

GW - 114

MONITORING REPORTS

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**QUARTERLY AND ANNUAL REPORT
DOWELL, A DIVISION OF
SCHLUMBERGER TECHNOLOGY CORPORATION
HOBBS, NEW MEXICO**

February 27, 1998

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- C – Isoconcentration Map and Plots

1.0 INTRODUCTION

1.0 INTRODUCTION

This report documents remedial activities performed in 1997 at the Dowell, a division of Schlumberger Technology Corporation facility in Hobbs, New Mexico. Field work conducted by Western Water Consultants, Inc. (WWC) during the 4 quarters of 1997 consisted of air and ground-water monitoring, ground-water and remediation well installation, and remediation system modifications and systems operation. Fourth quarter analytical data is included in this report. Analytical data for the first three quarters of 1997 are presented in the reports dated March 31, 1997, July 3, 1997, and September 8, 1997. In addition, a report dated August 5, 1997 was submitted detailing soil vapor extraction (SVE) system modifications.

2.0 DRILLING

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From May 10 - 27, 1997, 6 additional 2-inch diameter ground-water monitoring wells (MW-10 - MW-15) were installed to investigate the condition of the groundwater (Figure 1). An air rotary drill rig with a 5 1/8-inch diameter bit was used to drill the wells. Total depths of the wells ranged from 85 to 208 feet below ground surface. To eliminate the potential for adverse impacts between wells, drilling equipment was decontaminated prior to beginning each well.

2.1 Monitoring Well Installation

Monitoring well MW-11 was drilled as an exploratory boring to investigate the lithology of the middle and lower sections of the Ogallala Aquifer. Drilling was terminated when the Chinle Formation locally referred to as the "red beds" were contacted. The investigation was conducted specifically to determine if a hard siliceous sandstone encountered when drilling wells in other areas of Hobbs was also present beneath the facility. To prevent impacts to the deeper section of the aquifer, MW-11 was drilled up-gradient of any source areas.

An indurated siliceous sandstone was encountered when drilling MW-11 at 131 feet below ground surface (Figure 2). Surface casing was installed through the sandstone layer and grouted in place prior to drilling down to the "red beds". This approach was taken to isolate the deeper aquifer if the sandstone was acting as an aquitard. MW-11 was completed with 10 feet of screen installed in the basal gravel of the Ogallala Aquifer. The total depth of the well was 208 feet at the Ogallala and "red bed" contact.

The same sandstone present in MW-11 at 131' was also found in MW-10 at approximately the same depth. MW-10 was completed with 10 feet of 20 slot screen set on top of the sandstone (Figures 2 and 3). The installation of MW-10 allows ground-water quality to be collected above the sandstone and compared against water quality in MW-11 from the base of the aquifer.

Monitoring wells MW-12 through MW-15 were installed to determine the lateral extent of ground-water contamination (Figure 1). Total depths of the monitoring wells range from 83 to 85 feet below ground surface. The top of casing elevations for all monitoring wells were tied into "the City of Hobbs Control Datum" and the North American Vertical Datum. Lithologic and well completion data are illustrated on well logs in Appendix A.

2.2 Lithology

Drill cuttings were logged by a WWC geologist for sediment type, grain size, color, structure, moisture, and hydrocarbon contamination. The upper 130 feet of lithology was consistent with other areas where drilling was performed. Sandstones become more numerous with depth and are weak to moderately indurated. The lithology from 130 to 208 feet consists of a few well indurated sandstones (131' and 158'), clay and sandy clays, and sand and gravel at the base. The "red beds" were a soft red to reddish brown clay. Lithologic logs are presented in Appendix A.

2.3 Field Screening

The presence or absence of hydrocarbon contamination was determined by visual and olfactory inspection of the cuttings and by screening with an Environmental Instruments 580D photoionization detector (PID) during logging. Evidence of hydrocarbon impact was not observed or detected with the PID during the drilling process.

2.4 Soil Vapor Extraction and Air Sparge Well Installation

WWC supervised the drilling and installation of 5 deep SVE wells and 6 air sparge wells from May 10 – 27, 1997 (Figure 4.). The deep SVE wells were completed with 2 inch diameter Schedule 40 PVC casing and 25 feet of 20 slot screen. Total depths of the wells were 70 feet below ground surface.

The air sparge wells were completed with 1 inch diameter Schedule 80 PVC casing, 1 foot of 20 slot screen, and a 9/16 silica sand filter pack. Total depths ranged from 83 – 85 feet below ground surface. Well completion diagrams for the SVE and air sparge wells are provided as Appendix A.

2.5 Waste Water and Drill Cuttings Disposal

Purge water from well development and fluids produced during drilling were collected and stored in a frac tank on site. Drill cuttings were also collected and stockpiled on site. Samples were collected from the frac tank and stockpiled soil for characterization prior to disposal. The samples were analyzed by the toxicity characteristic leaching procedure (TCLP) for volatile and semi-volatile organics, metals, and RCRA characteristics. Results of the laboratory analysis determined the water and soil were nonhazardous. Authorization was granted by the NMOCD to dispose of the water and cuttings at the Controlled Recovery Incorporated facility near Hobbs. Laboratory data reports for the analyses are presented in Appendix B.

3.0 GROUND-WATER MONITORING

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Ground-water monitoring was performed 4 times in 1997 by WWC personnel. The fourth quarter monitoring event was performed October 15 - 16, 1997. Results of the previous sampling events for 1997 were presented in reports to the NMOCD dated March 31, 1997, July 3, 1997, and September 8, 1997.

3.1 Static Water Level

Static water levels were measured 3-4 times in 1997 from all new and existing monitoring wells with an oil/water interface probe. The latest water level measurements are presented in Table 1 along with historic water level data for comparison. The probe was decontaminated between wells with Simple Green and a distilled water rinse.

A map of the potentiometric surface generated from the 4th quarter water level elevations is depicted on Figure 5. The ground-water flow direction is to the northeast with a hydraulic gradient of 0.005 which is consistent with earlier determinations of ground-water flow.

3.2 Ground-water Sampling

Ground-water samples were collected from all new and existing wells during quarterly monitoring events in 1997. Three well volumes of ground-water were purged from each well using a submersible pump. Purge water was placed into two galvanized steel stock tanks on site and allowed to evaporate. The submersible pump was decontaminated with a Simple Green solution and clean water rinse between wells.

Samples were collected using disposable polyethylene bailers after the well was purged. Ground-water samples were analyzed for volatile organic compounds by EPA Method 8260. During the fourth quarter monitoring event duplicate samples were collected from MW-4 and MW-15. The analytical results for the fourth quarter monitoring event are provided in Table 2 along with historical data for comparison. Laboratory analytical reports are presented in Appendix B.

4.0 REMEDIATION SYSTEM MODIFICATIONS

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The week of June 23 – 26, 1997, WWC connected 5 deep and 2 shallow SVE wells into the existing systems. Three deep SVE wells were plumbed into the existing system in the former UST area and 2 deep SVE wells were plumbed into the existing system in the former waste water collection area. In addition, 2 shallow SVE wells (1-8 and 1-9) were plumbed into the former waste water collection area system and the acid dock system. These shallow SVE wells were installed in 1995 and were plumbed in now to expand the coverage of the present systems.

All piping connecting the SVE wells is 2-inch Schedule 40 PVC. SVE wells in the former waste water pond and acid dock area remain connected to internal combustion AcuVac units. The AcuVac unit in the former UST area was replaced with an electric blower. The layout of the piping in each of the 3 SVE areas are presented on Figures 6, 7, and 8. The piping in each of the areas was buried and routed to avoid obstacles or avoid cutting concrete or asphalt.

The air sparge wells (AS-1 to AS-6) were connected to a new 10 horsepower blower at the former UST SVE system during the week of October 13 – 17, 1997. The layout of the piping is presented on Figure 6. Piping connecting the air sparge wells is 2-inch Schedule 40 PVC. All of the piping was buried to prevent damage from traffic.

4.1 SVE Systems Operations

Air samples were collected from the 3 SVE systems 4 to 5 times during the 1997 year. Time lines are provided (Figures 9, 10, and 11) which document when samples were collected, system shut downs for routine maintenance, or when systems were shut down for repairs since startup periods. Air quality results are provided in Table 3. Laboratory data reports are presented as part of Appendix B.

5.0 RESULTS AND DISCUSSION

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As shown on Table 2, concentrations of volatile aromatic and chlorinated hydrocarbons in most monitoring wells were within the range of historic concentration variations. Over the past 2 sampling events of 1997 halocarbon and BTEX concentrations in MW-2 have declined slightly. Total halocarbons concentrations have also steadily declined in MW-4 since November of 1996. Low contaminant levels continue to be detected in MW-13 but are absent in both MW-14 and MW-15. The difference between contaminant concentrations in MW-8 and MW-10 indicates the possibility of a separate free phase product layer occurring with depth as unlikely.

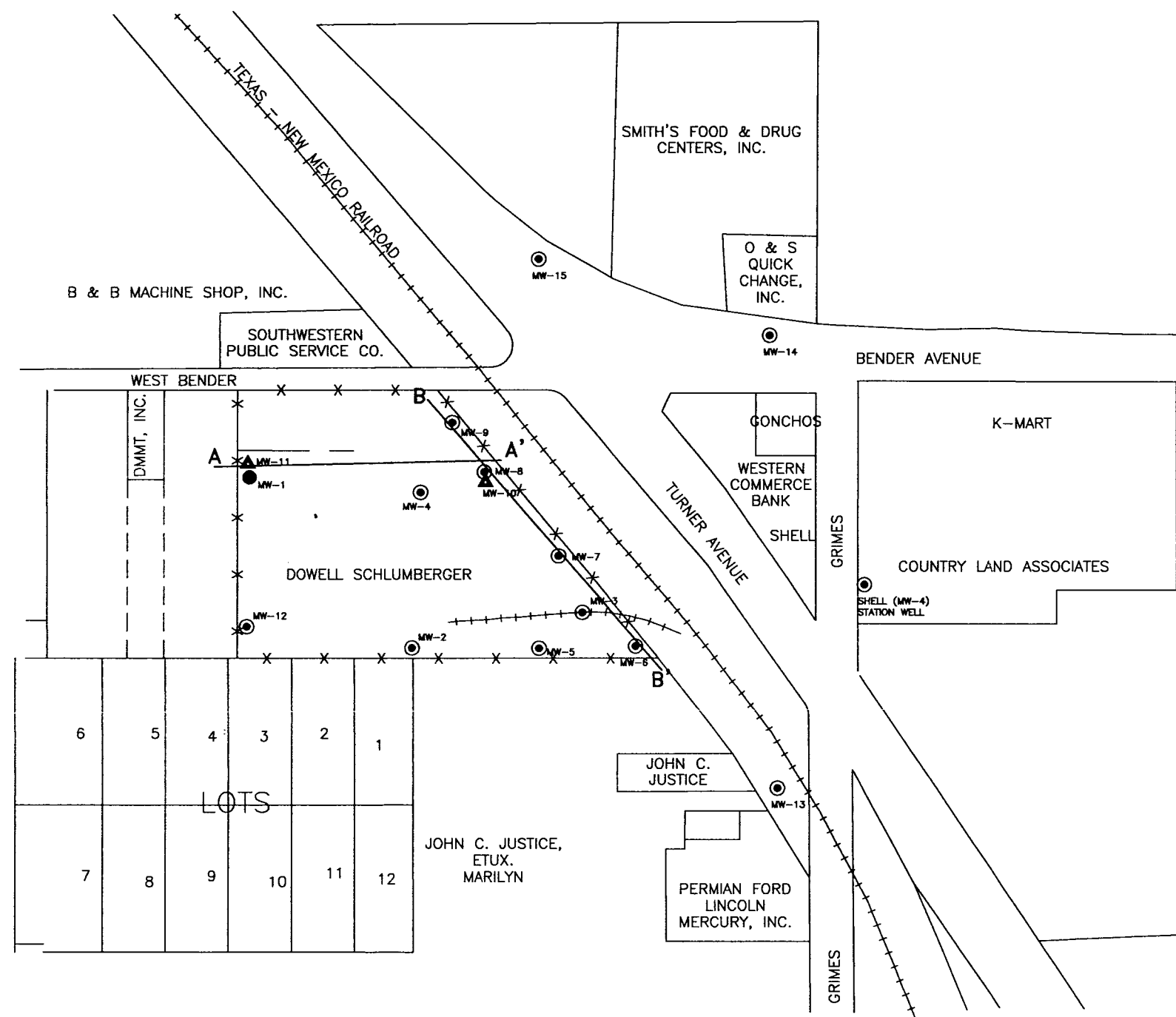
To illustrate the areal extent of the halocarbons, an isoconcentration map for total halocarbon concentrations has been constructed. There has been no change in the distribution pattern over the past year. Plots have also been constructed matching static water levels versus the various halocarbon concentrations in individual wells. The isoconcentration map and plots are presented as Appendix C.

6.0 RECOMMENDATIONS

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Hydrocarbons remain absent in the ground-water at monitoring wells MW-14 and MW-15 and halocarbon concentrations are declining in the UST area. Because of this, Dowell is recommending that the ground-water continue to be monitored quarterly but the number of wells sampled be reduced. Dowell is proposing that sampling be performed on MW-3, MW-5, MW-10, MW-11, and MW-12 only during the fourth quarter of each year. Ground-water samples would be collected from all other monitoring wells quarterly and analyzed by EPA Method 8260. Static water levels would be collected from all monitoring on a quarterly basis.

