ELEVATION (Ft)	DIFFERENCE FROM PRIOR MEASUREMENT
MW-29	07/17/98	25.00	Protective Casing	97.04	14.07	82.97	-
	10/27/98				14.36	82.68	-0.29
	02/09/99				15.83	81.21	-1.47
	04/21/99				14.48	82.56	1.35
	07/13/99				12.84	84.20	1.64
	10/19/99				13.35	83.69	-0.51
MW-30	07/17/98	25.00	Protective Casing	96.58	12.68	83.90	-
	10/27/98				13.12	83.46	-0.44
	02/09/99				14.88	81.70	-1.76
	04/21/99				13.38	83.20	1.50
	07/13/99				11.85	84.73	1.53
	10/19/99				12.28	84.30	-0.43

NOTES:

NM = not measured

* = measured from a temporary benchmark of arbitrary elevation = 100.00 feet.

Benchmark is located on the concrete right up against the east shop wall,
at the northeast corner of the shop.

** = water level measurement may be in error

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-4 Cont.	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	10/28/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/20/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/26/91	0.014	ND(0.001)	ND(0.001)	ND(0.005)	0.004	ND(0.001)	0.002	0.001	ND(0.001)	0.010
	09/15/91	ND(0.001)	0.001	ND(0.001)	ND(0.005)	0.005	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.018
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.005	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.018
dup.	03/16/93	0.078	0.007	ND(0.001)	ND(0.005)	0.013	ND(0.001)	0.003	ND(0.001)	0.001	0.026
	01/10/94	0.025	ND(0.001)	ND(0.001)	ND(0.005)	0.008	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.026
	04/19/94	0.070	0.011	ND(0.005)	ND(0.005)	0.008	ND(0.005)	ND(0.005)	ND(0.005)	0.002	0.015
	07/20/94	0.220	0.041	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	0.004	0.025
	07/20/94	0.320	0.076	ND(0.005)	0.001	0.026	ND(0.005)	0.002	ND(0.005)	0.006	0.039
	10/25/94	0.240	0.059	ND(0.005)	ND(0.005)	0.020	ND(0.005)	0.002	ND(0.005)	0.008	0.043
	01/25/95	0.460	0.130	ND(0.005)	ND(0.005)	0.023	ND(0.005)	0.002	ND(0.005)	0.018	0.093
	04/03/95	0.390	0.087	ND(0.005)	ND(0.005)	0.013	ND(0.005)	ND(0.005)	ND(0.005)	0.015	0.062
	08/01/95	0.170	0.082	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	0.018	0.049
	10/18/95	0.200	0.093	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	0.021	0.054
MW-5	04/13/96	0.068	0.037	ND(0.005)	0.027	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.008	0.025
	07/21/96	0.092	0.057	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.025
	10/22/96	0.066	0.023	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.025
	01/24/97	0.031	0.025	ND(0.001)	ND(0.002)	0.002	ND(0.001)	ND(0.001)	ND(0.001)	0.003	0.019
	04/09/97	0.040	0.040	ND(0.002)	ND(0.004)	0.003	ND(0.002)	ND(0.002)	ND(0.002)	0.004	0.028
	07/30/97	0.018	0.044	ND(0.002)	ND(0.004)	0.002	ND(0.002)	ND(0.002)	ND(0.002)	0.003	0.029
	10/17/97	0.016	0.048	ND(0.002)	ND(0.004)	0.001	ND(0.002)	ND(0.002)	ND(0.002)	0.004	0.033
	10/28/98	0.006	0.009	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.006	0.027
	10/20/99	0.012	0.008	0.002	ND(0.002)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.007	0.034
	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.007	ND(0.001)	0.170	0.007	ND(0.001)	0.083
dup.	09/15/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.006	ND(0.001)	0.084	ND(0.001)	ND(0.001)	0.043
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.005	ND(0.001)	0.064	ND(0.001)	ND(0.001)	0.035
	03/16/93	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.007	ND(0.001)	0.098	0.001	ND(0.001)	0.056
	01/10/94	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.017	ND(0.001)	0.140	0.002	ND(0.001)	0.120
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.070	0.002	ND(0.005)	0.072
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	0.098	0.001	ND(0.005)	0.065
	10/25/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.110	0.001	ND(0.005)	0.073
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.012	ND(0.005)	0.079	ND(0.005)	ND(0.005)	0.059
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	0.065	ND(0.005)	ND(0.005)	0.057
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.074	ND(0.005)	ND(0.005)	0.048
MW-6	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.060	ND(0.005)	ND(0.005)	0.030
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	0.051	ND(0.005)	ND(0.005)	0.029
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.012	ND(0.005)	0.042	ND(0.005)	ND(0.005)	0.022
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	0.047	ND(0.005)	ND(0.005)	0.021
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.037	ND(0.005)	ND(0.005)	0.016
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.010	ND(0.001)	0.041	ND(0.001)	ND(0.001)	0.016
	04/09/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.010	ND(0.001)	0.025	ND(0.001)	ND(0.001)	0.006
	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.007	ND(0.001)	0.170	0.007	ND(0.001)	0.083
	09/15/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.006	ND(0.001)	0.084	ND(0.001)	ND(0.001)	0.043
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.005	ND(0.001)	0.064	ND(0.001)	ND(0.001)	0.035

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-6 Cont.	07/30/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.006	ND(0.002)	0.016	ND(0.002)	ND(0.002)	0.008
	10/17/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.011	ND(0.002)	0.023	ND(0.002)	ND(0.002)	0.007
	10/28/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.007	ND(0.002)	0.016	ND(0.002)	ND(0.002)	0.008
	10/19/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.010	ND(0.001)	0.024	ND(0.001)	ND(0.001)	0.010
MW-7	01/26/91	0.006	ND(0.001)	ND(0.001)	ND(0.005)	0.021	ND(0.001)	0.260	0.010	0.068	0.200
	09/15/91	0.009	ND(0.001)	ND(0.001)	ND(0.005)	0.038	ND(0.001)	0.320	0.005	0.069	0.270
dup.	09/15/91	0.009	ND(0.001)	ND(0.001)	ND(0.005)	0.034	ND(0.001)	0.310	0.006	0.069	0.280
	11/22/91	0.009	ND(0.005)	ND(0.005)	ND(0.025)	0.035	ND(0.005)	0.360	ND(0.005)	0.053	0.310
	03/16/93	0.007	ND(0.001)	ND(0.001)	ND(0.005)	0.027	ND(0.001)	0.280	0.002	0.050	0.160
	01/10/94	0.005	ND(0.001)	ND(0.001)	ND(0.005)	0.023	ND(0.001)	0.210	0.004	0.046	0.160
	04/19/94	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.021	ND(0.005)	0.120	0.003	0.038	0.120
	07/20/94	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.018	ND(0.005)	0.220	0.003	0.040	0.160
	10/25/94	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.033	ND(0.005)	0.230	ND(0.005)	0.050	0.240
	10/25/94	0.006	ND(0.025)	ND(0.025)	ND(0.025)	0.026	ND(0.025)	0.200	ND(0.025)	0.045	0.230
dup.	01/25/95	0.005	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.210	0.002	0.041	0.330
	04/03/95	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.029	ND(0.005)	0.290	ND(0.005)	0.038	0.260
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.038	ND(0.005)	0.300	ND(0.005)	0.051	0.250
	10/18/95	0.005	ND(0.005)	ND(0.005)	ND(0.005)	0.024	ND(0.005)	0.300	0.002	0.045	0.300
	01/11/96	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.260	ND(0.005)	0.035	0.250
	04/13/96	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.370	ND(0.005)	0.030	0.260
	07/22/96	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.029	ND(0.005)	0.280	ND(0.005)	0.026	0.220
	10/22/96	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.028	ND(0.010)	0.350	ND(0.010)	0.023	0.260
	01/24/97	0.005	ND(0.001)	ND(0.001)	ND(0.002)	0.021	0.001	0.244	0.002	0.019	0.203
	04/09/97	0.005	ND(0.002)	ND(0.002)	ND(0.004)	0.022	ND(0.002)	0.186	ND(0.002)	0.017	0.148
	07/30/97	0.005	ND(0.010)	ND(0.010)	ND(0.020)	0.023	ND(0.010)	0.236	ND(0.010)	0.019	0.255
	10/17/97	0.005	ND(0.010)	ND(0.010)	ND(0.020)	0.029	ND(0.010)	0.255	ND(0.010)	0.020	0.153
	10/28/98	0.004	ND(0.010)	ND(0.010)	ND(0.020)	0.024	ND(0.010)	0.193	ND(0.010)	0.031	0.251
	04/22/99	0.005	ND(0.005)	ND(0.005)	ND(0.010)	0.034	ND(0.005)	0.255	ND(0.005)	0.043	0.275
	10/19/99	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	0.034	ND(0.005)	0.184	ND(0.005)	0.045	0.198
MW-8	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	0.005	ND(0.001)	ND(0.001)	0.015	0.004	0.001	0.003
	09/15/91	0.007	ND(0.001)	ND(0.001)	ND(0.005)	0.017	ND(0.001)	0.101	0.007	0.039	0.050
	11/22/91	0.004	ND(0.001)	ND(0.001)	ND(0.005)	0.020	ND(0.001)	0.087	0.003	0.045	0.063
	03/16/93	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.004	ND(0.001)	0.054	0.005	0.006	0.009
dup.	01/10/94	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.004	ND(0.001)	0.054	0.004	0.006	0.006
	01/10/94	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.005	ND(0.001)	0.073	0.004	0.008	0.010
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.004	ND(0.005)	0.039	0.004	0.004	0.007
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.004	ND(0.005)	0.069	0.005	0.006	0.011
	10/25/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.008	ND(0.005)	0.082	ND(0.005)	0.010	0.019
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.007	ND(0.005)	0.076	0.006	0.011	0.022
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.006	ND(0.005)	0.074	ND(0.005)	0.008	0.017
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	0.110	ND(0.005)	0.023	0.053
	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	0.081	0.002	0.015	0.044
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.069	ND(0.005)	0.006	0.019
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.007	ND(0.005)	0.099	ND(0.005)	0.011	0.036
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.006	ND(0.005)	0.087	ND(0.005)	0.010	0.035
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	ND(0.005)	0.150	ND(0.005)	0.035	0.089
dup.	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	ND(0.005)	0.140	ND(0.005)	0.030	0.072
	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.019	0.001	0.081	0.002	0.017	0.018
dup.	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.017	0.001	0.088	0.002	0.014	0.017