FIGURES



EXPLANATION

- MW-4 ● SHALLOW MONITORING WELL LOCATION AND IDENTIFICATION
- MW-1 ● ABANDONED MONITORING WELL
- MW-11 ▲ DEEP MONITORING WELL LOCATIONS
- A — A' CROSS-SECTION LOCATION

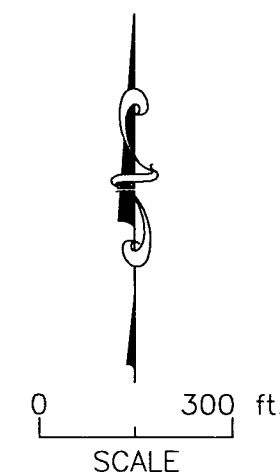
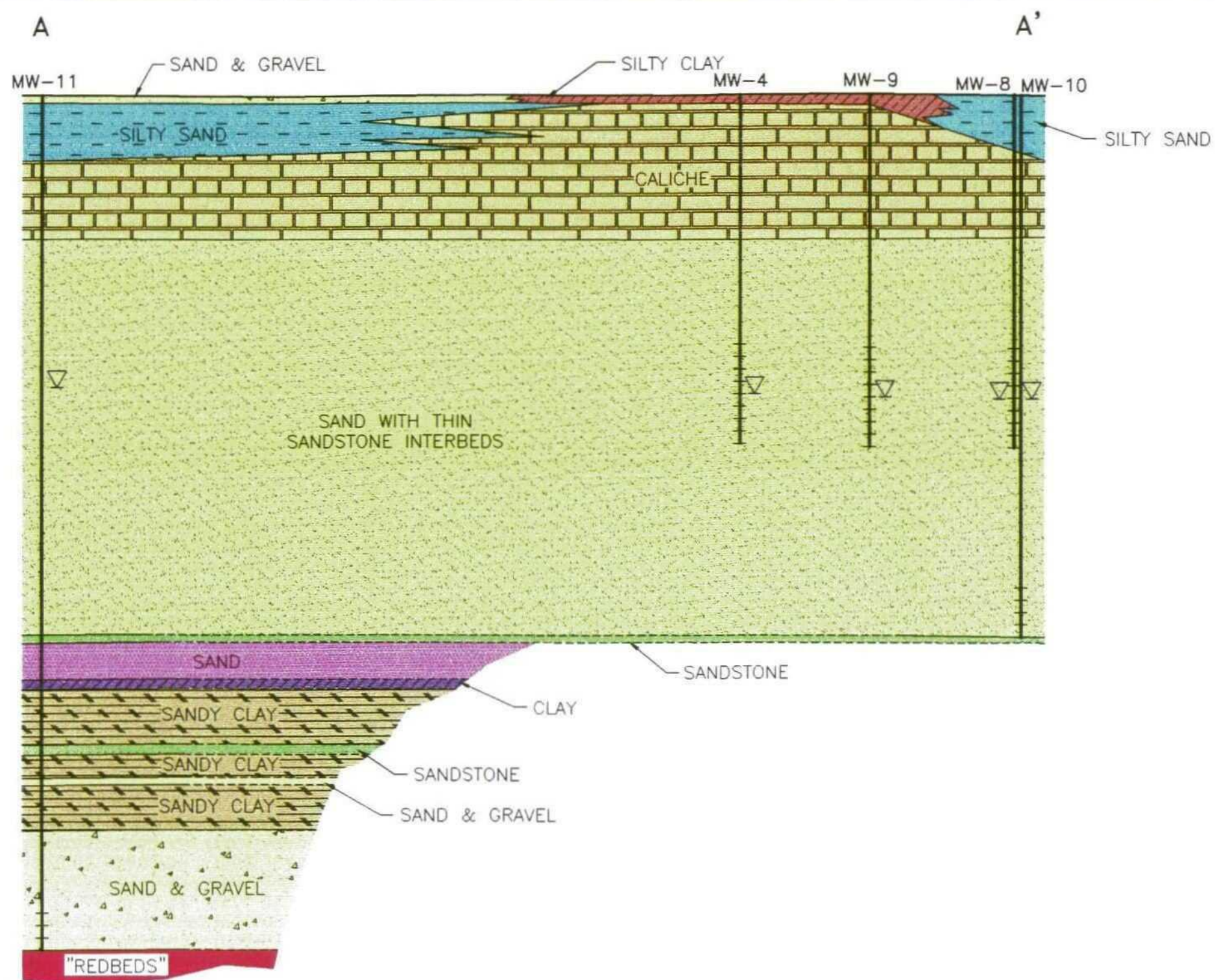


FIGURE 1
MONITORING WELL LOCATIONS

DOWELL, A DIVISION OF
SCHLUMBERGER TECHNOLOGY CORPORATION
HOBBS, NM

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EXPLANATION

- MW-7 MONITORING WELL LOCATION AND IDENTIFICATION
- SCREENED INTERVAL
- ▽ STATIC WATER LEVEL (10/15/97)
- GEOLOGIC CONTACT (DASHED WHERE INFERRED)
- SAND & GRAVEL
- SILTY CLAY
- SILTY SAND
- CALICHE
- SAND WITH THIN SANDSTONE INTERBEDS
- SANDSTONE
- SAND
- CLAY
- SANDY CLAY

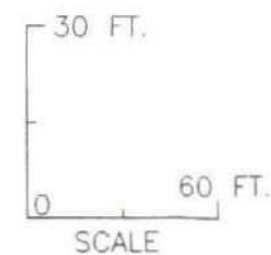
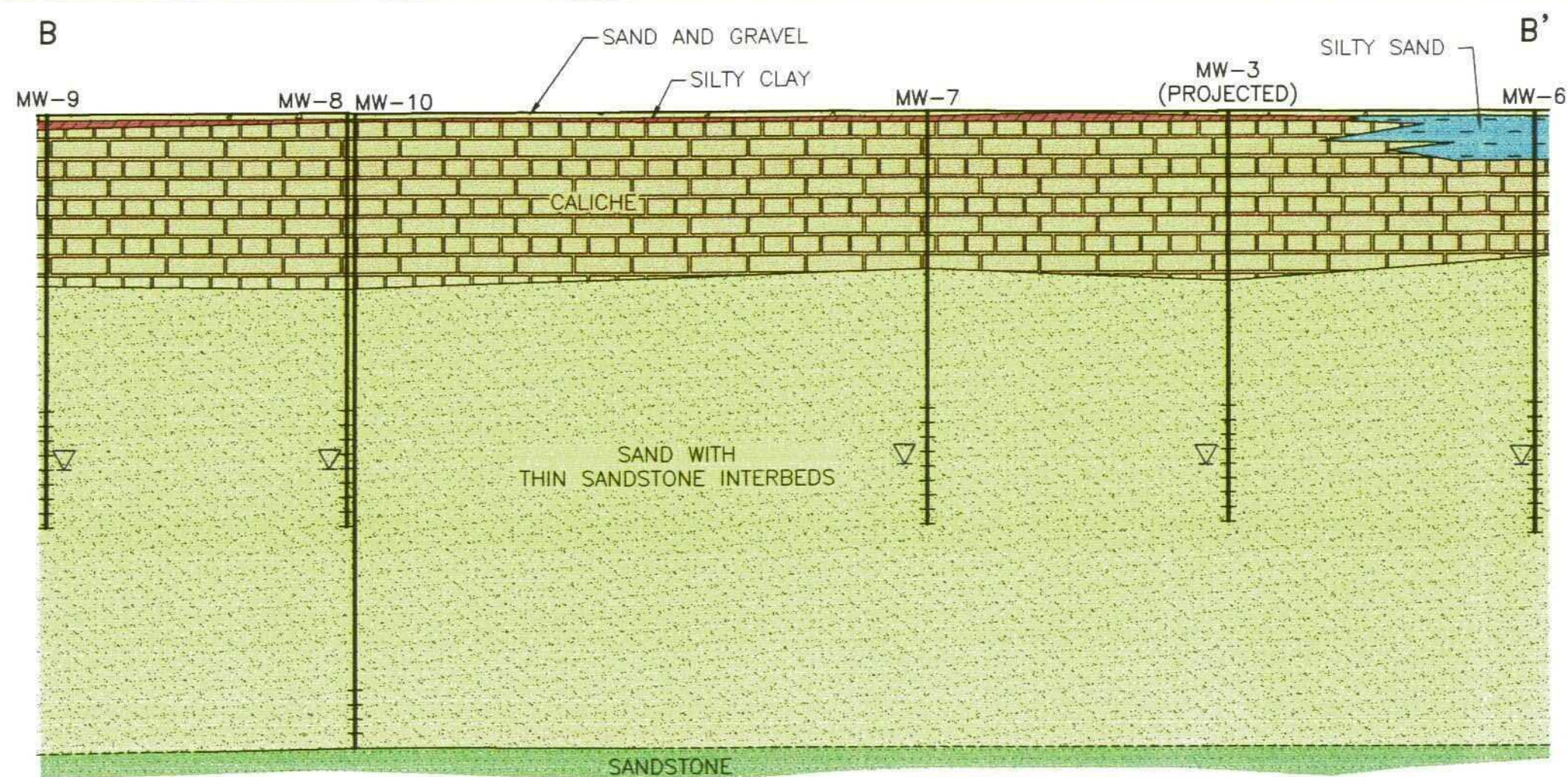


FIGURE 2

CROSS-SECTION A-A'

DOWELL, A DIVISION OF
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EXPLANATION

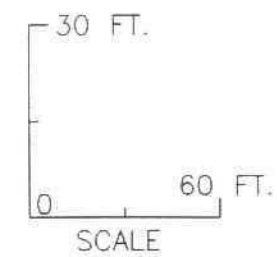
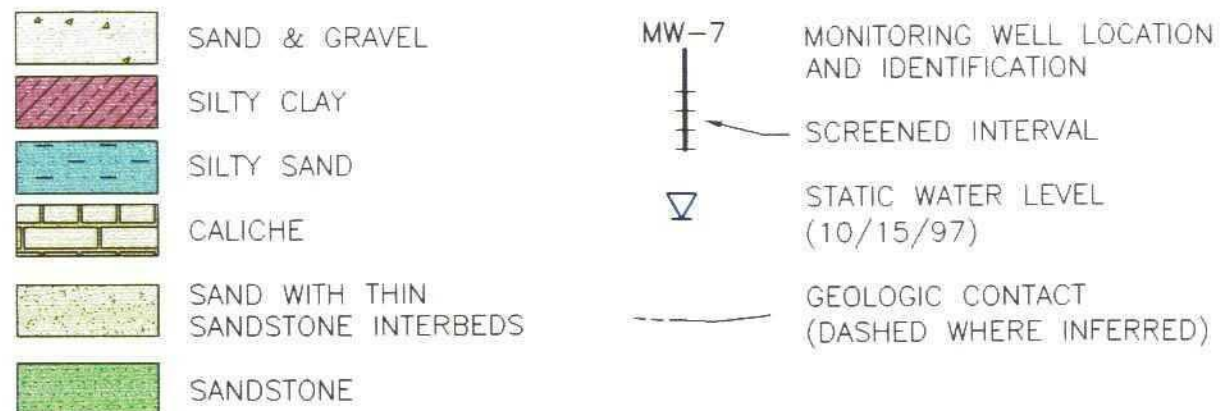


FIGURE 3

CROSS-SECTION B-B'

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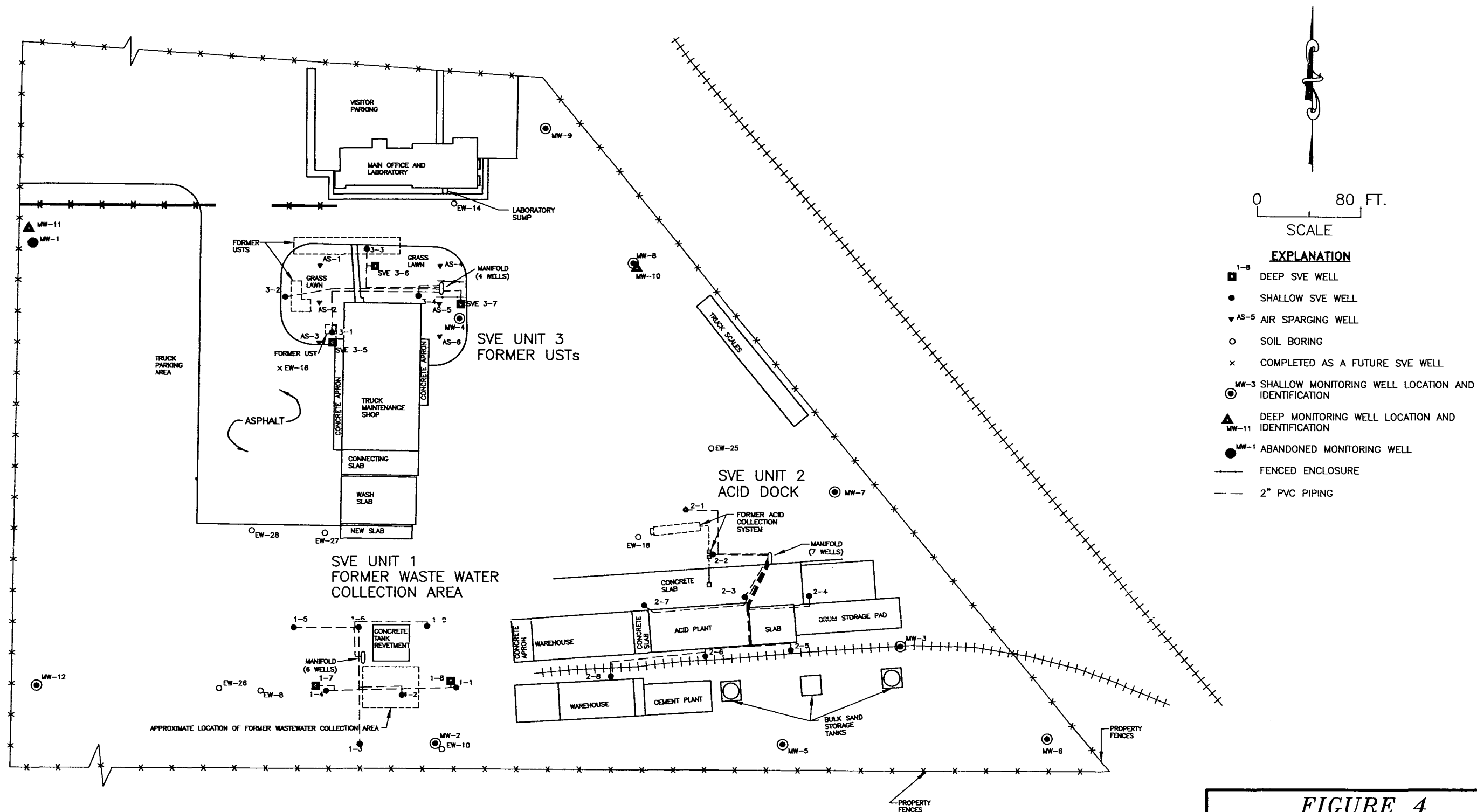
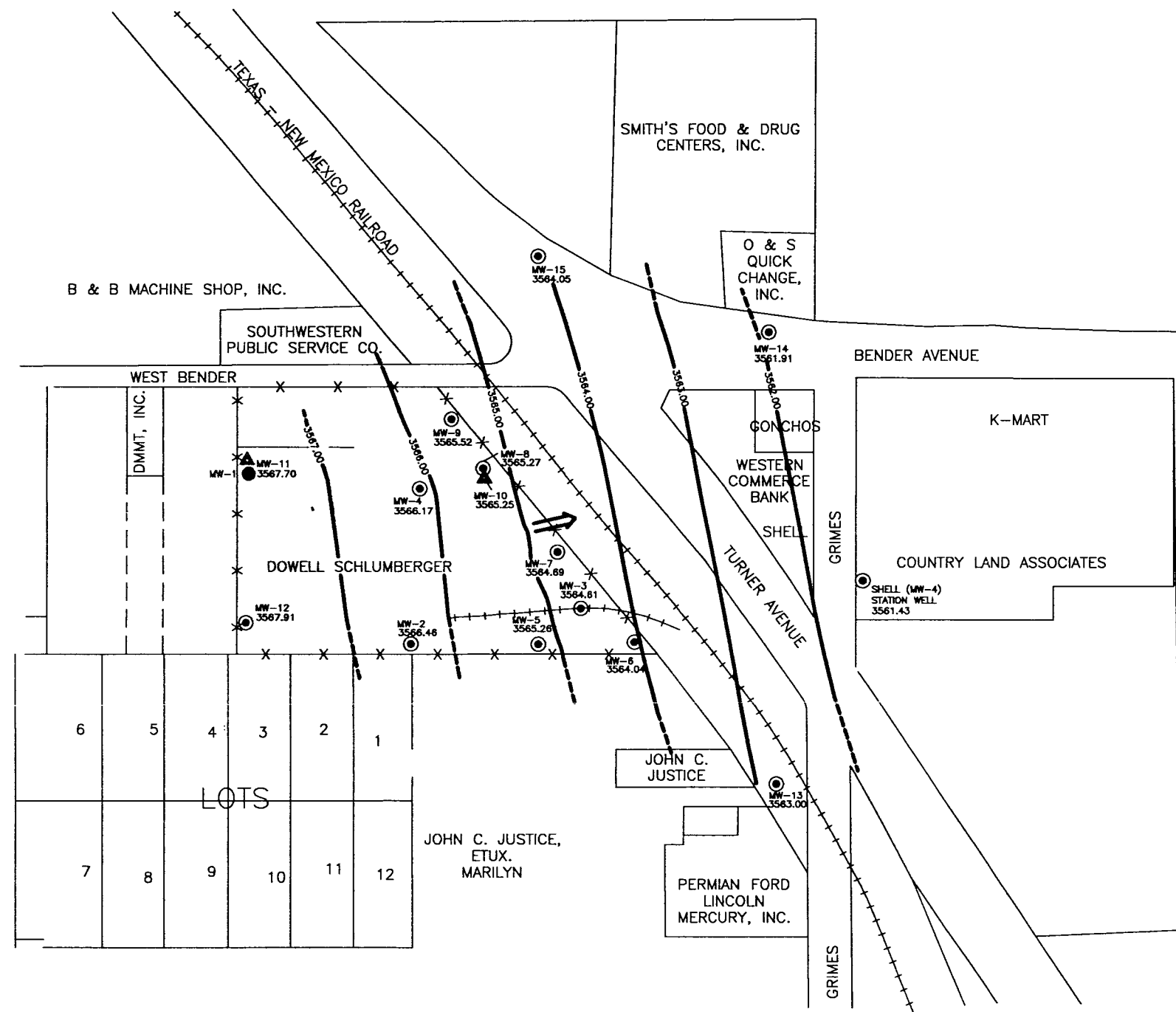