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-8 Cont.	04/09/97	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.015	ND(0.002)	0.097	ND(0.002)	0.019	0.028
dup.	07/30/97	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.012	ND(0.002)	0.105	ND(0.002)	0.015	0.048
	10/17/97	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.011	ND(0.002)	0.106	0.002	0.015	0.055
dup	10/28/98	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	0.010	ND(0.002)	0.104	ND(0.002)	0.010	0.026
	10/28/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.003	ND(0.005)	0.111	ND(0.005)	ND(0.005)	0.010
	04/22/99	ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.005)	0.003	ND(0.001)	0.128	ND(0.01)	ND(0.01)	0.009
	10/19/99	ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.005)	ND(0.0025)	ND(0.0025)	0.152	0.002	ND(0.0025)	0.007
MW-9	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.022	ND(0.001)	0.002	ND(0.001)	ND(0.001)	0.001
	09/15/91	0.002	0.032	ND(0.001)	ND(0.005)	0.035	ND(0.001)	0.002	ND(0.001)	ND(0.001)	ND(0.001)
	11/22/91	0.004	0.170	ND(0.001)	ND(0.005)	0.029	ND(0.001)	0.002	ND(0.001)	ND(0.001)	0.001
	03/16/93	ND(0.001)	ND(0.001)	0.002	ND(0.005)	0.012	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)
	01/10/94	ND(0.001)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.005)
	04/19/94	ND(0.005)	ND(0.005)	0.001	0.001	0.017	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.014	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	10/25/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.014	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	10/18/95	ND(0.005)	0.016	ND(0.005)	ND(0.005)	0.017	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	01/10/96	ND(0.005)	0.032	ND(0.005)	ND(0.005)	0.020	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.021	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.024	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
#	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.019	ND(0.001)	0.002	ND(0.001)	0.002	0.001
	04/09/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.022	ND(0.001)	0.002	ND(0.001)	0.002	0.001
	07/30/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.020	ND(0.002)	0.001	ND(0.002)	0.001	ND(0.002)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.018	ND(0.001)	0.001	ND(0.001)	0.001	ND(0.001)
	10/28/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.005	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	10/19/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)
	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	ND(0.001)	ND(0.001)
	09/15/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.012	0.002	ND(0.001)	ND(0.001)
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.029	0.005	ND(0.001)	ND(0.001)
	03/16/93	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.025	0.001	ND(0.001)	ND(0.001)
MW-10	01/10/94	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.021	ND(0.001)	ND(0.001)	ND(0.001)
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	0.001	ND(0.005)	ND(0.005)
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.052	0.004	ND(0.005)	ND(0.005)
	10/25/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.051	ND(0.005)	ND(0.005)	ND(0.005)
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.042	ND(0.005)	ND(0.005)	ND(0.005)
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.057	0.005	ND(0.005)	ND(0.005)
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.070	ND(0.005)	ND(0.005)	ND(0.005)
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.130	0.007	ND(0.005)	ND(0.005)
	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.130	0.006	ND(0.005)	ND(0.005)
	01/10/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.063	ND(0.005)	ND(0.005)	ND(0.005)
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.170	ND(0.005)	ND(0.005)	ND(0.005)
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.170	ND(0.005)	ND(0.005)	ND(0.005)
	10/22/96	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.250	ND(0.010)	ND(0.010)	ND(0.005)
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	0.181	0.005	ND(0.001)	ND(0.001)
	04/09/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.001	ND(0.002)	0.158	0.004	ND(0.002)	ND(0.002)
	01/26/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	ND(0.001)	ND(0.001)
dup.	09/15/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.012	0.002	ND(0.001)	ND(0.001)
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.029	0.005	ND(0.001)	ND(0.001)
	03/16/93	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.025	0.001	ND(0.001)	ND(0.001)
	01/10/94	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.001)	ND(0.001)	0.021	ND(0.001)	ND(0.001)	ND(0.001)
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.052	0.001	ND(0.005)	ND(0.005)
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.051	0.004	ND(0.005)	ND(0.005)
	10/25/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.042	ND(0.005)	ND(0.005)	ND(0.005)
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.057	0.005	ND(0.005)	ND(0.005)
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.070	ND(0.005)	ND(0.005)	ND(0.005)
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.130	0.007	ND(0.005)	ND(0.005)
	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.130	0.006	ND(0.005)	ND(0.005)

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-10 Cont.	07/30/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	ND(0.005)	ND(0.005)	0.156	0.004	ND(0.005)	ND(0.005)
	10/17/97	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)	0.196	0.004	ND(0.010)	ND(0.010)
	10/28/98	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)	0.111	ND(0.010)	ND(0.010)	ND(0.010)
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	0.098	0.001	ND(0.001)	ND(0.001)
	10/19/99	ND(0.0025)	ND(0.0025)	0.002	ND(0.005)	ND(0.0025)	ND(0.0025)	0.080	ND(0.0025)	ND(0.0025)	ND(0.0025)
MW-11	01/26/91	0.010	ND(0.005)	ND(0.005)	ND(0.025)	0.045	ND(0.005)	0.310	ND(0.005)	0.140	0.360
	09/15/91	0.056	ND(0.001)	ND(0.001)	ND(0.005)	0.068	ND(0.001)	0.470	0.017	0.120	0.330
	11/22/91	0.048	ND(0.001)	ND(0.001)	ND(0.005)	0.052	ND(0.001)	0.390	0.018	0.110	0.320
	03/16/93	0.005	ND(0.001)	ND(0.001)	ND(0.005)	0.040	ND(0.001)	0.220	0.004	0.074	0.160
	01/10/94	0.005	ND(0.001)	ND(0.001)	ND(0.005)	0.042	ND(0.001)	0.250	ND(0.001)	0.083	0.320
	04/19/94	0.009	ND(0.005)	0.002	ND(0.005)	0.042	ND(0.005)	0.170	0.006	0.079	0.170
	07/20/94	ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.025)	0.057	ND(0.0025)	0.460	0.010	0.120	0.360
	10/25/94	0.009	ND(0.005)	ND(0.005)	ND(0.005)	0.067	0.001	0.220	ND(0.005)	0.110	0.300
	01/25/95	0.012	ND(0.005)	ND(0.005)	ND(0.005)	0.072	ND(0.005)	0.240	0.014	0.120	0.360
	04/03/95	0.009	ND(0.005)	ND(0.005)	ND(0.005)	0.062	ND(0.005)	0.410	0.013	0.100	0.430
	08/01/95	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.050	ND(0.005)	0.360	0.014	0.063	0.330
dup.	08/01/95	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.051	ND(0.005)	0.310	0.015	0.071	0.340
	10/18/95	0.005	ND(0.005)	ND(0.005)	ND(0.005)	0.043	ND(0.005)	0.270	0.010	0.057	0.330
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.033	ND(0.005)	0.230	0.011	0.043	0.310
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.240	ND(0.005)	0.020	0.230
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.035	ND(0.005)	0.200	0.008	0.036	0.260
	10/22/96	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.034	ND(0.010)	0.230	ND(0.010)	0.029	0.260
	01/24/97	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.029	0.001	0.157	0.008	0.026	0.212
	04/09/97	0.002	ND(0.002)	ND(0.002)	ND(0.004)	0.033	ND(0.002)	0.128	0.008	0.027	0.180
	07/30/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	0.032	ND(0.005)	0.102	0.006	0.032	0.170
	10/17/97	0.003	ND(0.010)	ND(0.010)	ND(0.020)	0.048	ND(0.010)	0.142	0.005	0.031	0.063
	01/07/98	0.004	ND(0.010)	ND(0.010)	ND(0.020)	0.054	ND(0.010)	0.145	0.005	0.049	0.176
dup.	01/07/98	0.004	ND(0.010)	ND(0.010)	ND(0.020)	0.061	ND(0.010)	0.155	0.006	0.053	0.200
	04/15/98	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	0.059	ND(0.010)	0.130	ND(0.010)	0.057	0.151
	07/18/98	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	0.071	ND(0.010)	0.120	ND(0.010)	0.064	0.143
	10/28/98	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	0.072	ND(0.010)	0.110	ND(0.010)	0.065	0.129
	02/09/99	0.004	ND(0.001)	ND(0.001)	ND(0.002)	0.070	0.001	0.130	0.002	0.070	0.157
	02/09/99	0.004	ND(0.001)	ND(0.001)	ND(0.002)	0.083	0.001	0.143	0.002	0.071	0.149
	04/22/99	0.004	ND(0.0025)	ND(0.0025)	ND(0.005)	0.090	ND(0.0025)	0.123	ND(0.0025)	0.067	0.117
	07/13/99	0.004	ND(0.0025)	ND(0.0025)	ND(0.005)	0.069	ND(0.0025)	0.116	ND(0.0025)	0.058	0.130
	10/19/99	0.003	ND(0.0025)	ND(0.0025)	ND(0.005)	0.059	ND(0.0025)	0.094	ND(0.0025)	0.047	0.112
MW-12	01/26/91	0.260	0.950	0.230	4.500	0.140	ND(0.025)	ND(0.025)	0.057	0.073	0.042
	09/15/91	0.150	0.620	0.630	2.200	0.120	ND(0.001)	0.300	0.110	0.200	0.061
	11/22/91	0.110	0.430	0.034	0.810	0.110	0.002	0.240	0.100	0.260	0.051
	03/16/93	0.160	0.800	0.014	1.000	0.120	ND(0.001)	0.039	0.055	0.036	0.018
	01/10/94	0.160	0.870	0.026	0.990	0.150	ND(0.01)	0.075	0.053	0.070	0.024
	04/19/94	0.110	0.110	0.049	0.250	0.110	0.002	0.064	0.065	0.073	0.033
	07/20/94	0.160	0.720	0.071	0.610	0.150	ND(0.025)	0.073	0.075	0.086	0.022
	10/25/94	0.096	0.660	ND(0.025)	0.100	0.160	ND(0.025)	0.085	ND(0.025)	0.120	0.015
	01/25/95	0.160	0.680	0.069	0.600	0.190	ND(0.005)	0.120	0.095	0.076	0.069
dup.	01/25/95	0.140	0.850	0.075	0.860	0.150	ND(0.005)	0.090	0.075	0.062	0.053
	04/03/95	0.150	0.790	0.200	1.100	0.160	ND(0.005)	0.110	0.096	0.043	0.056
	08/01/95	0.130	0.700	0.280	1.400	0.170	ND(0.025)	0.150	0.079	0.098	0.059
	10/18/95	0.140	0.990	0.360	2.030	0.170	ND(0.005)	0.100	0.100	0.058	0.050