FIGURE 4
SITE MAP AND
LOCATION OF MONITORING AND
REMEDATION WELLS
 DOWELL, A DIVISION OF
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 HOBBS, NM



EXPLANATION

- MW-14 3562.33 ● SHALLOW MONITORING WELL LOCATION, IDENTIFICATION, AND POTENTIOMETRIC SURFACE ELEVATION
- MW-1 ● ABANDONED MONITORING WELL
- MW-11 3567.85 ▲ DEEP MONITORING WELL LOCATION IDENTIFICATION AND POTENTIOMETRIC SURFACE ELEVATION
- 3563.50 ——— POTENTIOMETRIC SURFACE CONTOURS AND ELEVATION (DASHED WHERE INFERRED)
- ⇐ GROUND-WATER FLOW DIRECTION

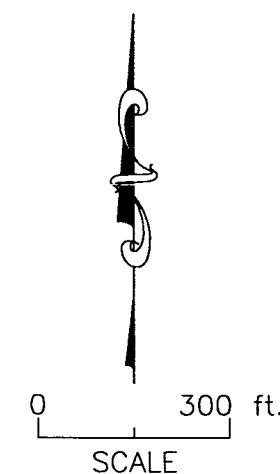


FIGURE 5
POTENTIOMETRIC SURFACE MAP
(10/15/97)

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HOBBS, NM

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Consultants, Inc. **W** **W** **C** Engineering
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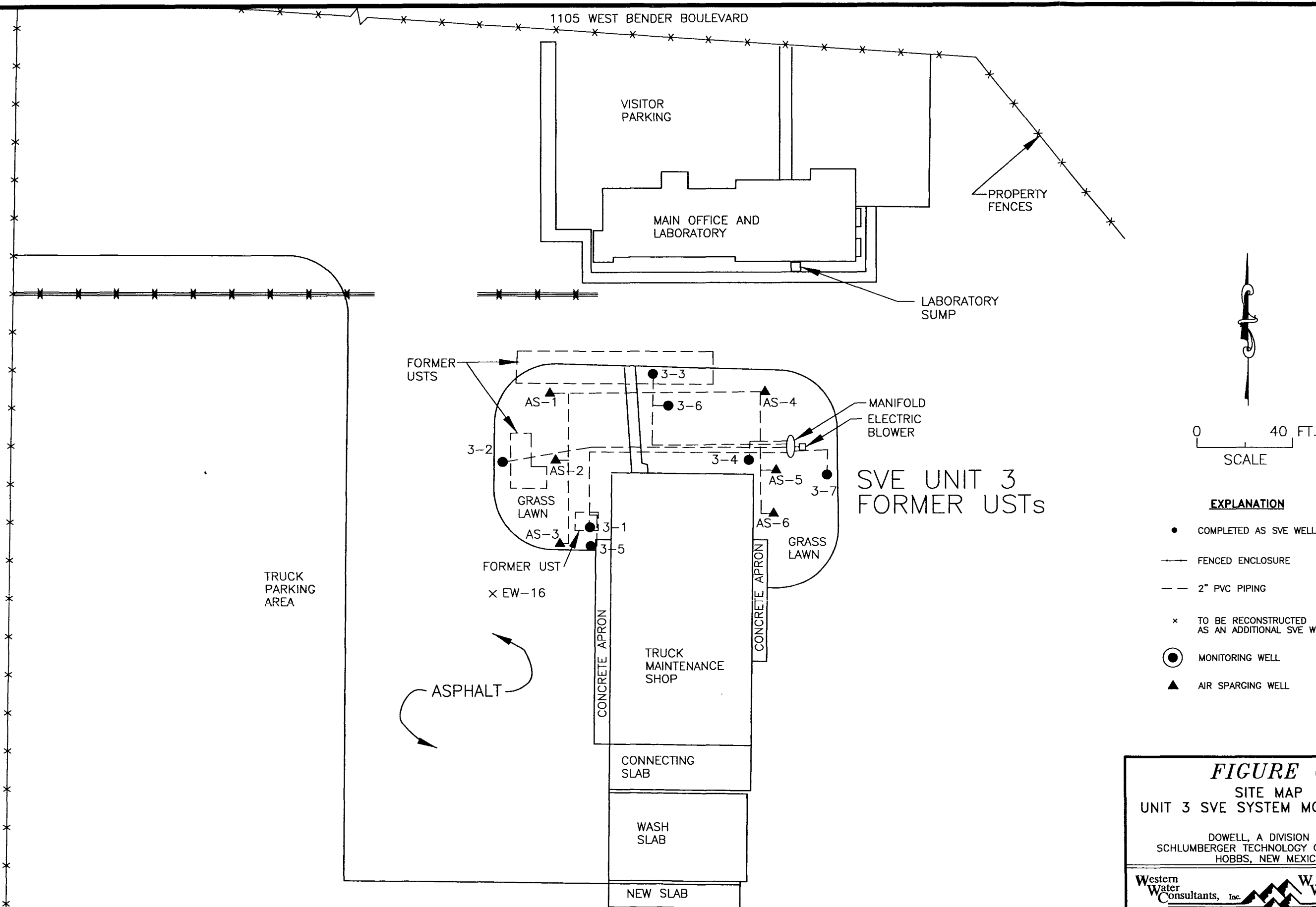


FIGURE 6
SITE MAP
UNIT 3 SVE SYSTEM MODIFICATION

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 HOBBS, NEW MEXICO

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 Consultants, Inc. **WWC** Engineering
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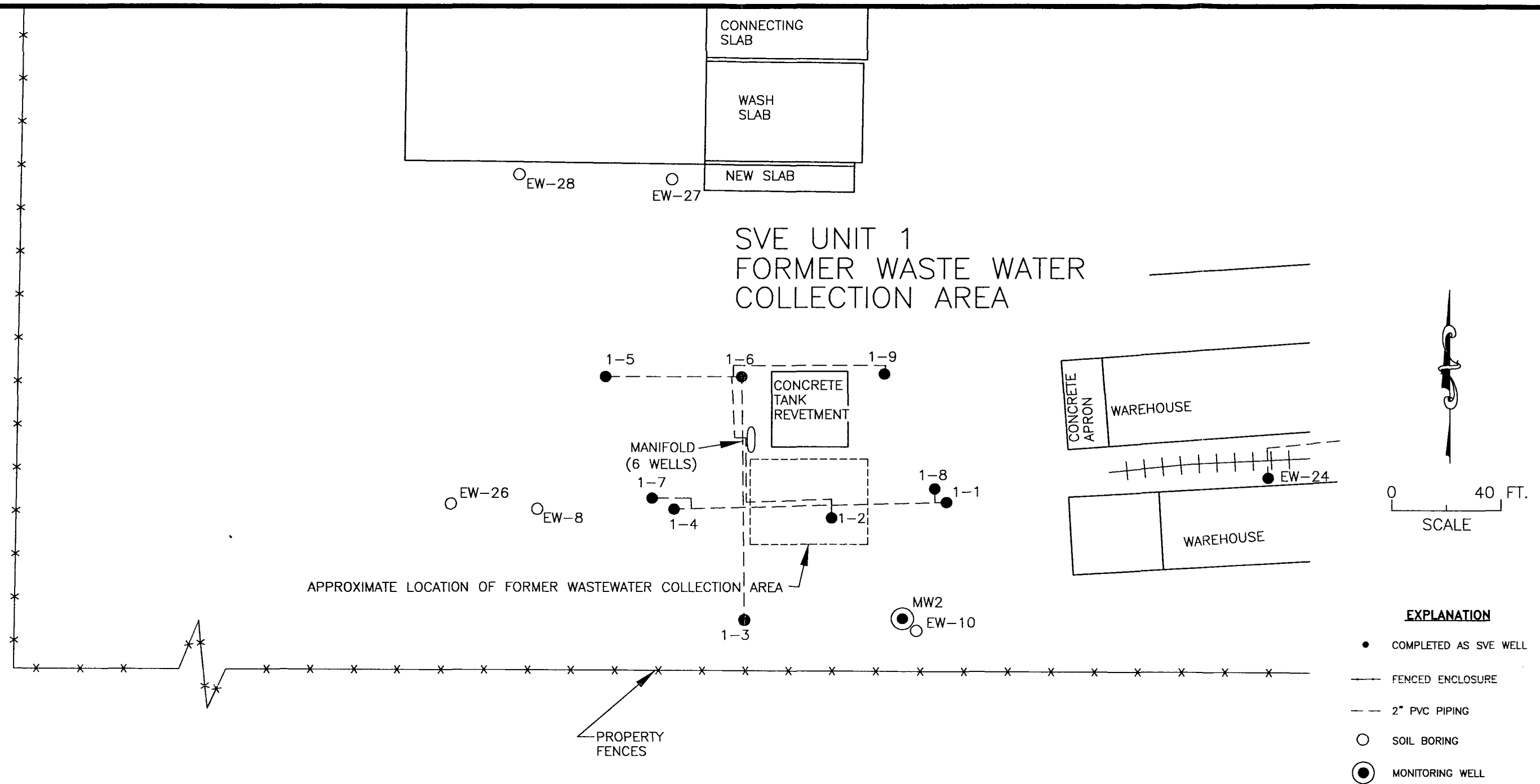
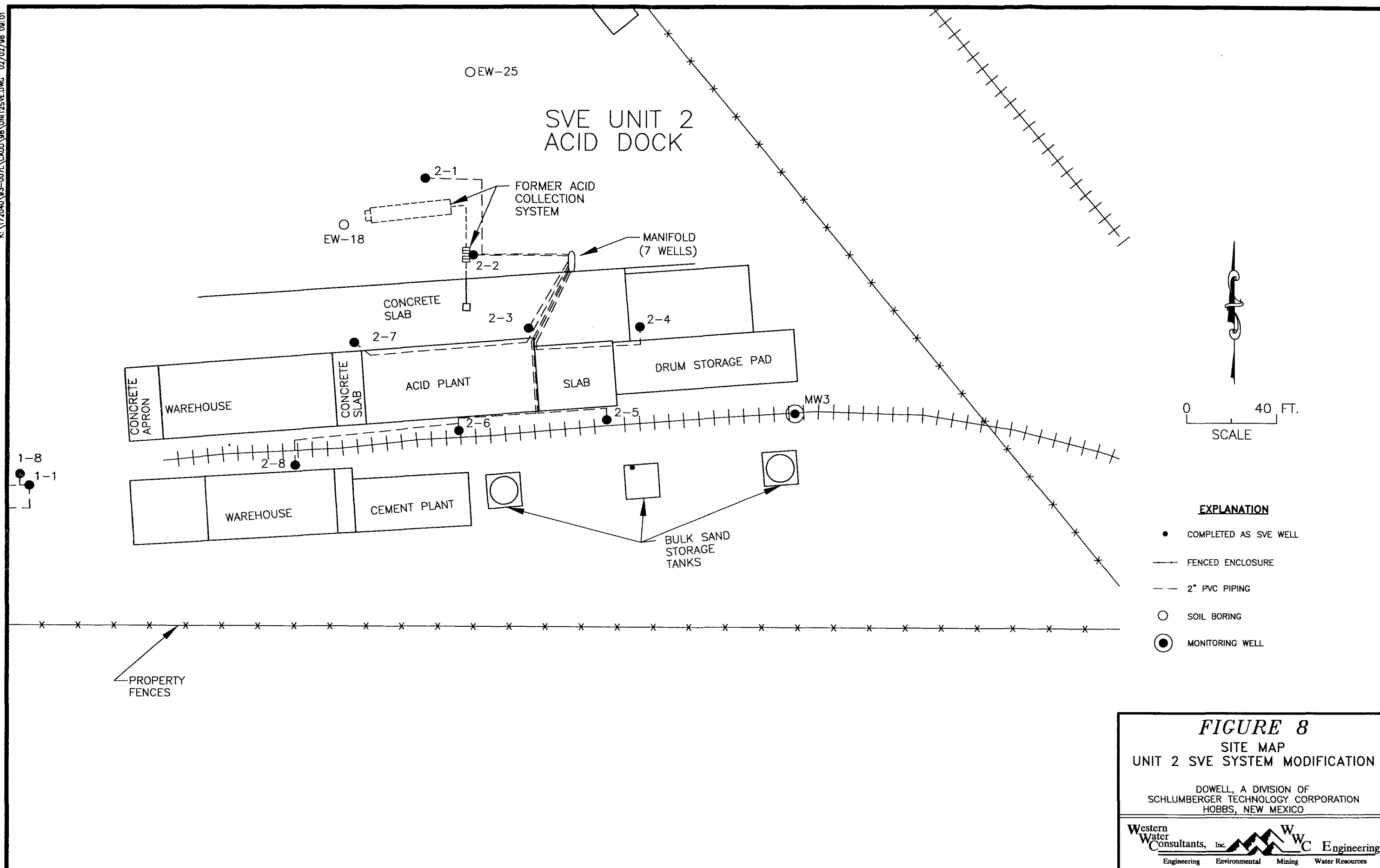