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-12 Cont.	01/11/96	0.100	0.680	0.180	1.840	0.140	ND(0.005)	0.097	0.059	0.060	0.048
#	04/13/96	0.098	0.620	0.180	0.690	0.150	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.023
	07/22/96	0.130	0.920	0.310	1.790	0.160	ND(0.005)	0.087	0.170	0.045	0.046
	10/22/96	ND(0.1)	0.830	0.190	1.800	0.190	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
	01/24/97	0.093	0.822	0.133	1.738	0.162	ND(0.010)	0.046	0.060	0.037	0.039
dup.	04/09/97	0.086	0.920	0.138	1.869	0.159	ND(0.020)	0.040	0.051	0.046	0.039
	07/30/97	0.079	0.855	0.129	1.837	0.159	ND(0.010)	0.040	0.054	0.047	0.039
MW-12 Cont.	10/17/97	0.178	0.969	0.127	2.294	0.136	ND(0.050)	0.035	0.062	0.036	0.043
	10/28/98	0.064	1.290	0.853	5.540	0.185	ND(0.1)	0.061	0.186	ND(0.050)	0.045
	04/22/99	0.075	1.150	ND(0.1)	0.745	0.141	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
	04/22/99	0.063	1.150	ND(0.025)	0.612	0.171	ND(0.025)	0.031	0.040	0.034	0.034
dup.	10/19/99	0.051	1.090	0.008	0.546	0.140	ND(0.005)	0.017	0.039	0.022	0.017
	10/19/99	0.049	1.100	ND(0.025)	0.176	0.207	ND(0.025)	0.017	ND(0.025)	0.027	ND(0.025)
	10/19/99			ND(0.025)	0.151	0.208	ND(0.025)	0.017	ND(0.025)	0.026	ND(0.025)
MW-13	09/15/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.030	0.002	0.038	0.005	0.004	0.240
	11/22/91	0.430	ND(0.001)	ND(0.001)	ND(0.005)	0.016	0.001	0.025	0.002	0.002	0.110
dup.	03/16/93	0.033	ND(0.001)	ND(0.001)	ND(0.005)	0.013	ND(0.001)	0.014	ND(0.001)	0.002	0.062
	03/16/93	0.034	ND(0.001)	ND(0.001)	ND(0.005)	0.013	0.001	0.015	ND(0.001)	0.002	0.066
	01/10/94	0.022	ND(0.001)	ND(0.001)	ND(0.005)	0.016	ND(0.001)	0.007	ND(0.001)	0.003	0.055
	04/19/94	0.013	ND(0.005)	ND(0.005)	ND(0.005)	0.011	0.001	0.003	ND(0.005)	0.003	0.032
	07/20/94	0.016	ND(0.005)	ND(0.005)	ND(0.005)	0.016	0.001	0.005	ND(0.005)	0.004	0.034
	10/25/94	0.011	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.004	ND(0.005)	0.004	0.040
	01/22/95	0.008	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	0.002	ND(0.005)	0.005	0.029
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.017	ND(0.005)	ND(0.005)	ND(0.005)	0.007	0.025
	10/18/95	0.003	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	ND(0.005)	ND(0.005)	0.008	0.020
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	0.005	0.015
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011
	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	ND(0.005)	ND(0.005)	0.007	0.013
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.006	0.010
	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.005	0.001	0.001	ND(0.005)	0.003	0.003
dup.	04/09/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	0.001	ND(0.001)	0.005	0.005
	04/09/97	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.005	ND(0.001)	0.001	ND(0.001)	0.006	0.005
	07/30/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	0.001	ND(0.001)	0.007	0.009
dup.	10/17/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.006	0.009
	10/17/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.003	ND(0.002)	ND(0.002)	ND(0.002)	0.006	0.007
	01/07/98	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	ND(0.001)	ND(0.001)	0.008	0.011
	04/15/98	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.007	0.009
	07/18/98	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.010	0.016
	10/28/98	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.005	ND(0.001)	ND(0.001)	ND(0.001)	0.009	0.015
	02/09/99	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.007	ND(0.001)	0.001	ND(0.001)	0.019	0.026
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.008	0.009
	07/13/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.006	0.008
	10/20/99	ND(0.001)	ND(0.001)	0.001	ND(0.002)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.006	0.005
MW-14	09/15/91	0.022	ND(0.001)	ND(0.001)	ND(0.005)	0.130	0.002	0.300	0.014	0.002	0.460
	11/22/91	0.002	ND(0.001)	ND(0.001)	ND(0.005)	0.140	0.002	0.310	0.009	0.002	0.400
dup.	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.110	0.002	0.320	0.010	ND(0.001)	0.440
	03/16/93	0.020	ND(0.001)	ND(0.001)	ND(0.005)	0.080	0.001	0.180	0.004	0.002	0.210
	01/10/94	0.011	ND(0.001)	ND(0.001)	ND(0.005)	0.057	ND(0.001)	0.100	ND(0.001)	0.002	0.300

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-14 Cont.	04/19/94	0.005	ND(0.005)	ND(0.005)	ND(0.005)	0.058	ND(0.005)	0.056	0.001	ND(0.005)	0.160
	07/20/94	0.010	ND(0.025)	ND(0.025)	ND(0.025)	0.072	ND(0.025)	0.110	ND(0.025)	ND(0.025)	0.210
	10/25/94	0.010	ND(0.005)	ND(0.005)	ND(0.005)	0.079	0.001	0.094	ND(0.005)	ND(0.005)	0.230
	01/25/95	0.004	ND(0.005)	ND(0.005)	ND(0.005)	0.083	ND(0.005)	0.070	ND(0.005)	ND(0.005)	0.022
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.063	ND(0.005)	0.058	ND(0.005)	ND(0.005)	0.130
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.074	ND(0.005)	0.072	ND(0.005)	ND(0.005)	0.098
	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.062	ND(0.005)	0.044	ND(0.005)	ND(0.005)	0.087
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.051	ND(0.005)	0.038	ND(0.005)	ND(0.005)	0.061
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.053	ND(0.005)	0.040	ND(0.005)	ND(0.005)	0.064
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.051	ND(0.005)	0.045	ND(0.005)	ND(0.005)	0.057
dup.	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.048	ND(0.005)	0.037	ND(0.005)	ND(0.005)	0.055
	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.052	ND(0.005)	0.043	ND(0.005)	ND(0.005)	0.064
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.056	ND(0.005)	0.049	ND(0.005)	ND(0.005)	0.062
	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.040	0.001	0.023	ND(0.001)	ND(0.001)	0.014
dup.	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.045	0.001	0.027	ND(0.001)	ND(0.001)	0.010
	04/09/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	0.039	ND(0.005)	0.023	ND(0.005)	ND(0.005)	0.024
	07/30/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	0.036	ND(0.005)	0.021	ND(0.005)	ND(0.005)	0.043
	10/17/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	0.039	ND(0.005)	0.019	ND(0.005)	ND(0.005)	0.048
dup.	10/28/98	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	0.045	ND(0.005)	0.019	ND(0.005)	ND(0.005)	0.074
	10/20/99	ND(0.0025)	ND(0.0025)	ND(0.0025)	0.002	0.054	ND(0.0025)	0.019	ND(0.0025)	ND(0.0025)	0.080
MW-15	09/15/91	0.002	0.010	ND(0.001)	0.006	0.026	0.001	0.005	ND(0.001)	ND(0.001)	0.004
	11/22/91	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.005)	0.033	0.001	0.009	ND(0.001)	0.003	0.006
	03/16/93	0.001	0.002	ND(0.001)	ND(0.005)	0.082	0.001	0.013	ND(0.001)	0.006	0.009
	01/10/94	ND(0.001)	0.008	ND(0.001)	ND(0.005)	0.048	ND(0.001)	0.009	ND(0.001)	0.004	0.013
	01/10/94	0.001	0.009	0.002	ND(0.005)	0.054	ND(0.001)	0.010	ND(0.001)	0.004	0.015
	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.005	ND(0.005)	0.003	0.008
	07/20/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.049	0.001	0.006	ND(0.005)	0.004	0.005
	10/25/94	0.001	ND(0.005)	ND(0.005)	ND(0.005)	0.029	ND(0.005)	0.006	ND(0.005)	0.004	0.006
	01/25/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.006	ND(0.005)	0.005	0.008
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
dup.	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	ND(0.005)	0.006	ND(0.005)	ND(0.005)	ND(0.005)
	10/18/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.015	ND(0.005)	0.001	ND(0.005)	0.004	0.002
	01/10/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.003	ND(0.005)	ND(0.005)	ND(0.005)
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	07/21/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.012	0.001	0.001	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.012	0.001	0.002	ND(0.001)	0.001	ND(0.001)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.005	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.013	0.001	0.001	ND(0.001)	ND(0.001)	ND(0.001)
	10/28/98	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.013	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)
MW-17D	10/20/99	0.002	0.004	0.003	0.147	0.040	ND(0.001)	0.005	ND(0.001)	0.002	0.002
	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.062	ND(0.005)	0.018	0.012	0.019	0.014
	08/01/95	0.013	ND(0.005)	ND(0.005)	ND(0.005)	0.095	ND(0.005)	0.058	0.020	0.052	0.028
	10/18/95	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.067	ND(0.005)	0.044	0.015	0.047	0.054
	01/11/96	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.066	ND(0.005)	0.036	0.012	0.046	0.043
	01/11/96	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.050	ND(0.005)	0.032	0.009	0.036	0.039
#	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.064	ND(0.005)	0.046	0.009	0.049	0.032

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-17D Cont.	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.077	ND(0.005)	0.053	0.009	0.060	0.037
	10/22/96	0.007	ND(0.005)	ND(0.005)	ND(0.005)	0.066	ND(0.005)	0.041	ND(0.005)	0.059	0.033
	01/24/97	0.004	ND(0.001)	ND(0.001)	ND(0.002)	0.052	0.001	0.023	0.004	0.039	0.022
	04/09/97	0.003	ND(0.001)	ND(0.001)	ND(0.002)	0.030	ND(0.001)	0.020	0.003	0.026	0.022
	07/30/97	0.003	ND(0.002)	ND(0.002)	ND(0.004)	0.029	ND(0.002)	0.013	0.002	0.028	0.018
	10/17/97	0.004	ND(0.002)	ND(0.002)	ND(0.004)	0.056	ND(0.002)	0.015	0.001	0.038	0.011
	10/28/98	0.006	ND(0.005)	ND(0.005)	ND(0.01)	0.050	ND(0.005)	0.009	ND(0.005)	0.045	0.012
	10/19/99	0.005	ND(0.0025)	ND(0.0025)	ND(0.005)	0.091	ND(0.0025)	0.010	ND(0.0025)	0.038	0.012
MW-17A	04/03/95	0.009	ND(0.005)	ND(0.005)	ND(0.005)	0.079	ND(0.005)	0.061	0.029	0.025	0.066
	08/01/95	0.010	ND(0.005)	ND(0.005)	ND(0.005)	0.085	ND(0.005)	0.075	0.025	0.037	0.064
	10/18/95	0.009	ND(0.005)	ND(0.005)	ND(0.005)	0.073	ND(0.005)	0.059	0.019	0.041	0.090
dup.	10/18/95	0.010	ND(0.005)	ND(0.005)	ND(0.005)	0.078	ND(0.005)	0.059	0.019	0.042	0.086
	01/11/96	0.009	ND(0.005)	ND(0.005)	ND(0.005)	0.077	ND(0.005)	0.068	0.019	0.043	0.076
	04/13/96	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.075	ND(0.005)	0.069	ND(0.005)	0.051	0.065
#	07/22/96	0.008	ND(0.005)	ND(0.005)	ND(0.005)	0.076	ND(0.005)	0.069	0.012	0.051	0.077
	10/22/96	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.069	ND(0.005)	0.058	ND(0.005)	0.050	0.054
	01/24/97	0.006	ND(0.001)	ND(0.001)	0.001	0.058	ND(0.001)	0.044	0.007	0.045	0.049
	04/09/97	0.007	ND(0.001)	ND(0.001)	ND(0.002)	0.065	0.001	0.051	0.008	0.051	0.051
	07/30/97	0.004	ND(0.005)	ND(0.005)	ND(0.010)	0.051	ND(0.005)	0.045	0.004	0.045	0.062
	10/17/97	0.006	ND(0.005)	ND(0.005)	ND(0.010)	0.079	ND(0.005)	0.050	0.003	0.052	0.053
	10/28/98	0.009	ND(0.005)	ND(0.005)	ND(0.010)	0.075	ND(0.005)	0.018	ND(0.005)	0.044	0.033
	10/19/99	0.005	ND(0.0025)	ND(0.0025)	ND(0.005)	0.134	ND(0.0025)	0.018	ND(0.0025)	0.032	0.030
MW-17B	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.036	ND(0.005)	0.180	0.019	ND(0.005)	0.180
	08/01/95	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.040	ND(0.005)	0.190	0.020	0.026	0.180
dup.	08/01/95	0.008	ND(0.005)	ND(0.005)	ND(0.005)	0.049	ND(0.005)	0.250	0.023	0.030	0.320
	10/18/95	0.006	ND(0.005)	ND(0.005)	ND(0.005)	0.046	ND(0.005)	0.210	0.024	0.034	0.370
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.034	ND(0.005)	0.170	0.014	0.022	0.190
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.030	ND(0.005)	0.160	ND(0.005)	0.013	0.270
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.030	ND(0.005)	0.150	ND(0.005)	0.016	0.250
dup.	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.030	ND(0.005)	0.150	0.015	0.016	0.280
	10/22/96	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.01)	0.038	ND(0.01)	0.190	ND(0.01)	0.030	0.250
	01/24/97	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.038	0.001	0.110	0.008	0.019	0.070
	04/09/97	0.004	ND(0.002)	ND(0.002)	ND(0.004)	0.035	0.001	0.115	0.005	0.021	0.132
	07/30/97	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	0.026	ND(0.005)	0.080	0.004	0.017	0.141
	10/17/97	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.053	ND(0.01)	0.103	ND(0.01)	0.027	0.149
	10/28/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.073	ND(0.01)	0.072	ND(0.01)	0.045	0.178
	10/19/99	0.005	0.012	ND(0.0025)	ND(0.005)	0.143	ND(0.0025)	0.053	0.005	0.051	0.059
MW-17C *	04/03/95	0.032	0.060	0.005	0.054	0.058	ND(0.005)	0.099	ND(0.005)	0.091	0.013
2nd *	04/03/95	0.034	0.057	ND(0.005)	0.045	0.063	ND(0.005)	0.110	ND(0.005)	0.095	0.017
	08/01/95	0.022	0.047	ND(0.005)	ND(0.005)	0.073	ND(0.005)	0.140	ND(0.005)	0.120	0.012
	10/18/95	0.019	0.026	ND(0.005)	ND(0.005)	0.063	0.003	0.120	ND(0.005)	0.140	0.024
	01/11/96	0.020	0.035	ND(0.005)	ND(0.005)	0.058	ND(0.005)	0.120	ND(0.005)	0.120	0.015
	04/13/96	0.011	0.009	ND(0.005)	ND(0.005)	0.057	ND(0.005)	0.130	ND(0.005)	0.100	0.013
#	07/22/96	0.016	ND(0.005)	ND(0.005)	ND(0.005)	0.058	ND(0.005)	0.130	ND(0.005)	0.120	0.014
	10/22/96	0.015	ND(0.005)	ND(0.005)	ND(0.005)	0.045	ND(0.005)	0.120	ND(0.005)	0.100	0.012
	01/24/97	0.009	ND(0.001)	ND(0.001)	ND(0.002)	0.051	0.003	0.099	ND(0.001)	0.078	0.005
	04/09/97	0.011	ND(0.002)	ND(0.002)	ND(0.004)	0.049	0.002	0.105	ND(0.002)	0.100	0.008
	07/30/97	0.010	ND(0.005)	ND(0.005)	ND(0.010)	0.043	0.003	0.093	ND(0.005)	0.097	0.010

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-17C Cont.	10/17/97	0.031	ND(0.01)	ND(0.01)	ND(0.02)	0.066	0.003	0.115	ND(0.01)	0.086	0.013
	10/28/98	0.011	ND(0.01)	ND(0.01)	ND(0.02)	0.050	ND(0.01)	0.105	ND(0.01)	0.110	0.018
	10/19/99	0.023	ND(0.0025)	0.002	ND(0.005)	0.080	0.003	0.160	ND(0.0025)	0.119	0.040
MW-18	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.017	ND(0.005)	0.093	ND(0.005)	0.034	0.071
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.024	ND(0.005)	0.170	ND(0.005)	0.039	0.087
	10/18/95	0.003	ND(0.005)	ND(0.005)	ND(0.005)	0.018	ND(0.005)	0.150	ND(0.005)	0.042	0.130
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.017	ND(0.005)	0.130	ND(0.005)	0.037	0.097
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.016	ND(0.005)	0.170	ND(0.005)	0.034	0.120
Dup.	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.018	ND(0.005)	0.200	ND(0.005)	0.043	0.110
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.170	ND(0.005)	0.043	0.120
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.020	ND(0.005)	0.190	ND(0.005)	0.042	0.120
	01/24/97	0.003	ND(0.001)	ND(0.001)	ND(0.002)	0.024	0.001	0.180	0.002	0.047	0.097
	04/09/97	0.003	ND(0.001)	ND(0.001)	ND(0.002)	0.022	0.001	0.155	0.002	0.044	0.116
	07/30/97	0.002	ND(0.002)	ND(0.002)	ND(0.004)	0.020	ND(0.002)	0.140	0.001	0.044	0.121
	10/17/97	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.028	ND(0.001)	0.157	ND(0.001)	0.044	0.071
	01/07/98	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.029	ND(0.001)	0.163	ND(0.001)	0.054	0.133
	04/15/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.029	ND(0.01)	0.155	ND(0.01)	0.053	0.145
	07/18/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.030	ND(0.01)	0.146	ND(0.01)	0.052	0.151
	10/28/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.028	ND(0.01)	0.142	ND(0.01)	0.052	0.149
	02/09/99	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.01)	0.030	ND(0.005)	0.143	ND(0.005)	0.052	0.148
	04/22/99	0.002	ND(0.0025)	ND(0.0025)	ND(0.005)	0.031	ND(0.0025)	0.135	ND(0.0025)	0.045	0.121
	07/14/99	0.002	ND(0.0025)	ND(0.0025)	ND(0.005)	0.028	ND(0.0025)	0.127	ND(0.0025)	0.042	0.120
	10/19/99	0.002	ND(0.0025)	0.002	ND(0.005)	0.034	ND(0.0025)	0.149	ND(0.0025)	0.049	0.128
MW-19	04/03/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.011	ND(0.005)	0.150	ND(0.005)	ND(0.005)	0.110
	08/01/95	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.014	ND(0.005)	0.170	ND(0.005)	ND(0.005)	0.140
	10/18/95	0.002	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	0.170	ND(0.005)	0.004	0.150
	01/11/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.010	ND(0.005)	0.110	ND(0.005)	ND(0.005)	0.100
	04/13/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.150	ND(0.005)	ND(0.005)	0.100
	07/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.009	ND(0.005)	0.130	ND(0.005)	ND(0.005)	0.110
	10/22/96	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.008	ND(0.005)	0.130	ND(0.005)	ND(0.005)	0.094
	01/24/97	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.009	ND(0.001)	0.122	0.001	0.003	0.093
	04/09/97	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.010	ND(0.001)	0.116	0.001	0.004	0.087
	07/30/97	0.002	ND(0.002)	ND(0.002)	ND(0.004)	0.009	ND(0.002)	0.116	ND(0.002)	0.005	0.096
	10/17/97	0.003	ND(0.01)	ND(0.01)	ND(0.02)	0.010	ND(0.01)	0.124	ND(0.01)	0.007	0.066
	10/28/98	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.02)	0.017	ND(0.01)	0.167	ND(0.01)	0.009	0.150
	04/22/99	0.003	ND(0.0025)	ND(0.0025)	ND(0.005)	0.023	ND(0.0025)	0.212	ND(0.0025)	0.009	0.182
	10/19/99	0.004	ND(0.005)	ND(0.005)	ND(0.01)	0.020	ND(0.005)	0.236	ND(0.005)	0.010	0.203
MW-20	11/20/96	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/07/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/15/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/28/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	02/09/99	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)