FIGURE 7
SITE MAP
UNIT 1 SVE SYSTEM MODIFICATION

DOWELL, A DIVISION OF
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HOBBS, NEW MEXICO

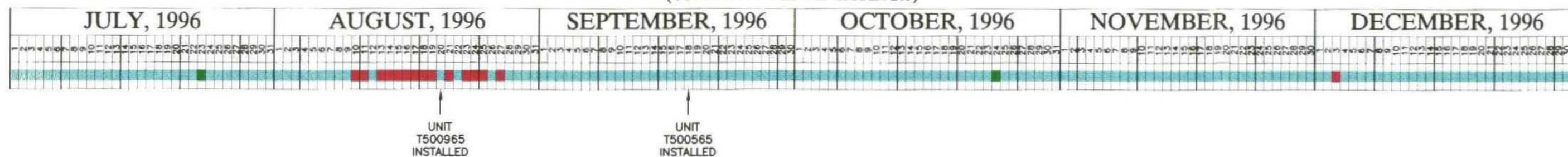
Western
Water
Consultants, Inc. **WWC Engineering**

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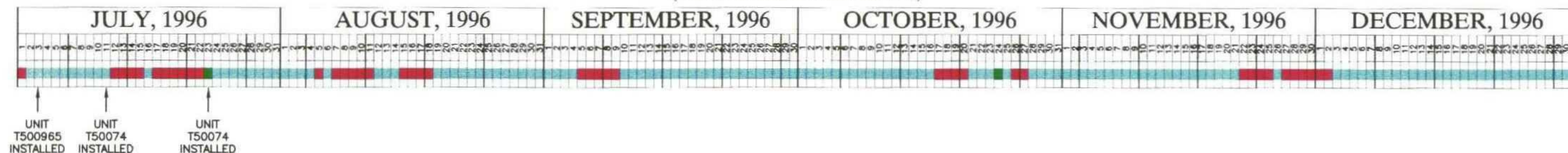
FORMER LAGOON, UNIT 1

(OPERATION PERCENTAGE 92%)



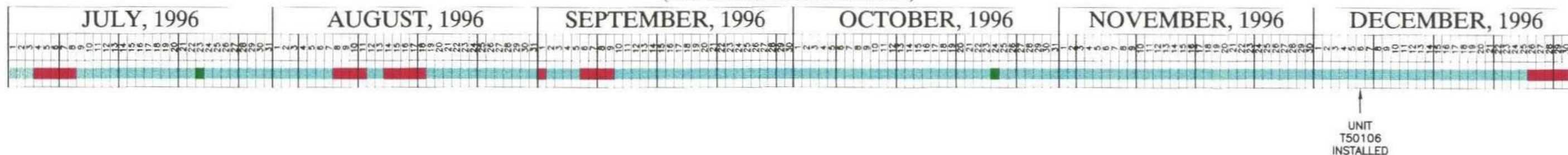
ACID PLANT, UNIT 2

(OPERATION PERCENTAGE 77%)



FORMER UST, UNIT 3

(OPERATION PERCENTAGE 87%)



EXPLANATION

- UNIT IS RUNNING EXCEPT FOR BRIEF SHUTDOWNS FOR ROUTINE MAINTENANCE
- UNIT IS NOT OPERATING
- AIR SAMPLES COLLECTED

FIGURE 9

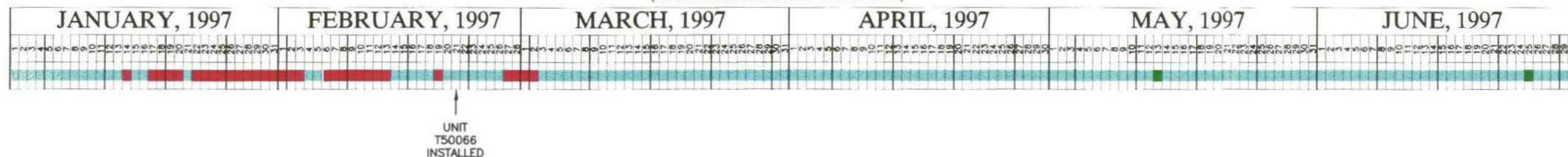
SVE OPERATION TIMELINE
07/01/96 THRU 12/31/96

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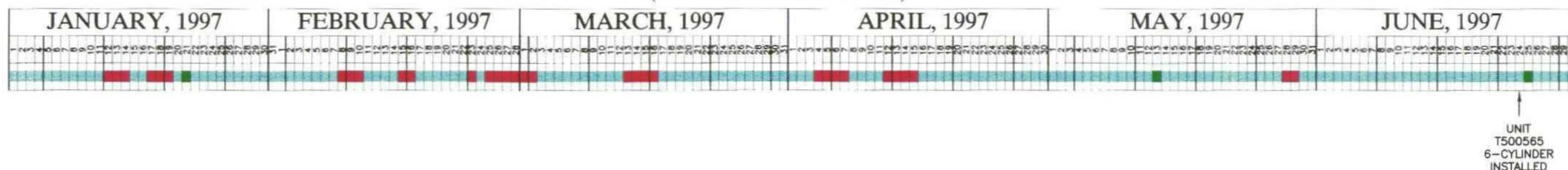
FORMER WASTE WATER LAGOON, UNIT 1

(OPERATION PERCENTAGE 83%)



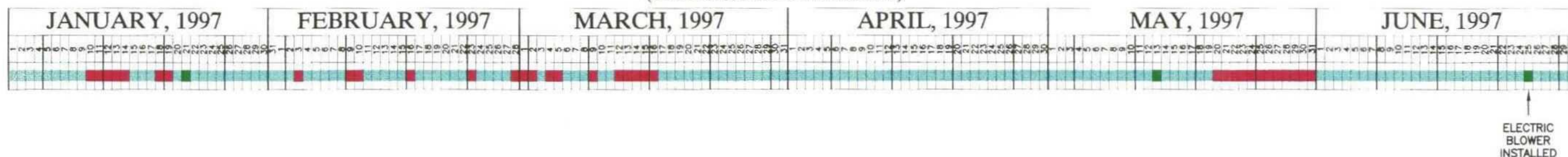
ACID DOCK, UNIT 2

(OPERATION PERCENTAGE 82%)



FORMER USTs, UNIT 3

(OPERATION PERCENTAGE 81%)



EXPLANATION

-  UNIT IS RUNNING EXCEPT FOR BRIEF SHUTDOWNS FOR ROUTINE MAINTENANCE
-  UNIT IS NOT OPERATING
-  AIR SAMPLES COLLECTED

FIGURE 10
SVE OPERATION TIMELINE
01/01/97 THRU 06/30/97

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Engineering Environmental Mining Water Resources

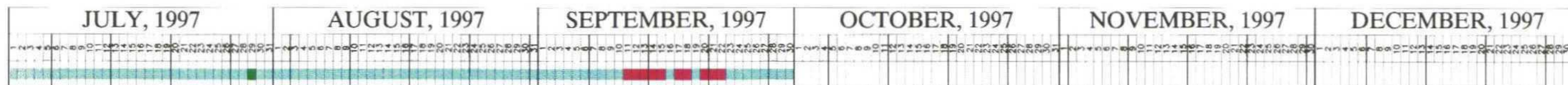
FORMER LAGOON, UNIT 1



ACID PLANT, UNIT 2



FORMER UST, UNIT 3



EXPLANATION

-  UNIT IS RUNNING EXCEPT FOR BRIEF SHUTDOWNS FOR ROUTINE MAINTENANCE
-  UNIT IS NOT OPERATING
-  AIR SAMPLES COLLECTED

FIGURE 11
SVE OPERATION TIMELINE
07/01/97 THRU 12/31/97

DOWELL, A DIVISION OF
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TABLES

Table 1. Static Water Levels for the Dowell Facility in Hobbs, New Mexico

Well Number	Top of Casing Elevations (ft)	Date Measured	Total Depth (ft)	Depth to Water (ft)	*Static Water Elevation (ft)	Difference From Prior Level (ft)	Water Column (ft)
MW-1 Abandoned	3638.52	10/25/96	84	70.22	3568.30		13.78
		11/21/96		70.17	3568.35	0.05	13.83
		01/22/97		70.44	3568.08	-0.27	13.56
		05/22/97					
MW-2	3637.26	10/25/96	85	70.03	3567.23		14.97
		11/21/96		70.03	3567.23	0.00	14.97
		01/22/97		70.26	3567.00	-0.23	14.74
		05/21/97		70.53	3566.73	-0.27	14.47
		07/28/97		70.69	3566.57	-0.16	14.31
		10/15/97		70.80	3566.46	-0.11	14.20
MW-3	3638.28	10/25/96	85	72.88	3565.40		12.12
		11/21/96		72.89	3565.39	-0.01	12.11
		01/22/97		73.10	3565.18	-0.21	11.90
		05/21/97		73.40	3564.88	-0.30	11.60
		07/28/97		73.54	3564.74	-0.14	11.46
		10/15/97		73.67	3564.61	-0.13	11.33
MW-4	3639.20	10/25/96	85	72.41	3566.79		12.59
		11/21/96		72.37	3566.83	0.04	12.63
		01/22/97		72.60	3566.60	-0.23	12.40
		05/21/97		72.87	3566.33	-0.27	12.13
		07/28/97		72.93	3566.27	-0.06	12.07
		10/15/97		73.03	3566.17	-0.10	11.97
MW-5	3637.70	01/22/97	85	71.90	3565.80		13.10
		05/21/97		72.21	3565.49	-0.31	12.79
		07/28/97		72.36	3565.34	-0.15	12.64
		10/15/97		72.44	3565.26	-0.08	12.56
MW-6	3637.52	01/22/97	85	72.88	3564.64		12.12
		05/21/97		73.22	3564.30	-0.34	11.78
		07/28/97		73.44	3564.08	-0.22	11.56
		10/15/97		73.48	3564.04	-0.04	11.52
MW-7	3638.62	01/22/97	85	73.31	3565.31		11.69
		05/21/97		73.63	3564.99	-0.32	11.37
		07/28/97		73.80	3564.82	-0.17	11.20
		10/15/97		73.93	3564.69	-0.13	11.07
MW-8	3638.71	01/22/97	85	72.78	3565.93		12.22
		05/21/97		73.12	3565.59	-0.34	11.88
		07/28/97		73.31	3565.40	-0.19	11.69
		10/15/97		73.44	3565.27	-0.13	11.56
MW-9	3638.76	01/22/97	85	72.57	3566.19		12.43
		05/21/97		72.89	3565.87	-0.32	12.11
		07/28/97		73.08	3565.68	-0.19	11.92
		10/15/97		73.24	3565.52	-0.16	11.76
MW-10	3638.86	05/27/97	130.5	73.33	3565.53		57.17
		07/28/97		73.49	3565.37	-0.16	57.01
		10/15/97		73.61	3565.25	-0.12	56.89
MW-11	3638.55	05/26/97	208	70.70	3567.85		137.30
		07/28/97		70.89	3567.66	-0.19	137.11
		10/15/97		70.85	3567.70	0.04	137.15
MW-12	3636.15	05/26/97	85	68.05	3568.10		16.95
		07/28/97		68.14	3568.01	-0.09	16.86
		10/15/97		68.24	3567.91	-0.10	16.76
MW-13	3635.39	05/21/97	84	72.31	3563.08		11.69
		07/28/97		72.39	3563.00	-0.08	11.61
		10/15/97		72.63	3562.76	-0.24	11.37
MW-14	3637.19	05/21/97	85	74.86	3562.33		10.14
		07/28/97		75.06	3562.13	-0.20	9.94
		10/15/97		75.28	3561.91	-0.22	9.72
MW-15	3636.57	05/21/97	85	72.09	3564.48		12.91
		07/28/97		72.28	3564.29	-0.19	12.72
		10/15/97		72.52	3564.05	-0.24	12.48
Shell Station MW-4	3637.69	05/25/97	82.6	75.97	3561.72		6.63
		07/28/97		76.15	3561.54	-0.18	6.45
		10/15/97		76.26	3561.43	-0.11	6.34

Note: Top of casing survey elevations are based on the "City of Hobbs Control Datum" and the North American Vertical Datum

Table 2. Chemicals Detected in Ground-Water Samples, Dowell Facility, Hobbs, New Mexico

Well Number	Date Sampled	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	PCE (mg/L)	1,1,1-TCA (mg/L)	TCE (mg/L)	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	TOTAL XYLENES (mg/L)	NAPHTHALENE (mg/L)
MW-1	10/25/98	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	11/21/98	0.008	ND(0.001)	ND(0.001)	0.007	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
	01/22/97	0.008	ND(0.001)	ND(0.001)	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
abandoned												
MW-2	10/25/98	0.259	0.002	0.012	0.014	0.044	ND(0.002)	0.042	0.016	0.049	0.027	0.007
	10/25/98	0.288	0.002	0.015	0.024	0.044	ND(0.002)	0.044	0.016	0.049	0.028	0.008
	11/21/98	0.322	ND(0.005)	0.030	0.049	0.247	ND(0.005)	0.070	0.027	0.050	0.048	0.008
	01/22/97	0.082	ND(0.005)	0.011	0.017	0.083	ND(0.005)	0.019	0.009	0.014	0.016	ND(0.005)
	05/23/97	0.039	ND(0.001)	0.007	0.014	0.057	ND(0.001)	0.008	0.004	0.003	0.005	0.001
	06/25/97	0.590	ND(0.002)	0.009	0.027	0.180	ND(0.002)	0.011	0.005	0.007	0.007	0.001J
	07/28/97	0.031	ND(0.002)	0.004	0.011	0.097	ND(0.002)	0.004	0.00118J	0.00096J	0.00114J	ND(0.002)
	10/16/97	0.012	ND(0.002)	0.00180J	0.012	0.023	ND(0.002)	0.002	0.00130J	0.00064J	0.00102J	ND(0.002)
MW-3	10/25/98	0.023	ND(0.002)	0.007	0.012	0.007	ND(0.002)	0.002	ND(0.002)	ND(0.002)	ND(0.004)	0.008
	11/21/98	0.017	ND(0.002)	0.007	0.019	0.028	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	0.001J
	01/22/97	0.027	ND(0.002)	0.010	0.016	0.014	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	05/22/97	0.028	0.001	0.015	0.016	0.015	ND(0.001)	0.002	ND(0.001)	ND(0.001)	ND(0.002)	0.004
	07/28/97	0.033	0.00176J	0.012	0.012	0.008	ND(0.002)	0.003	ND(0.002)	ND(0.002)	ND(0.004)	0.005
	10/16/97	0.022	ND(0.002)	0.008	0.022	0.011	ND(0.002)	0.00102J	ND(0.002)	ND(0.002)	ND(0.004)	0.002
MW-4	10/25/98	0.110	0.051	0.498	2.590	1.040	0.005	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	11/21/98	0.110	ND(0.005)	0.623	3.528	0.941	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	ND(0.005)
	11/21/98	0.108	0.042	0.694	3.980	1.080	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	01/22/97	0.089	0.037	0.508	3.100	0.557	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.010)	ND(0.005)
	05/23/97	0.062	0.022	0.423	1.720	0.550	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
	06/25/97	0.047	0.0196J	0.175	1.250	0.349	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	06/25/97	0.044	0.0188J	0.187	1.190	0.332	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	07/28/97	0.037	0.0146J	0.124	1.060	0.287	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	10/16/97	0.031	0.0114J	0.103	1.170	0.225	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)
MW-5	01/23/97	0.180	0.002	0.020	0.012	0.036	0.0008J	0.018	0.004	ND(0.001)	0.0008J	ND(0.001)
	01/23/97	0.190	0.003	0.018	0.009	0.034	0.0007J	0.018	0.004	ND(0.001)	0.001	0.004
	05/23/97	0.191	0.003	0.055	0.079	0.059	0.0017J	0.028	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	07/28/97	0.241	0.004	0.072	0.058	0.051	0.002	0.051	0.023	ND(0.002)	0.007	0.008
	07/28/97	0.258	0.0043J	0.089	0.052	0.050	ND(0.005)	0.052	0.023	ND(0.005)	0.00865J	0.011
	10/16/97	0.214	0.0038J	0.086	0.070	0.039	ND(0.001)	0.059	0.027	ND(0.001)	0.008	0.011
MW-6	01/23/97	0.041	0.001	0.004	0.003	0.004	ND(0.001)	0.0008J	ND(0.001)	ND(0.001)	ND(0.002)	0.0008J
	05/22/97	0.085	0.002	0.034	0.023	0.017	0.00196J	0.004	ND(0.002)	ND(0.002)	ND(0.004)	0.002
	07/28/97	0.081	0.00192J	0.027	0.021	0.008	0.00184J	0.003	ND(0.002)	ND(0.002)	ND(0.004)	0.004
	10/16/97	0.082	0.00170J	0.025	0.019	0.006	0.00186J	0.003	ND(0.002)	ND(0.002)	ND(0.002)	0.003
MW-7	01/23/97	0.047	0.0008J	0.008	0.014	ND(0.001)	0.004	0.0008J	ND(0.001)	ND(0.001)	0.001	0.013
	05/22/97	0.087	0.00166J	0.068	0.116	0.00164J	0.014	0.003	ND(0.002)	ND(0.002)	ND(0.004)	0.062
	07/28/97	0.073	0.00182J	0.061	0.110	ND(0.002)	0.021	0.004	ND(0.002)	ND(0.002)	ND(0.004)	0.055
	10/16/97	0.065	ND(0.005)	0.050	0.081	ND(0.005)	0.018	0.0030J	ND(0.005)	ND(0.005)	ND(0.001)	0.058
MW-8	01/23/97	0.068	0.005J	0.280	0.810	0.460	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
	05/23/97	0.082	ND(0.001)	1.360	4.150	0.805	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
	06/25/97	0.077	ND(0.002)	0.975	3.800	0.774	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	07/28/97	ND(0.001)	ND(0.001)	1.120	4.520	0.798	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.004)	ND(0.002)
	10/16/97	ND(0.002)	ND(0.002)	0.858	4.570	0.596	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
MW-9	01/23/97	0.011	ND(0.001)	0.083	0.090	0.045	0.0004J	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
	05/23/97	0.028	ND(0.001)	0.322	1.550	0.147	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
	06/25/97	0.033	ND(0.002)	0.328	1.130	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	07/28/97	0.021	ND(0.002)	0.278	1.020	0.121	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	10/16/97	0.0186J	ND(0.002)	0.278	1.180	0.104	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	10/16/97	0.023	ND(0.002)	0.321	1.180	0.141	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
duplicate												

Table 2. Chemicals Detected in Ground-Water Samples, Dowell Facility, Hobbs, New Mexico

Well Number	Date Sampled	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	PCE (mg/L)	1,1,1-TCA (mg/L)	TCE (mg/L)	BENZENE (mg/L)	ETHYL-BENZENE (mg/L)	TOLUENE (mg/L)	TOTAL XYLENES (mg/L)	NAPHTHALENE (mg/L)
MW-10 duplicate	05/28/97	0.004	ND(0.002)	0.007	0.028	ND(0.002)	0.012J	0.004	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	05/28/97	ND(0.002)	ND(0.002)	0.008	0.028	ND(0.002)	0.013J	0.007	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	07/28/97	0.003	ND(0.002)	0.009	0.014	0.00196J	ND(0.002)	0.0015J	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
MW-11	10/16/97	ND(0.002)	ND(0.002)	0.00198J	0.008	ND(0.002)	ND(0.002)	0.00108J	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	05/24/97	0.003J	ND(0.001)	0.0088J	0.002	ND(0.001)	ND(0.001)	0.002	ND(0.001)	ND(0.001)	0.0010J	ND(0.001)
	07/28/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	0.00095J	ND(0.001)	0.008	ND(0.001)
MW-12	10/16/97	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	0.00046J	ND(0.001)	0.00302J	ND(0.001)
	05/25/97	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	0.0058J	0.0052J	0.0027J	ND(0.001)
	07/28/97	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(0.002)	ND(0.001)
MW-13	10/16/97	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(0.002)	ND(0.001)
	05/24/97	ND(0.001)	ND(0.001)	0.012	0.010	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
	07/28/97	ND(0.001)	ND(0.001)	0.012	0.009	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
MW-14 duplicate	10/16/97	ND(0.001)	ND(0.001)	0.015	0.013	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	ND(0.001)
	10/16/97	ND(0.002)	ND(0.002)	0.011	0.013	0.00108J	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.004)	ND(0.002)
	05/25/97	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(0.002)	ND(0.001)
MW-15	07/28/97	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(0.002)	ND(0.001)
	07/28/97	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(0.002)	ND(0.001)
	10/16/97	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(0.002)	ND(0.001)
*SO4	05/25/97	0.021	ND(0.01)	0.024	ND(0.01)	0.005J	ND(0.01)	ND(0.01)	0.489	0.470	1.838	0.107
	07/28/97	0.020	ND(0.02)	0.020	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	0.411	0.138	0.905	0.125
	10/16/97	0.0180J	ND(0.02)	0.022	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	0.322	0.039	0.713	0.102

Notes:

Only commonly detected compounds are listed. Other compounds that have been detected infrequently are included in the laboratory reports.

ND - Not Detected at detection limit shown in parentheses.

J - Detected at concentration below the method detection limit

*SO4 = Shell Service Station monitoring well MW-4

1,1-DCA - 1,1-Dichloroethane

1,2-DCA - 1,2-Dichloroethane

1,1-DCE - 1,1-Dichloroethene

PCE - Tetrachloroethane

TCA - 1,1,1-Trichloroethane

TCE - Trichloroethene

TABLE 3. SVE System Air Sample Data from the Dowell Schlumberger Facility, Hobbs, New Mexico.

Sample I.D.	Date Sampled	Sample Location	Benzene (mg/m3)	Toluene (mg/m3)	Benzene (mg/m3)	Ethyl-Total Xylene (mg/m3)	FORMER UST										Total Input BTEX (mg/m3)	Total Output BTEX (mg/m3)	Total Input Halocarbons (mg/m3)	Total Output Halocarbons (mg/m3)
							1,2	5.7	5.5	ND(0.1)	ND(0.1)	1,1-DCE (mg/m3)	1,1-DCA (mg/m3)	Chloromethane (mg/m3)	1,1,1-TCA (mg/m3)	Vinyl Chloride (mg/m3)				
007-AREA 3	11/02/94	Pilot	1.2	5.7	5.5		ND(0.1)	ND(0.1)		ND(0.1)		ND(0.1)			0.49					
Unit 3 (7/95) Input	7/13/95	Input	2.08	5.95	1.17	6.84	281	10.9	ND(0.2)	ND(0.2)		ND(0.2)	2.15	ND(0.2)	2.68	870	15.84	1379.58		
Unit 3 (7/95) Exhaust		Exhaust	2.89	1.41	0.72	7.86	0.27	ND(0.2)	17.2	ND(0.2)		ND(0.2)	ND(0.2)	0.87	ND(0.2)	2.76		21.1		
Unit 3 (8/95) Input	8/12/95	Input	0.4	1.9	0.9	4.9	506	15.6	ND(0.2)	ND(0.2)		ND(0.2)	579	ND(0.2)	2.1	636	8.1	1738.7		
Unit 3 (8/95) Exhaust		Exhaust	4.9	ND(0.2)	ND(0.2)	ND(0.2)	2.8	ND(0.2)	48	ND(0.2)		ND(0.2)	ND(0.2)	35	0.8	21.5	4.9	108.1		
Unit 3 Input 9/95-1	09/07/95	Input	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	593.4	13.3	ND(0.2)	ND(0.2)		ND(0.2)	492	ND(0.2)	2	444.4	0	1545.1		
Unit 3 Output 9/95-1		Exhaust	1.1	0.5	ND(0.2)	ND(0.2)	56.2	ND(0.2)	ND(0.2)	ND(0.2)		ND(0.2)	31.9	ND(0.2)	0.9	81.4	1.6	170.4		
Unit 3 Int	11/29/95	Before Cat	1.01	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	13	ND(0.2)		ND(0.2)	ND(0.2)	35.6	ND(0.2)	9.7	1.01	58.3		
Unit 3 Output		After Cat	1.01	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	13	ND(0.2)		ND(0.2)	ND(0.2)	10.5	ND(0.2)	14.5	1.01	41.21		
93007-TKShipInpt	04/11/96	Input	ND(0.2)	0.9	0.5	3.4	99.4	ND(0.2)	ND(0.2)	ND(0.2)		ND(0.2)	254	ND(0.2)	1	611	4.8	965.4		
93007-TKShipExh.4/96		Exhaust	0.6	ND(0.2)	ND(0.2)	ND(0.2)	0.9	ND(0.2)	10.1	ND(0.2)		ND(0.2)	ND(0.2)	6.8	0.4	8.5	0.6	26.7		
93007TSINPT.7/96	07/23/96	Input	ND(0.3)	ND(0.3)	ND(0.3)	ND(0.3)	47.1	4.8	ND(0.5)	ND(0.5)		ND(0.3)	ND(0.5)	ND(0.5)	0.5	46.2	0	98.6		
93007TSEXHST.7/96		Exhaust	0.4	ND(0.3)	ND(0.3)	ND(0.3)	1.3	ND(0.3)	6.6	ND(0.3)		ND(0.3)	ND(0.3)	2.2	ND(0.3)	2.8	0.4	12.9		
UST-INPUT-10/96	10/24/96	Input	0.35	0.35	0.24	1.01	57.6	4.37	ND(0.2)	ND(0.2)		ND(0.2)	97.7	ND(0.2)	179	1.95	338.67			
UST-OUTPUT-10/96		Exhaust	4.83	ND(0.2)	ND(0.2)	ND(0.4)	ND(0.2)	4.66	ND(0.2)	ND(0.2)		ND(0.2)	ND(0.2)	2.59	ND(0.2)	1.62	4.83	8.87		
93007-UST-INP-1/97	1/21/97	Input	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	30	2.8	ND(1.0)	ND(1.0)		ND(1.0)	63.3	ND(1.0)	0.58J	205	0	301.1		
93007-UST-EXH-1/97		Exhaust	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.5	ND(1.0)	ND(1.0)		ND(1.0)	ND(1.0)	ND(1.0)	6.19		0			
93-007-UST-INP.5/97	05/13/97	Input	ND(25.0)	ND(25.0)	ND(25.0)	ND(25.0)	21.3J	ND(25.0)	ND(25.0)	ND(25.0)		ND(25.0)	41.8	ND(25.0)	ND(25.0)	155	0	196.8		
93-007-USTCOMP.6/97	06/25/97	Input	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	68.2	10.5	ND(1.0)	ND(1.0)		ND(1.0)	125	ND(1.0)	1.11	335	0	539.81		
93007-UST.7/97	07/29/97	Input	ND(10.0)	ND(10.0)	ND(10.0)	ND(20.0)	10.4	ND(10.0)	ND(10.0)	ND(10.0)		ND(10.0)	30	ND(10.0)	ND(10.0)	148	0	188.4		
93007-UST.1/98	01/06/98	Input	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	3.85J	ND(5.0)	ND(5.0)	ND(5.0)		ND(5.0)	8.25	ND(5.0)	ND(5.0)	102	0	110.25		
INDIVIDUAL SVE WELLS																				
93-007-USTDP3.6/97	06/05/97	3-5	ND(10.0)	ND(10.0)	ND(10.0)	ND(20.0)	79.8	25.1	ND(10.0)	ND(10.0)		ND(10.0)	441	ND(10.0)	ND(10.0)	871				
93-007-USTDP2.6/97	06/25/97	3-6	ND(10.0)	ND(10.0)	ND(10.0)	ND(20.0)	120	13.2	ND(10.0)	ND(10.0)		ND(10.0)	114	ND(10.0)	ND(10.0)	368				
93-007-USTDP1.6/97	06/25/97	3-7	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	82.8	7.31	ND(1.0)	ND(1.0)		ND(1.0)	60.2	ND(1.0)	ND(1.0)	226				

Notes: mg/m3 = milligrams per cubic meter
ND=Not Detected at detection limit shown in parentheses.
DCA=Dichloroethane
DCE= Dichloroethene

Notes: mg/m³ = milligrams per cubic meter

ND=Not Detected at detection limit shown in parentheses.