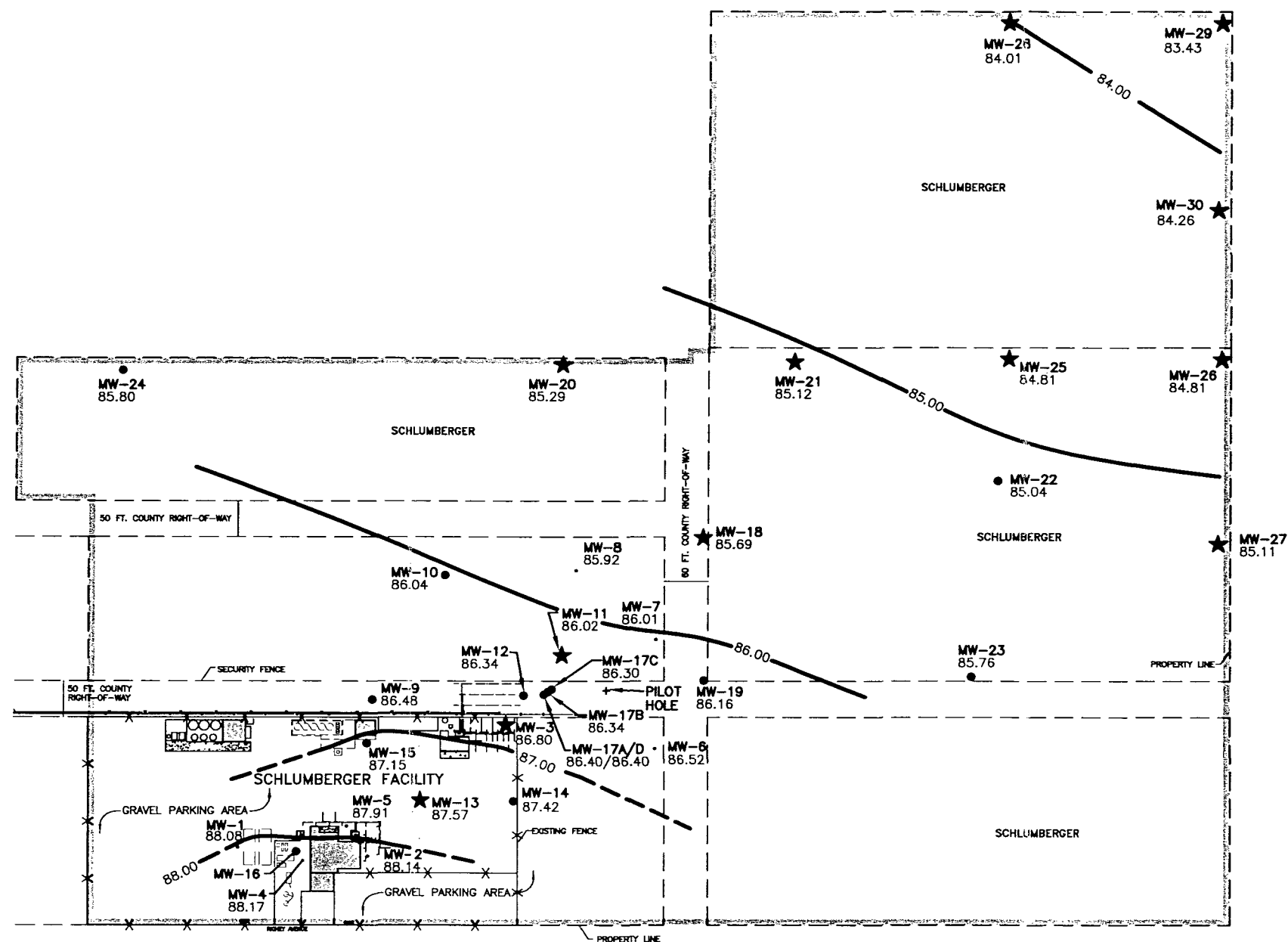
TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-20 Cont.	07/13/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/19/99	ND(0.001)	ND(0.001)	0.002	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-21	11/20/96	0.002	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.012	ND(0.001)	0.003	0.006
	01/24/97	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	0.019	ND(0.001)	0.004	0.006
	03/04/97	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	0.025	ND(0.001)	0.007	0.011
	04/09/97	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.003	ND(0.002)	0.021	ND(0.002)	0.005	0.008
	07/30/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.001	ND(0.002)	0.011	ND(0.002)	0.003	0.007
	10/17/97	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.001	ND(0.002)	0.007	ND(0.002)	0.001	0.004
	01/07/98	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.002	ND(0.002)	0.021	ND(0.002)	0.003	0.005
	04/15/98	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.002	ND(0.002)	0.028	ND(0.002)	0.003	0.006
	07/18/98	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.002	ND(0.002)	0.022	ND(0.002)	0.002	0.005
	10/28/98	0.001	ND(0.002)	ND(0.002)	ND(0.004)	0.001	ND(0.002)	0.015	ND(0.002)	0.001	0.004
	02/09/99	0.001	ND(0.001)	ND(0.001)	ND(0.002)	0.002	ND(0.001)	0.031	ND(0.001)	0.002	0.005
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	0.025	ND(0.001)	0.001	0.003
	07/14/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	0.009	ND(0.001)	ND(0.001)	0.002
	10/19/99	ND(0.001)	ND(0.001)	0.002	ND(0.002)	ND(0.001)	ND(0.001)	0.006	ND(0.001)	ND(0.001)	0.001
MW-22	11/20/96	0.014	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.063	ND(0.001)	0.012	0.053
dup.	01/24/97	0.010	ND(0.001)	ND(0.001)	ND(0.002)	0.009	ND(0.001)	0.065	ND(0.001)	0.013	0.050
	01/24/97	0.011	ND(0.001)	ND(0.001)	ND(0.002)	0.011	ND(0.001)	0.099	ND(0.001)	0.013	0.065
	04/09/97	0.013	ND(0.001)	ND(0.001)	ND(0.002)	0.014	0.001	0.084	ND(0.001)	0.021	0.080
	07/30/97	0.014	ND(0.002)	ND(0.002)	ND(0.004)	0.012	ND(0.002)	0.092	ND(0.002)	0.024	0.104
	10/17/97	0.016	ND(0.005)	ND(0.005)	ND(0.01)	0.014	ND(0.005)	0.107	ND(0.005)	0.028	0.117
	10/28/98	0.016	ND(0.01)	ND(0.01)	ND(0.02)	0.017	ND(0.01)	0.129	ND(0.01)	0.037	0.150
	04/22/99	0.017	ND(0.0025)	ND(0.0025)	ND(0.005)	0.024	ND(0.0025)	0.185	ND(0.0025)	0.053	0.184
	10/19/99	0.019	ND(0.005)	0.002	ND(0.01)	0.026	ND(0.005)	0.200	ND(0.005)	0.056	0.207
MW-23	11/20/96	ND(0.001)	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	03/04/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/28/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/19/99	ND(0.001)	ND(0.001)	0.002	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-24	11/20/96	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/28/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/19/99	ND(0.001)	ND(0.001)	0.003	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-25	03/04/97	0.021	ND(0.001)	ND(0.001)	ND(0.001)	0.014	0.001	0.035	ND(0.001)	ND(0.001)	0.030
dup.	04/09/97	0.015	ND(0.001)	ND(0.001)	ND(0.002)	0.015	0.001	0.035	ND(0.001)	0.006	0.020
	04/09/97	0.014	ND(0.001)	ND(0.001)	ND(0.002)	0.015	0.001	0.034	ND(0.001)	0.005	0.019
	07/30/97	0.023	ND(0.002)	ND(0.002)	ND(0.004)	0.011	0.001	0.031	ND(0.002)	0.005	0.035

TABLE 2. SUMMARY OF LABORATORY ANALYTICAL RESULTS - GROUND-WATER SAMPLES,
SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

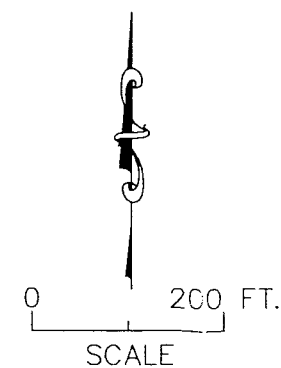
WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)
MW-25 Cont. dup.	10/17/97	0.026	ND(0.002)	ND(0.002)	ND(0.004)	0.011	0.001	0.027	ND(0.002)	0.004	0.035
	10/17/97	0.026	ND(0.002)	ND(0.002)	ND(0.004)	0.013	0.001	0.028	ND(0.002)	0.004	0.028
	01/07/98	0.027	ND(0.002)	ND(0.002)	ND(0.004)	0.014	0.001	0.030	ND(0.002)	0.004	0.033
	04/15/98	0.025	ND(0.002)	ND(0.002)	ND(0.004)	0.013	ND(0.002)	0.028	ND(0.002)	0.004	0.034
	07/18/98	0.022	ND(0.002)	ND(0.002)	ND(0.004)	0.012	ND(0.002)	0.024	ND(0.002)	0.004	0.026
	10/28/98	0.030	ND(0.002)	ND(0.002)	ND(0.004)	0.012	ND(0.002)	0.030	ND(0.002)	0.005	0.038
	02/09/99	0.027	ND(0.001)	ND(0.001)	ND(0.002)	0.013	ND(0.001)	0.031	ND(0.001)	0.003	0.039
	04/22/99	0.030	ND(0.001)	ND(0.001)	ND(0.002)	0.013	ND(0.001)	0.031	ND(0.001)	0.002	0.032
	07/14/99	0.022	ND(0.001)	ND(0.001)	ND(0.002)	0.012	ND(0.001)	0.027	ND(0.001)	0.004	0.028
	10/19/99	0.025	ND(0.001)	0.002	ND(0.002)	0.012	ND(0.001)	0.027	ND(0.001)	0.004	0.027
MW-26 dup.	03/04/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	03/04/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	0.004	ND(0.001)	0.001	0.002
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	0.004	ND(0.001)	0.001	0.004
	01/07/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.001	ND(0.001)	0.006	ND(0.001)	0.001	0.006
	04/15/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.002	ND(0.001)	0.013	ND(0.001)	0.002	0.011
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	0.011	ND(0.001)	0.002	0.013
	10/27/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	0.010	ND(0.002)	0.002	0.014
	02/09/99	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.001)	0.003	ND(0.0005)	0.008	ND(0.0005)	0.002	0.011
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.003	ND(0.001)	0.010	ND(0.001)	0.002	0.010
MW-27	07/13/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	0.004	ND(0.001)	0.013	ND(0.001)	0.002	0.014
	10/19/99	0.001	ND(0.001)	0.003	ND(0.002)	0.006	ND(0.001)	0.018	ND(0.001)	0.003	0.018
	03/04/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/09/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/30/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/07/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	04/15/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/27/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	02/09/99	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.001)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
MW-28	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/13/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/19/99	ND(0.001)	ND(0.001)	0.003	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/15/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/18/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/27/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	02/09/99	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.001)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)
	04/22/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/13/99	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/19/99	ND(0.001)	ND(0.001)	0.002	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-29	04/15/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	07/18/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
	10/27/98	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	02/09/99	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.001)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)	ND(0.0005)