DCA=Dichloroethane

DCE=Dichloroethane

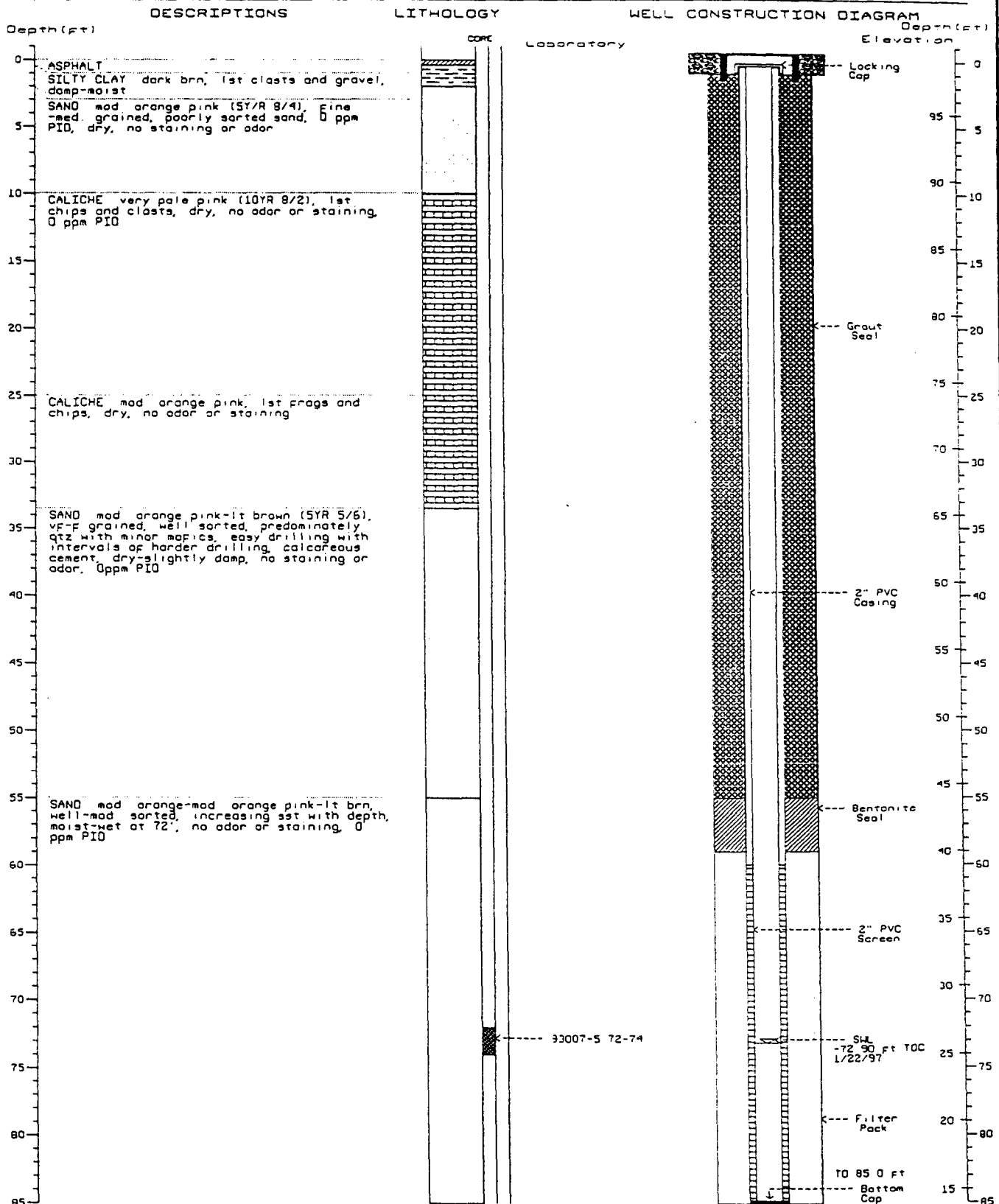
APPENDIX A

WELL COMPLETION LOGS

MONITORING WELL 93007 MW-5

LOCATION: Dowell Facility, Hobbs, New Mexico
 In the road between sand silos and south property fence
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Mattson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No. NA
 INSTALLATION DATE: January 20, 1997

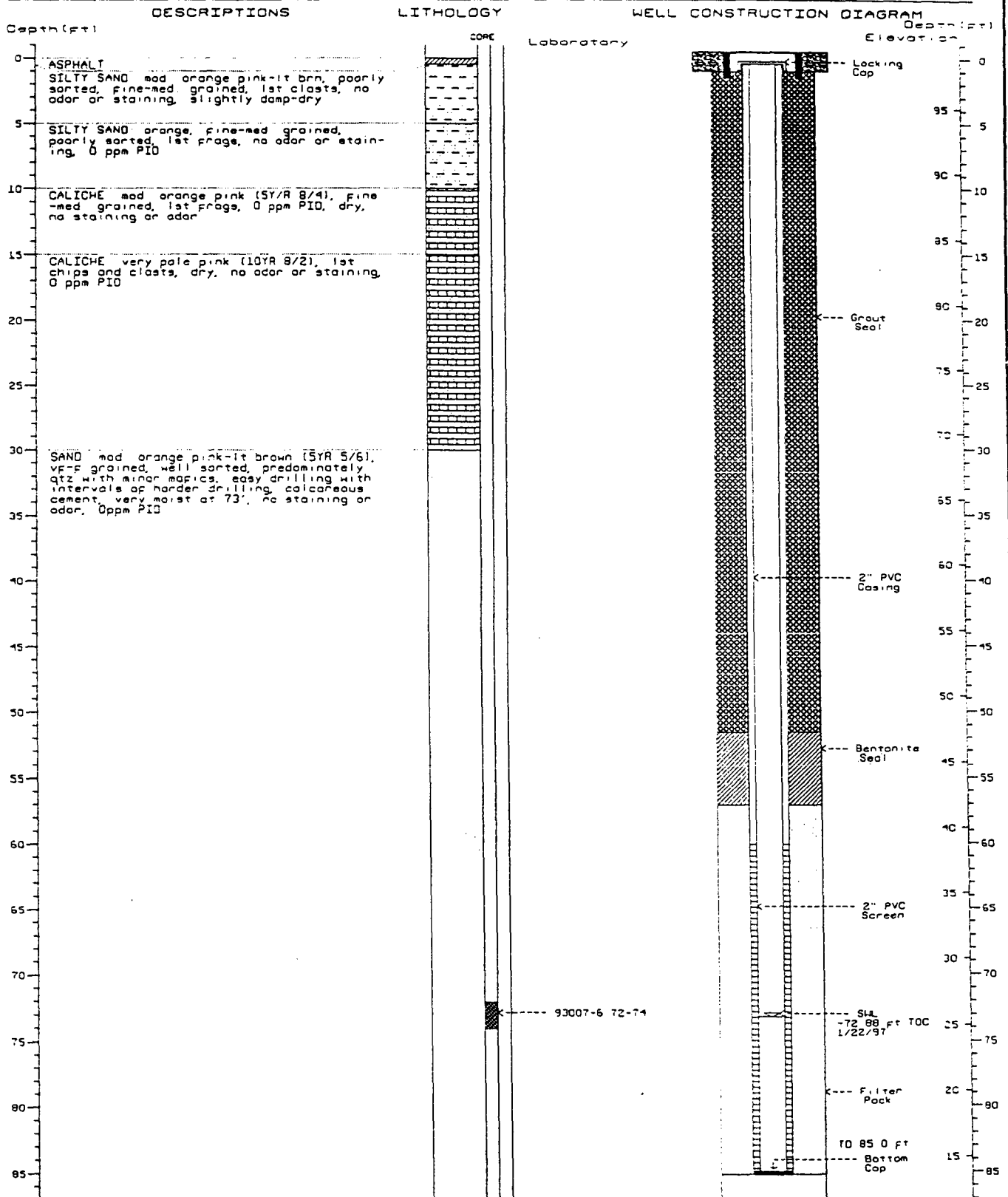
WELL OWNER: Dowell Schlumberger (JN 93007 2)
 DRILLING MET-CO: Air Rotary, 6 1/8 in. 00
 CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
 SCREEN: Factory, Slotted Casing, 0.020 in.
 FILTER PACK: 8/16 Mesh Silica Sand
 TOP OF CASING ELEVATION: 98.79 feet
 (Reference Datum: Arbitrary = 100.00 feet)



MONITORING WELL 93007 MW-6

LOCATION: Dowell Facility, Hobbs, New Mexico
 In southwest corner of the property
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Mattson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No. NA
 INSTALLATION DATE: January 20, 1997

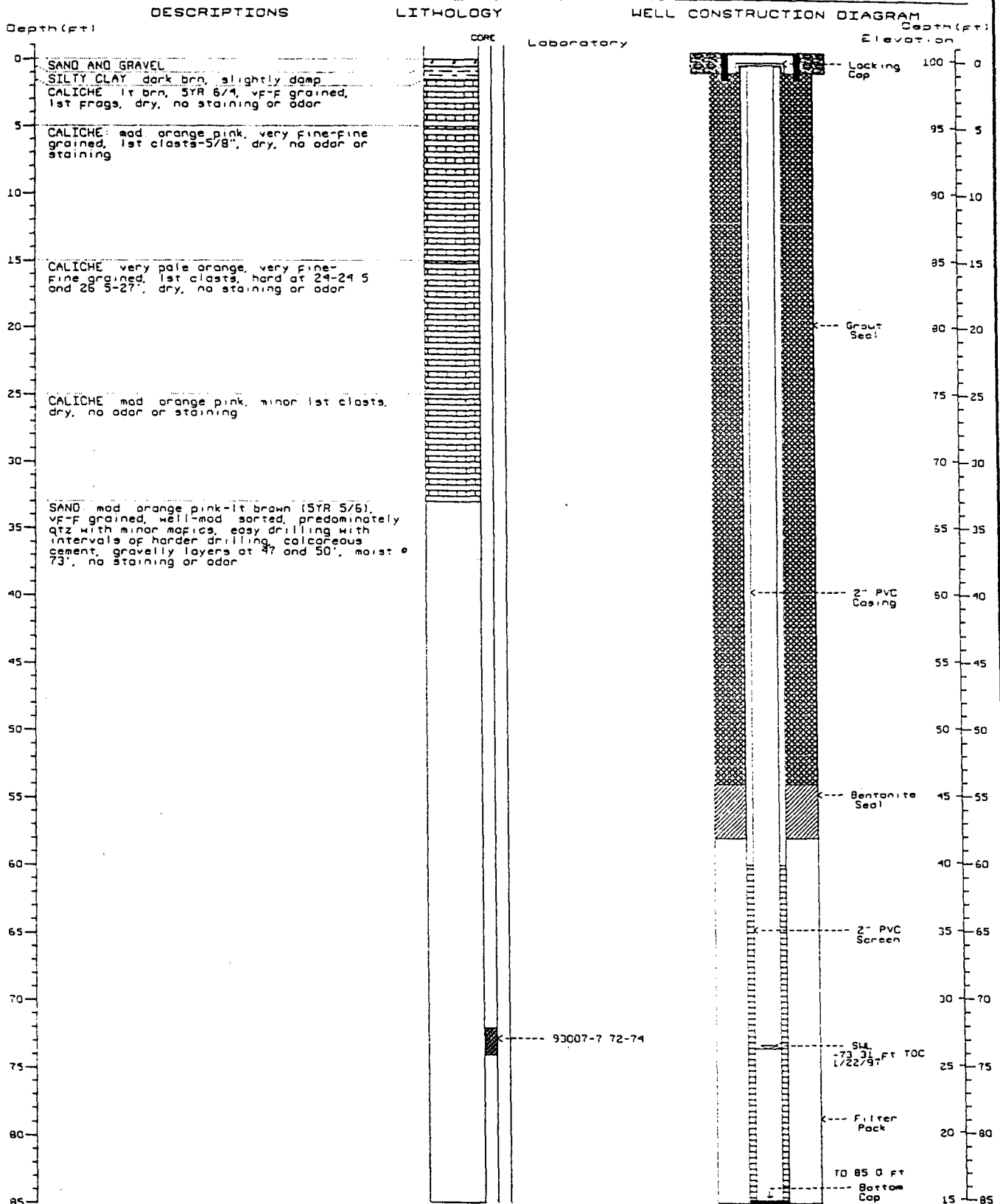
WELL OWNER: Dowell Schlumberger (JN 93007 2)
 DRILLING METHOD: Air Rotary, 6 1/8 in. OD
 CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
 SCREEN: Factory Slotted Casing, 0.020 in.
 FILTER PACK: 3/16 Mesh Silica Sand
 TOP OF CASING ELEVATION: 98.61 feet
 (Reference Datum Arbitrary = 100.00 feet)



MONITORING WELL 93007 MW-7

LOCATION: Dowell Facility, Hobbs, New Mexico
Near the south end of the truck scales
1105 West Bender Boulevard
LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Allen Eades)
DRILLERS LICENSE No: NA
INSTALLATION DATE: January 21, 1997