FIGURES



EXPLANATION

- MW-12
86.34 WWC MONITORING WELL LOCATION, IDENTIFICATION, AND POTENTIOMETRIC SURFACE
- MW-6
86.52 REED AND ASSOCIATES MONITORING WELL LOCATION, IDENTIFICATION, AND POTENTIOMETRIC SURFACE
- ★ MONITORING WELLS TO BE SAMPLED QUARTERLY
- 86.00 — POTENTIOMETRIC SURFACE CONTOUR (DASHED WHERE INFERRED)
- TBM TEMPORARY BENCH MARK
- AIR PIPING
- SVE EXTRACTION WELL

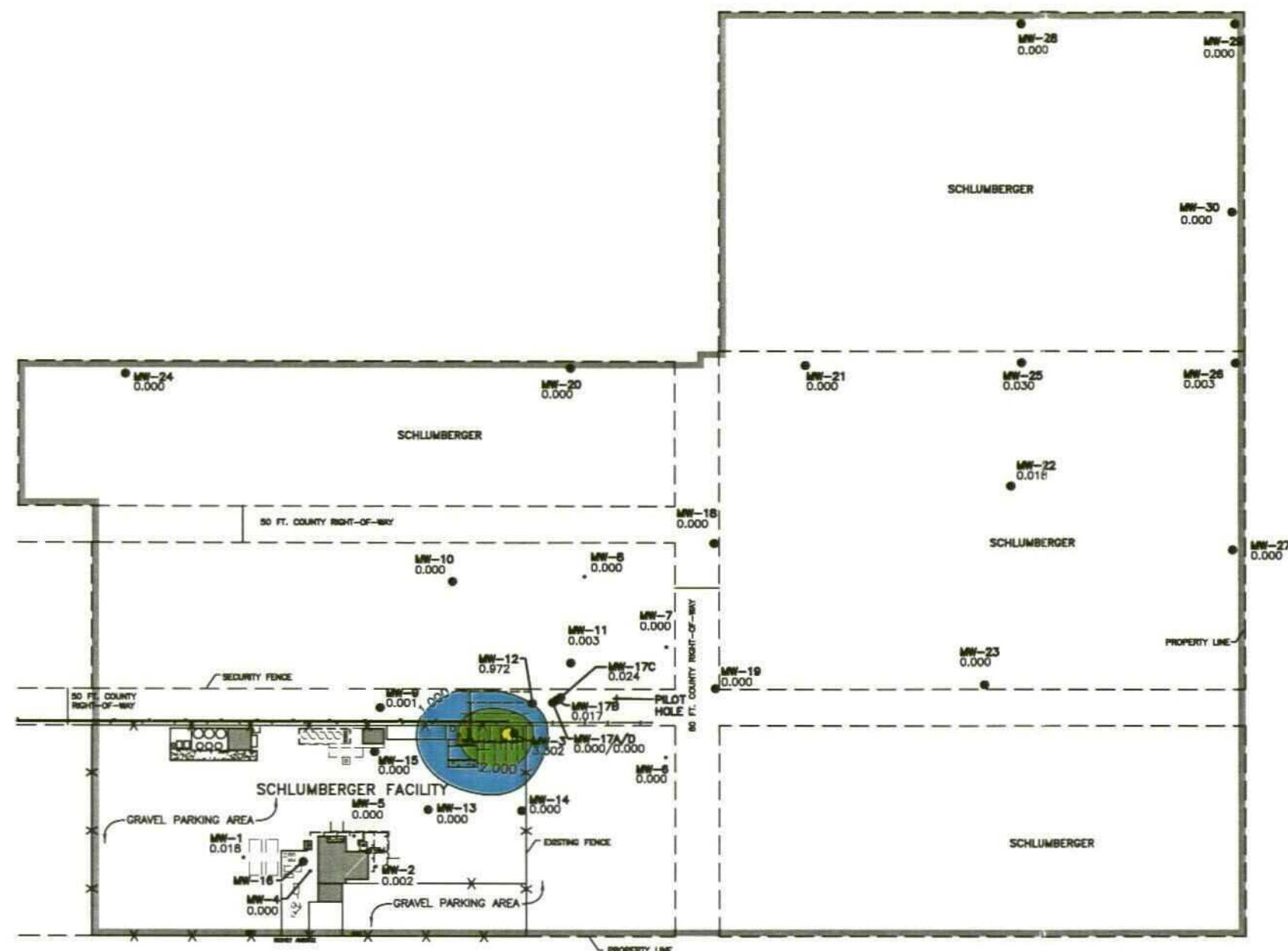


BASE MAP MODIFIED FROM REED & ASSOCIATES

FIGURE 1
SITE MAP WITH
POTENTIOMETRIC SURFACE
(10/19/00)

SCHLUMBERGER OILFIELD SERVICES
ARTESIA, NEW MEXICO

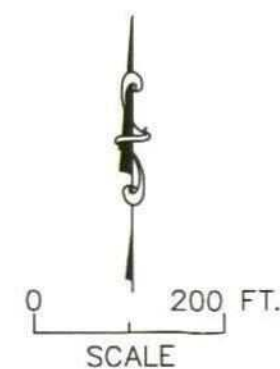
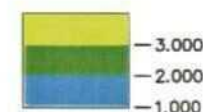
WWC Engineering
Civil Environmental Mining Water Resources



EXPLANATION

- MW-12 1.895 WWC MONITORING WELL LOCATION AND IDENTIFICATION ISOCONCENTRATION FOR TOTAL BTEX
- MW-6 ND REED AND ASSOCIATES MONITORING WELL LOCATION AND IDENTIFICATION ISOCONCENTRATION FOR TOTAL BTEX
- TBM TEMPORARY BENCH MARK
- AIR PIPING
- SVE EXTRACTION WELL

ISOCONCENTRATION FOR TOTAL BTEX



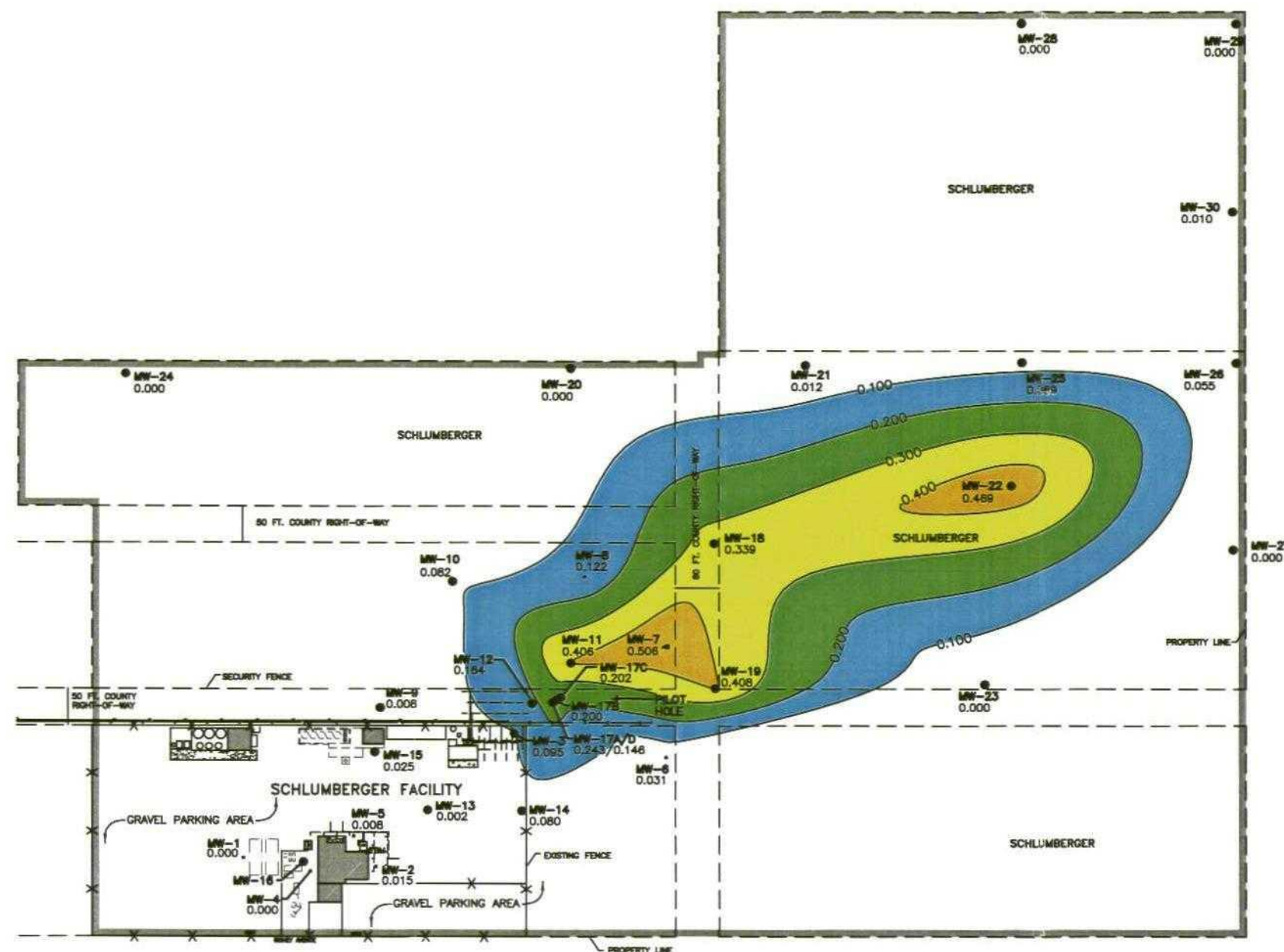
BASE MAP MODIFIED FROM REED & ASSOCIATES

FIGURE 2
ISOCONCENTRATION MAP FOR
TOTAL BTEX
(10/19/00)

SCHLUMBERGER OILFIELD SERVICES
ARTESIA, NEW MEXICO



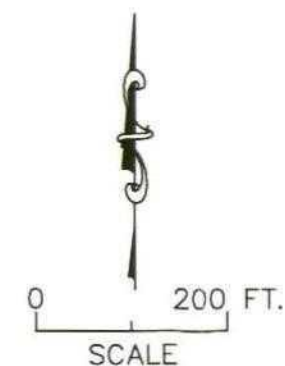
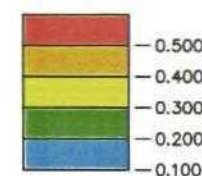
Civil Environmental Mining Water Resources



EXPLANATION

- MW-12 1.895 WWC MONITORING WELL LOCATION AND IDENTIFICATION
ISOCONCENTRATION FOR TOTAL HALOCARBONS
- MW-6 ND REED AND ASSOCIATES MONITORING WELL LOCATION AND IDENTIFICATION
ISOCONCENTRATION FOR TOTAL HALOCARBONS
- TBM TEMPORARY BENCH MARK
- AIR PIPING
- SVE EXTRACTION WELL

ISOCONCENTRATION FOR TOTAL HALOCARBONS

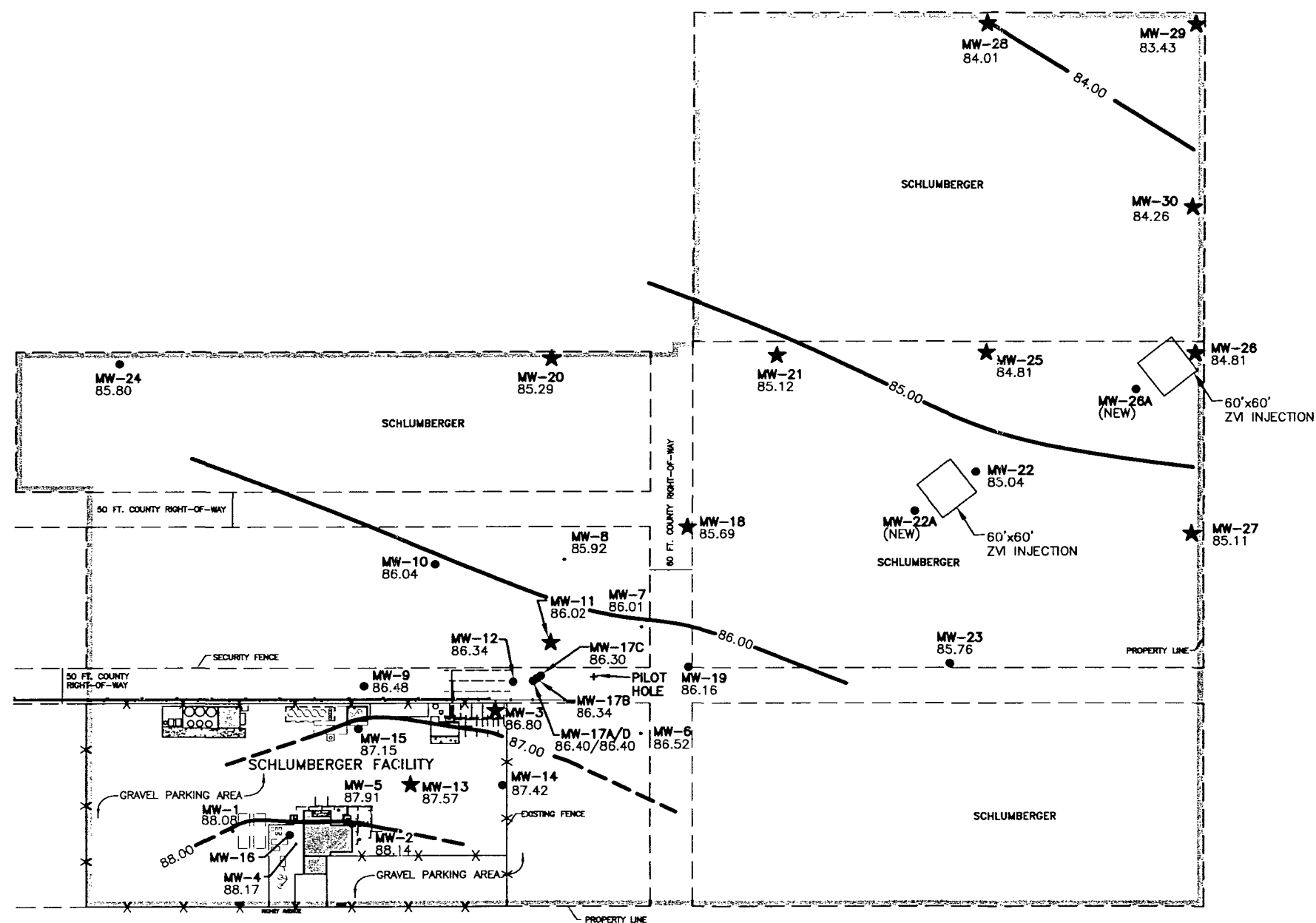


BASE MAP MODIFIED FROM REED & ASSOCIATES

FIGURE 3
ISOCONCENTRATION MAP FOR
TOTAL HALOCARBONS
(10/19/00)

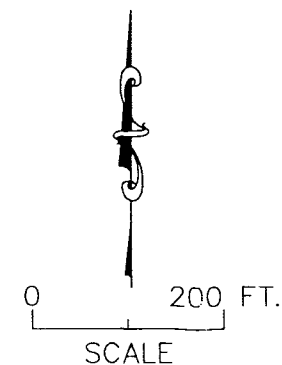
SCHLUMBERGER OILFIELD SERVICES
ARTESIA, NEW MEXICO

WWC Engineering
Civil Environmental Mining Water Resources



EXPLANATION

- MW-12 86.34 WWC MONITORING WELL LOCATION, IDENTIFICATION, AND POTENTIOMETRIC SURFACE
- MW-6 86.52 REED AND ASSOCIATES MONITORING WELL LOCATION, IDENTIFICATION, AND POTENTIOMETRIC SURFACE
- ★ MONITORING WELLS TO BE SAMPLED QUARTERLY
- 86.00 — POTENTIOMETRIC SURFACE CONTOUR (DASHED WHERE INFERRED)
- TBM TEMPORARY BENCH MARK
- AIR PIPING
- SVE EXTRACTION WELL



BASE MAP MODIFIED FROM REED & ASSOCIATES

FIGURE 4

ZVI INJECTION

SCHLUMBERGER OILFIELD SERVICES
ARTESIA, NEW MEXICO



Civil Environmental Mining Water Resources

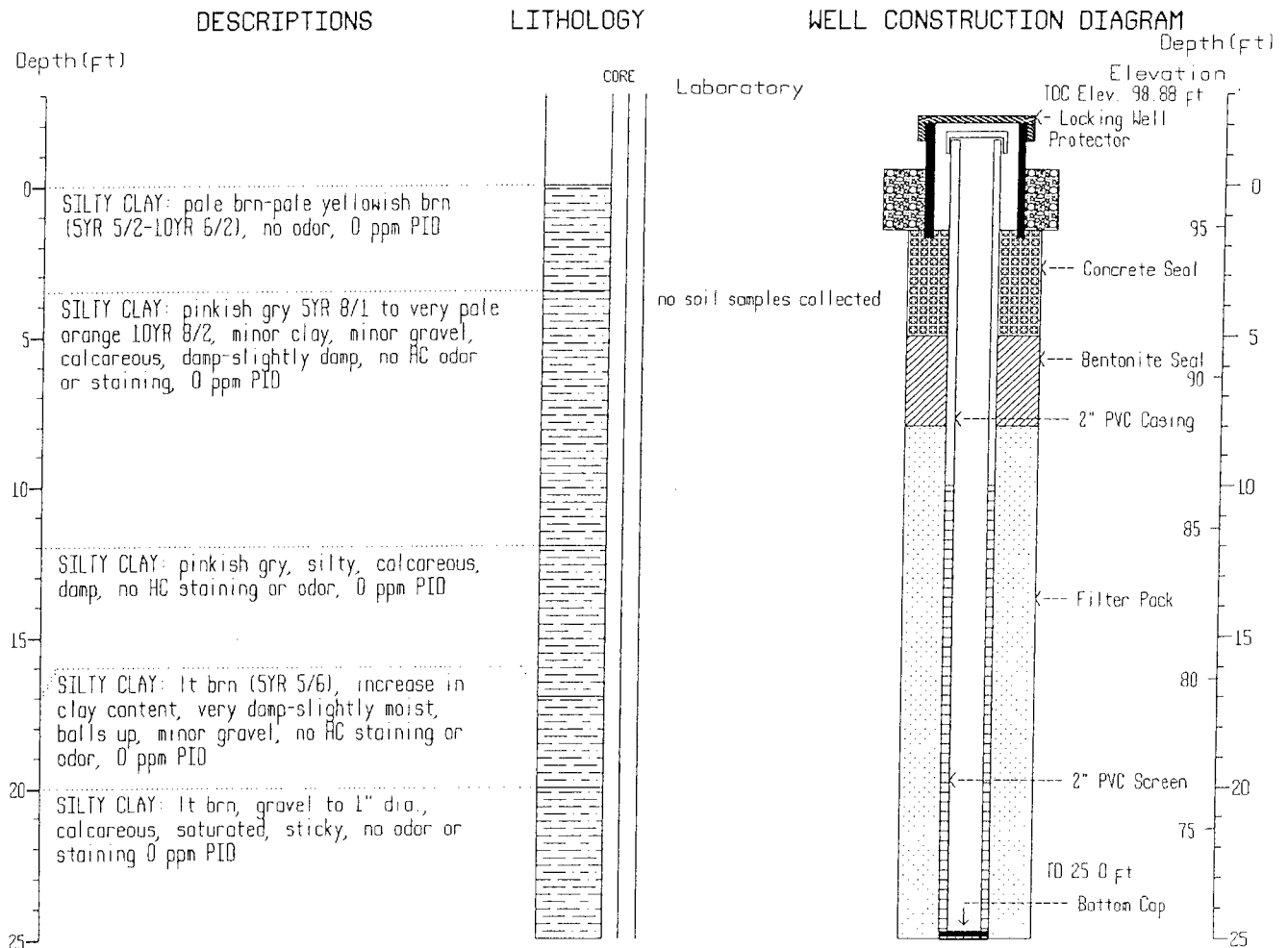
APPENDIX A

WELL LOGS

MONITORING WELL MW-25

LOCATION: Dowell Schlumberger, Artesia, New Mexico
 North of MW-22
 T17S, R26E, Sec 4, SE 1/4, SW 1/4
 LOG: Western Water Consultants Inc. (Kevin Mattson)
 DRILLER: Scarborough Drilling (Lane Scarborough)
 STATE ENGINEER NO: NA
 INSTALLATION DATE: March 3, 1997

WELL OWNER: Dowell Schlumberger Inc. (JN 90-125)
 DRILLING METHOD: Air Rotary, 5 0" OD
 CASING: 2" Dia. Flush Joint Sch. 40 PVC
 SCREEN: Slotted Casing; 0.020 Inch Slots
 FILTER PACK: 8/16 Mesh Silica Sand
 WATER TABLE ELEVATION: NA
 (Reference Datum: Arbitrary = 100.00 feet)



SILTY CLAY: pale brn-pale yellowish brn
 (SYR 5/2-10YR 6/2), no odor, 0 ppm PID

SILTY CLAY: pinkish gry SYR 8/1 to very pale
 orange 10YR 8/2, minor clay, minor gravel,
 calcareous, damp-slightly damp, no HC odor
 or staining, 0 ppm PID