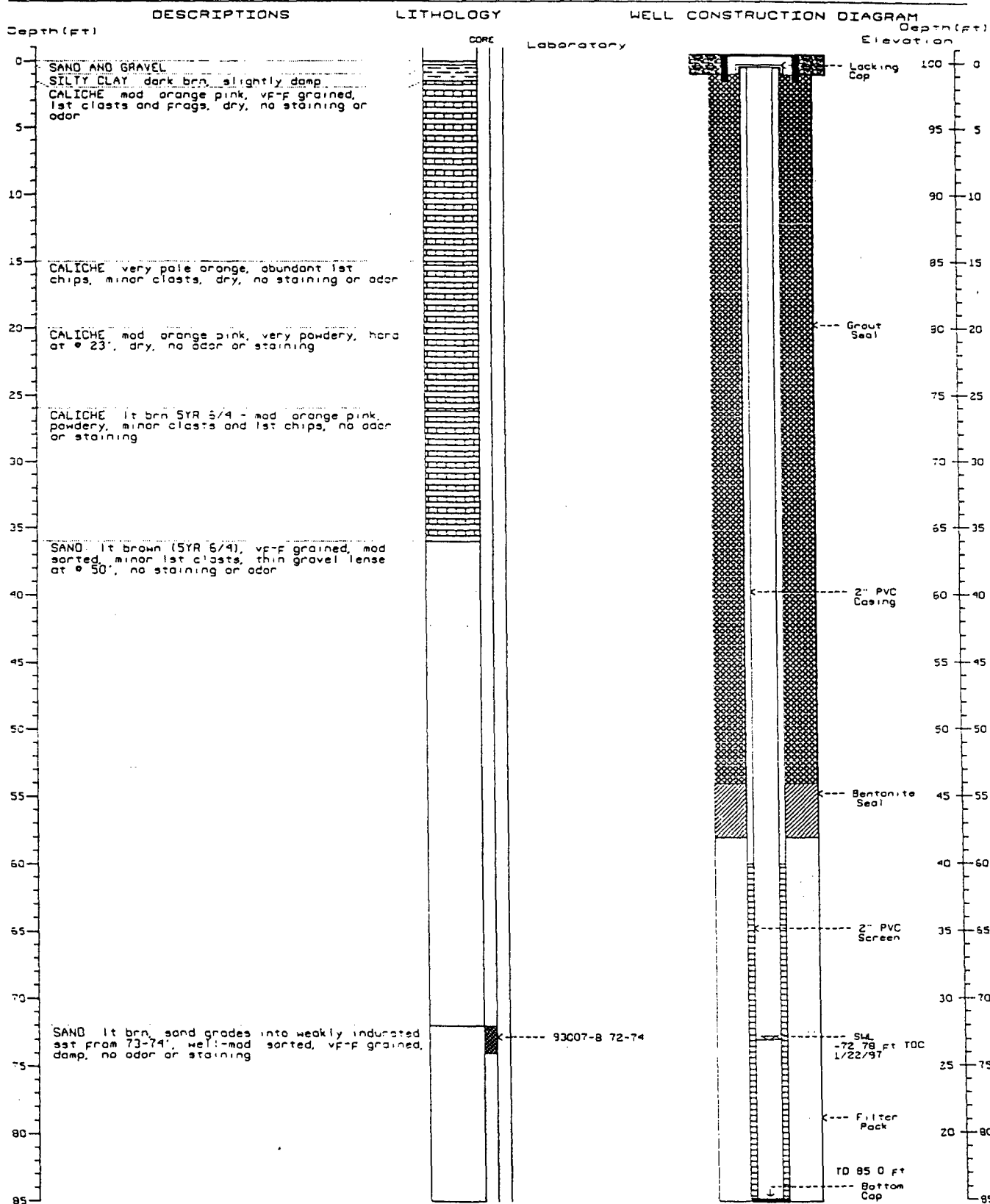
WELL OWNER: Dowell Schlumberger (JN 93007 2)
DRILLING METHOD: Air Rotary, 5 1/8 in. OD
CASING: 2 in. O.D. Flush Joint Sch. 40 PVC
SCREEN: Factory Started Casing, 0.020 in.
FILTER PACK: 3/15 Mesh Silica Sand
TOP OF CASING ELEVATION: 99.71 feet
(Reference Datum: Arbitrary = 100.00 feet)



MONITORING WELL 93007 MW-8

LOCATION Dowell Facility, Hobbs, New Mexico
Near the north end of the truck scales
1105 West Bender Boulevard
LOG Western Water Consultants Inc (Kevin Mattson)
DRILLER Eades Drilling (Allen Eades)
DRILLERS LICENSE No. NA
INSTALLATION DATE January 21, 1997

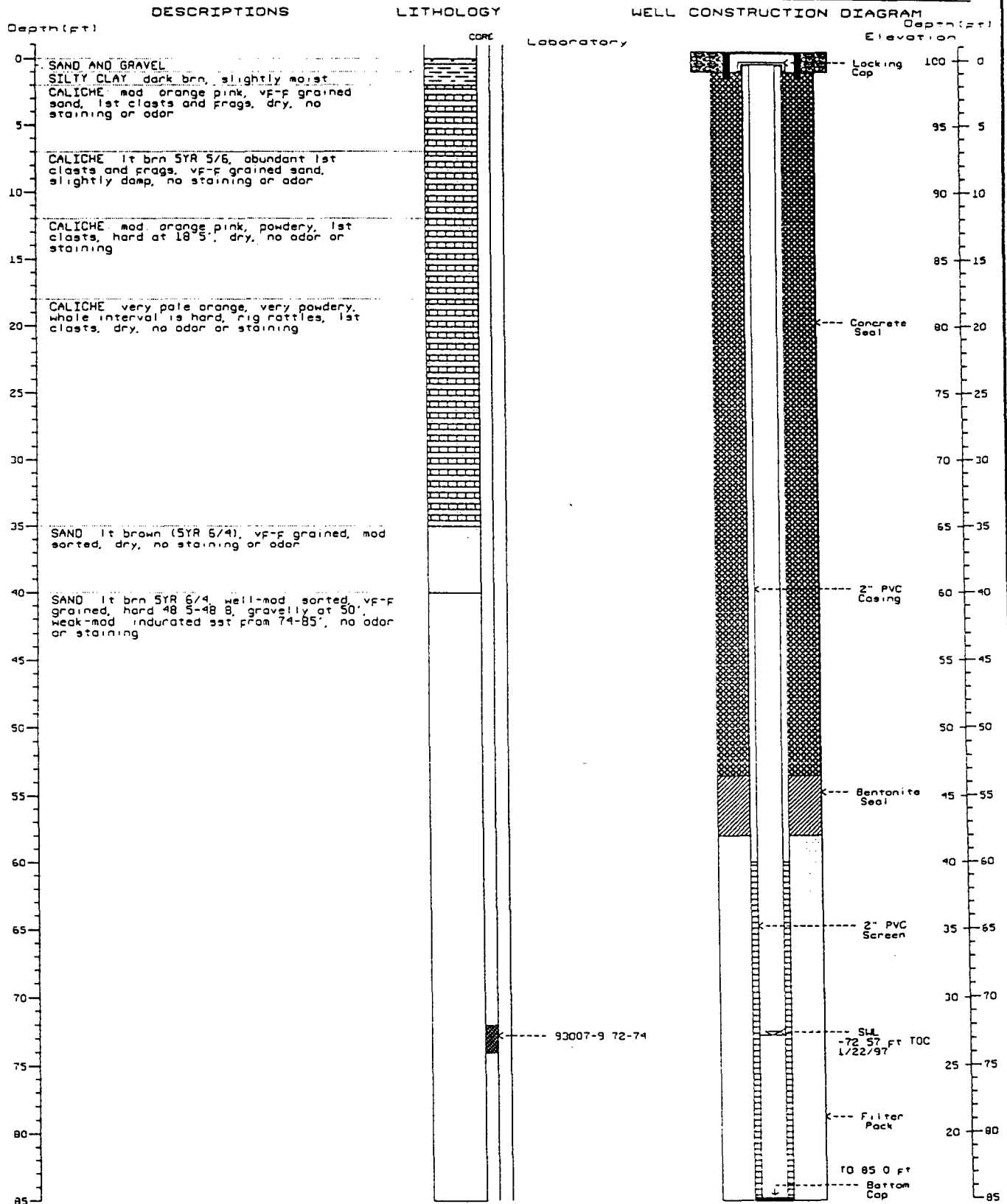
WELL OWNER Dowell Schlumberger (JN 93007 2)
DRILLING METHOD Air Rotary, 6 1/8 in. OD
CASING 2 in. Dia. Flush Joint Sch. 40 PVC
SCREEN Factory Slotted Casing, 0.020 in.
FILTER PACK 3/16 Mesh Silica Sand
TOP OF CASING ELEVATION 99.80 feet
(Reference Datum Arbitrary = 100.00 feet)



MONITORING WELL 93007 MW-9

LOCATION Dowell Facility, Hobbs, New Mexico
 Northeast corner of the property
 1105 West Bender Boulevard
 LOG Western Water Consultants Inc. (Kevin Mattson)
 DRILLER Eades Drilling (Allen Eades)
 DRILLERS LICENSE No. NA
 INSTALLATION DATE January 21, 1997

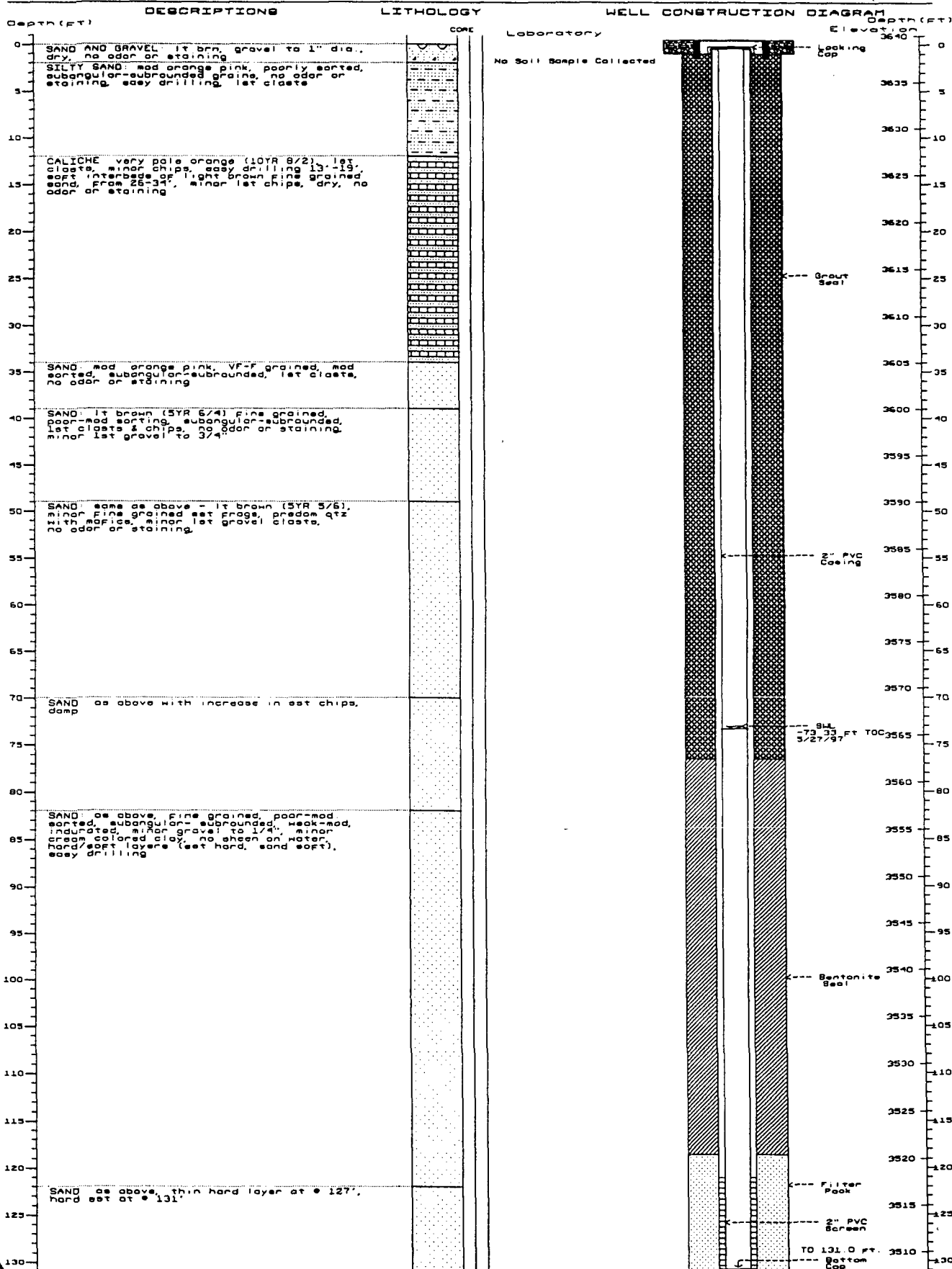
WELL OWNER Dowell Schlumberger (JUN 93007 2)
 DRILLING METHOD Air Rotary, 6 1/8 in. OD
 CASING 2 in. O.D. Flush Joint Sch. 40 PVC
 SCREEN Factory Slotted Casing, 0.020 in.
 FILTER PACK 8/16 Mesh Silica Sand
 TOP OF CASING ELEVATION 99.85 feet
 (Reference Datum Arbitrary = 100.00 feet)



MONITORING WELL 93007 MW-10

LOCATION: Dowell Facility, Hobbs, New Mexico
 Next to MW-8
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Matteson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No. NA
 INSTALLATION DATE: May 24, 1997

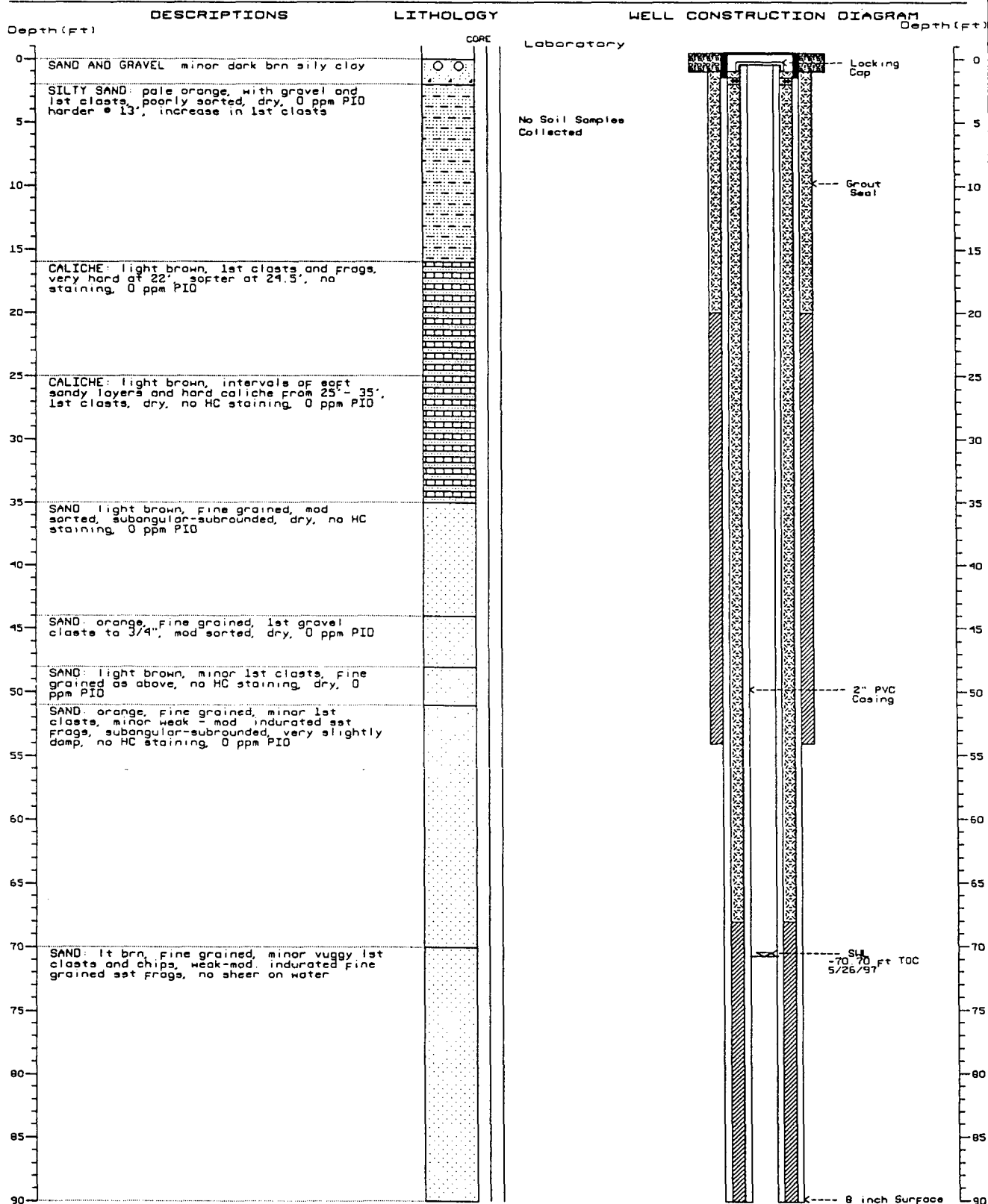
WELL OWNER: Dowell Schlumberger (JN 93007 2)
 DRILLING METHOD: Air Rotary, 5 1/8 in. OD
 CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
 SCREEN: Factory Slotted Casing, 0.020 in.
 FILTER PACK: 12/20 Mesh Silica Sand
 TOP OF CASING ELEVATION: 3638.86 Feet
 (Reference Datum: Mean Sea Level = 0.00 Feet)