SILTY CLAY: pinkish gry, silty, calcareous,
 damp, no HC staining or odor, 0 ppm PID

SILTY CLAY: lt brn (SYR 5/6), increase in
 clay content, very damp-slightly moist,
 balls up, minor gravel, no HC staining or
 odor, 0 ppm PID

SILTY CLAY: lt brn, gravel to 1" dia.,
 calcareous, saturated, sticky, no odor or
 staining 0 ppm PID

MONITORING WELL MW-26

LOCATION: Dowell Schlumberger, Artesia, New Mexico

Very northeast corner of property

T17S, R26E, Sec 4, SE 1/4, SW 1/4

LOG: Western Water Consultants Inc. (Kevin Mattson)

DRILLER: Scarborough Drilling (Lane Scarborough)

STATE ENGINEER NO: NA

INSTALLATION DATE: March 3, 1997

WELL OWNER: Dowell Schlumberger Inc. (JN 90-125)

DRILLING METHOD: Air Rotary, 5 0" OD

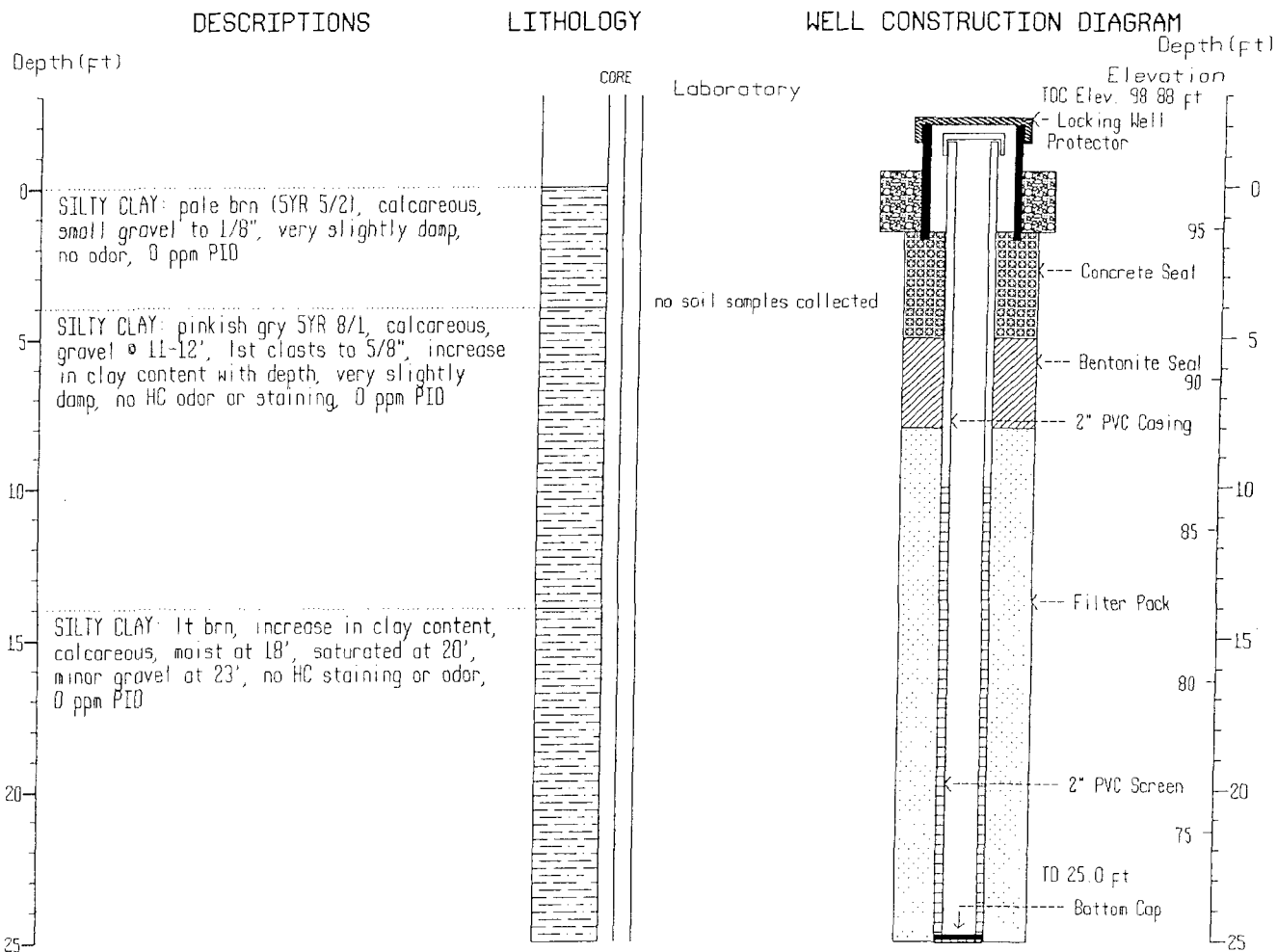
CASING: 2" Dia. Flush Joint Sch 40 PVC

SCREEN: Slotted Casing; 0.020 Inch Slots

FILTER PACK: 8/16 Mesh Silica Sand

WATER TABLE ELEVATION: NA

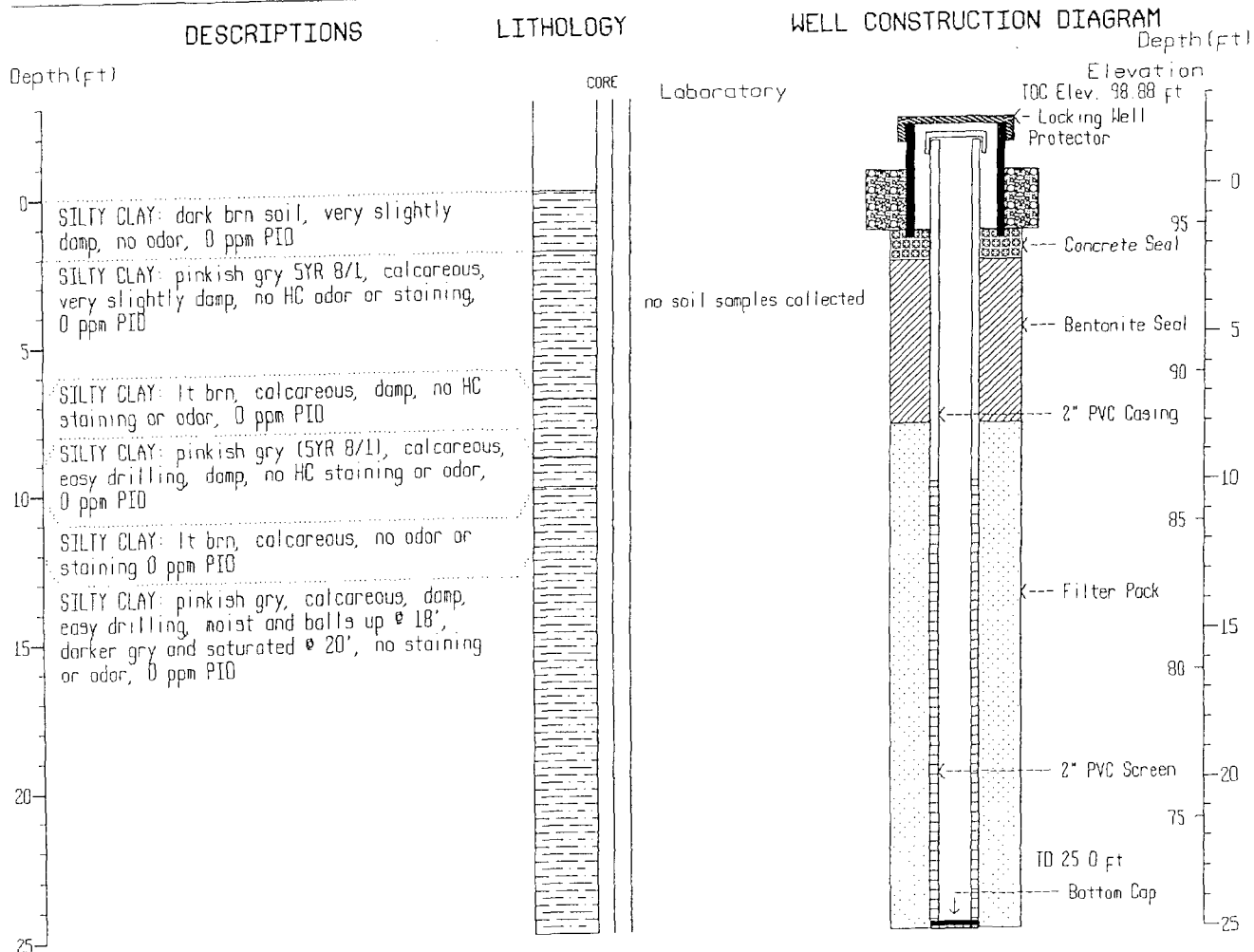
(Reference Datum: Arbitrary = 100.00 feet)



MONITORING WELL MW-27

LOCATION: Dowell Schlumberger, Artesia, New Mexico
 Along the east property line near the northeast corner
 T17S, R26E, Sec 4, SE 1/4, SW 1/4
 LOG: Western Water Consultants Inc. (Kevin Mattson)
 DRILLER: Scarborough Drilling (Lane Scarborough)
 STATE ENGINEER NO: NA
 INSTALLATION DATE: March 3, 1997

WELL OWNER: Dowell Schlumberger Inc (JUN 90-125)
 DRILLING METHOD: Air Rotary, 5.0" OD
 CASING: 2" Dia Flush Joint Sch. 40 PVC
 SCREEN: Slotted Casing; 0.020 Inch Slots
 FILTER PACK: 8/16 Mesh Silica Sand
 WATER TABLE ELEVATION: NA
 (Reference Datum: Arbitrary = 100.00 feet)



MONITORING WELL MW-28

LOCATION: Dowell Schlumberger, Artesia, New Mexico

Along property line fence north of MW-25

T17S, R26E, Sec 4, NE 1/4, SW 1/4

LOG: Western Water Consultants Inc. (Kevin Mattson)

DRILLER: Scarborough Drilling (Lane Scarborough)

STATE ENGINEER NO. NA

INSTALLATION DATE: April 14, 1998

WELL OWNER: Dowell Schlumberger Inc (JN 90-125)

DRILLING METHOD: Air Rotary, 5 1/4" OD

CASING 2" Dia Flush Joint Sch 40 PVC

SCREEN: Slotted Casing; 0 020 Inch Slots

FILTER PACK: 8/16 Mesh Silica Sand

WATER TABLE ELEVATION: NA

(Reference Datum: Arbitrary = 100.00 feet)