MONITORING WELL 93007 MW-11

LOCATION: Dowell Facility, Hobbs, New Mexico
 Next to MW-1
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Matteson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No.: NA
 INSTALLATION DATE: May 14, 1997

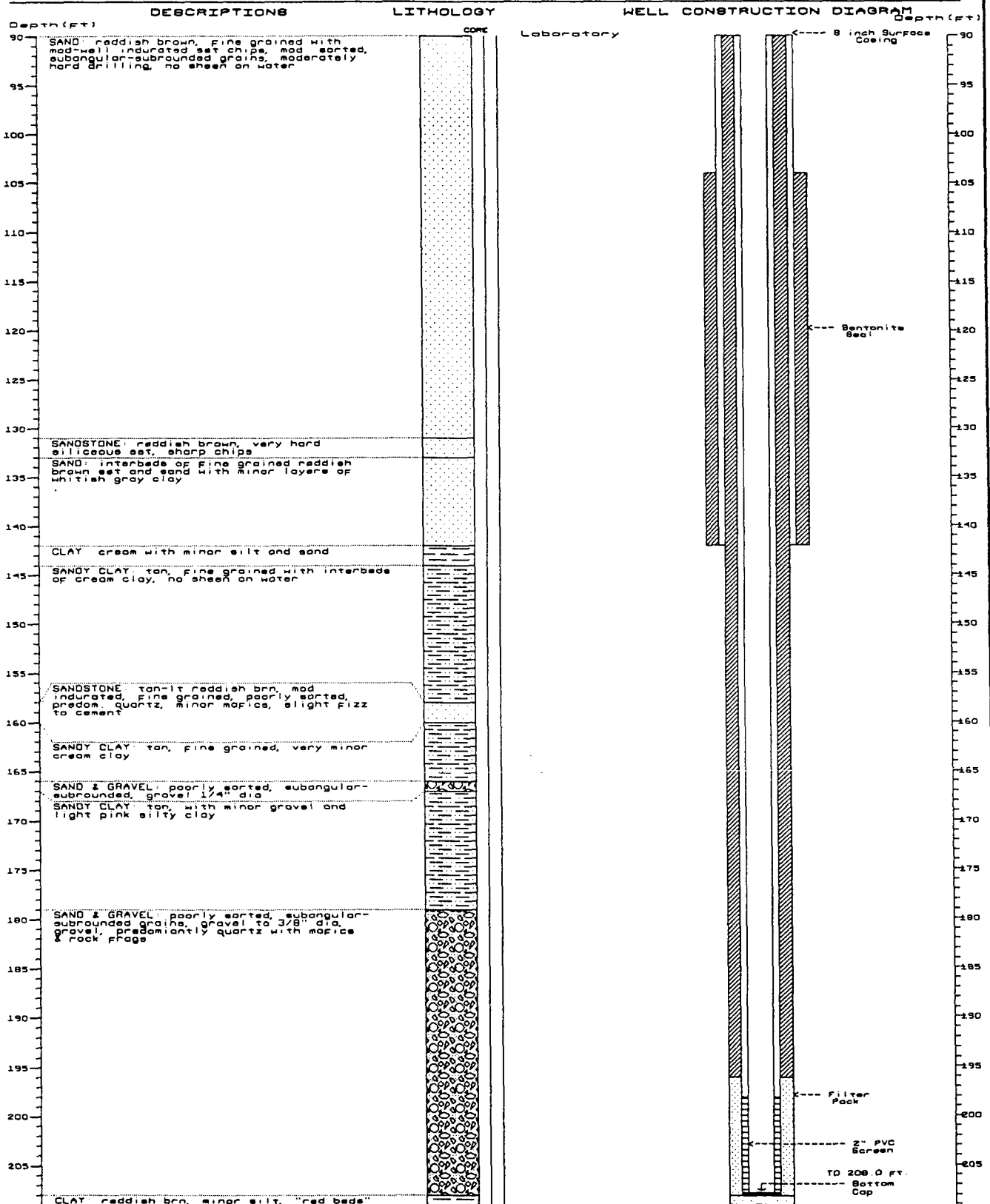
WELL OWNER: Dowell Schlumberger (JN 93007 2)
 DRILLING METHOD: Air Rotary, 6 1/8 in. OD
 CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
 SCREEN: Factory Slotted Casing, 0.020 in.
 FILTER PACK: 12/20 Mesh Silica Sand
 TOP OF CASING ELEVATION: 3638.55 feet
 (Reference Datum: Mean Sea Level = 0.00 feet)



MONITORING WELL 93007 MW-11 Continued

LOCATION: Dowell Facility, Hobbs, New Mexico
 Next to MW-1
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Matteson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No.: NA
 INSTALLATION DATE: May 14, 1997

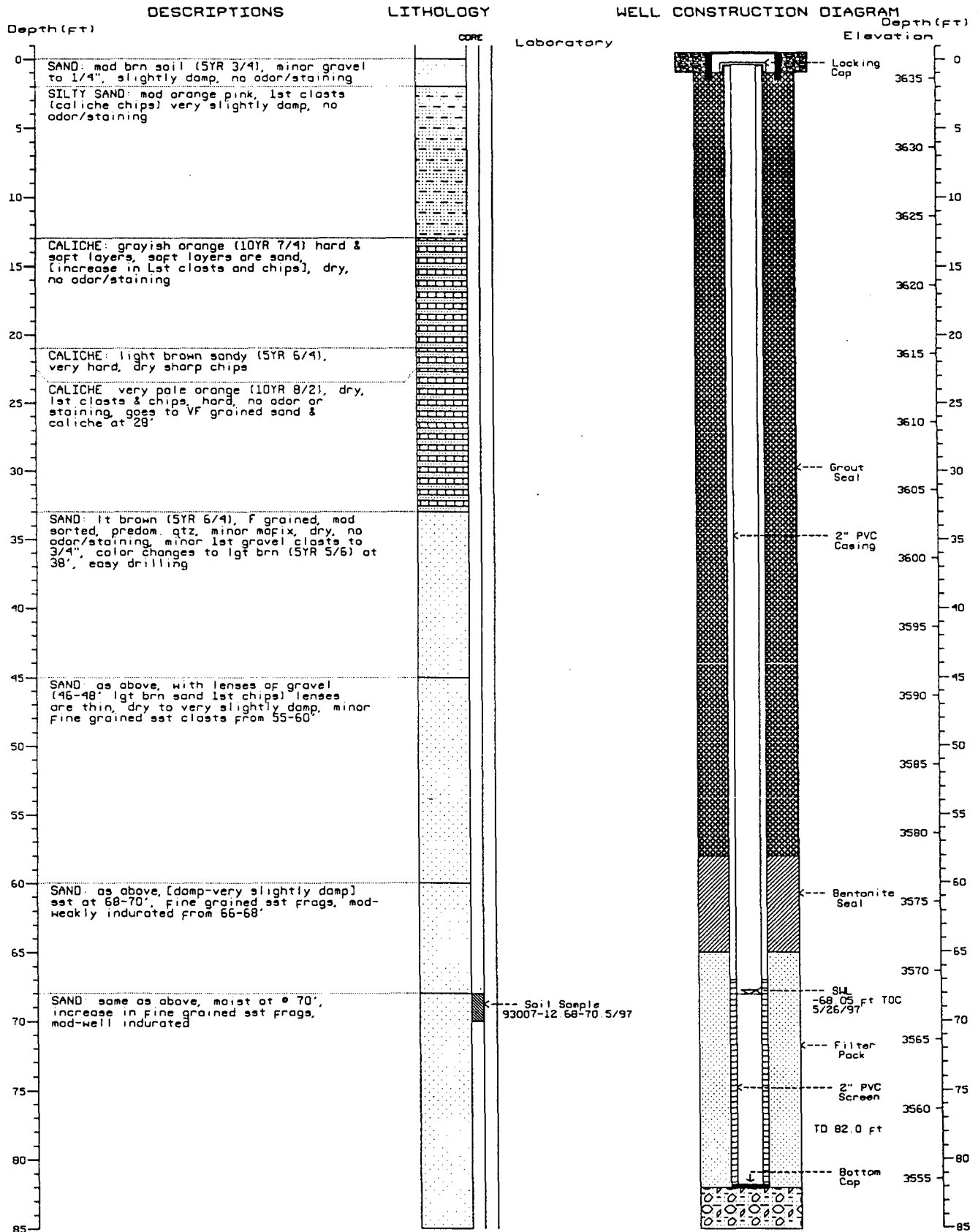
WELL OWNER: Dowell Schlumberger (JUN 93007 2)
 DRILLING METHOD: Air Rotary, 5 1/8 in. OD
 CASING: 2 in. O.D. Flueh Joint Sch. 40 PVC
 SCREEN: Factory Slotted Casing, 0.020 in.
 FILTER PACK: 12/20 Mesh Silica Sand
 TOP OF CASING ELEVATION: 3638.55 feet
 (Reference Datum: Mean Sea Level = 0.00 feet)



MONITORING WELL 93007 MW-12

LOCATION: Dowell Facility, Hobbs, New Mexico
 SW corner of yard
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Mattson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No.: NA
 INSTALLATION DATE: May 23, 1997

WELL OWNER: Dowell Schlumberger (JN 93007 2)
 DRILLING METHOD: Air Rotary, 6 1/8 in. OD
 CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
 SCREEN: Factory Slotted Casing, 0.020 in.
 FILTER PACK: 12/20 Mesh Silica Sand
 TOP OF CASING ELEVATION: 3636.15 feet
 (Reference Datum: Mean Sea Level = 0.00 feet)

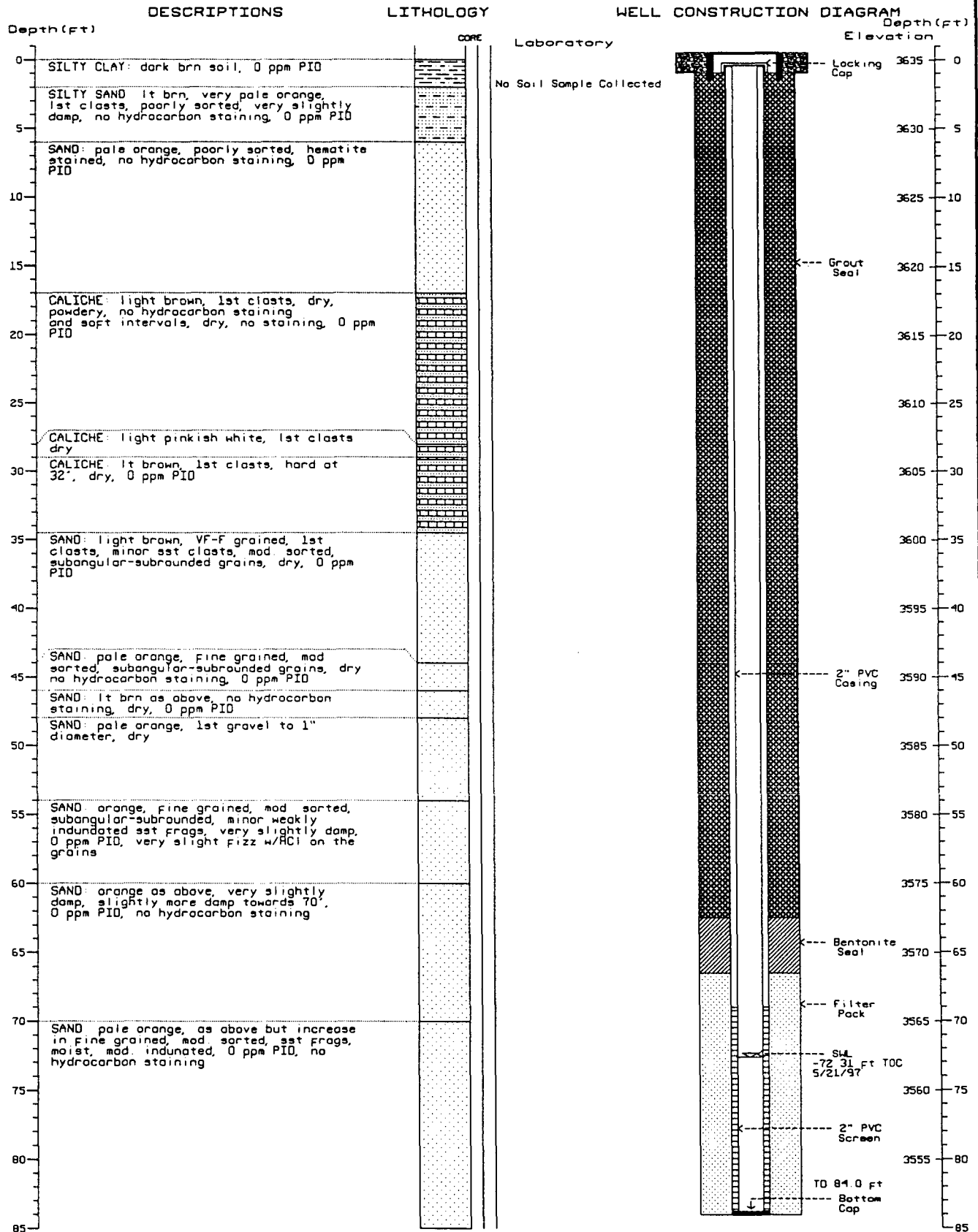


MONITORING WELL 93007 MW-13

LOCATION: Dowell Facility, Hobbs, New Mexico
T18S, R38E, Sec 21, S&1/4

LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Allen Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 14, 1997

WELL OWNER: Dowell Schlumberger (JN 93007 2)
DRILLING METHOD: Air Rotary, 6 1/8 in. OD
CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing, 0.020 in.
FILTER PACK: 12/20 Mesh Silica Sand
TOP OF CASING ELEVATION: 3635.39 feet
(Reference Datum: Mean Sea Level = 0.00 feet)

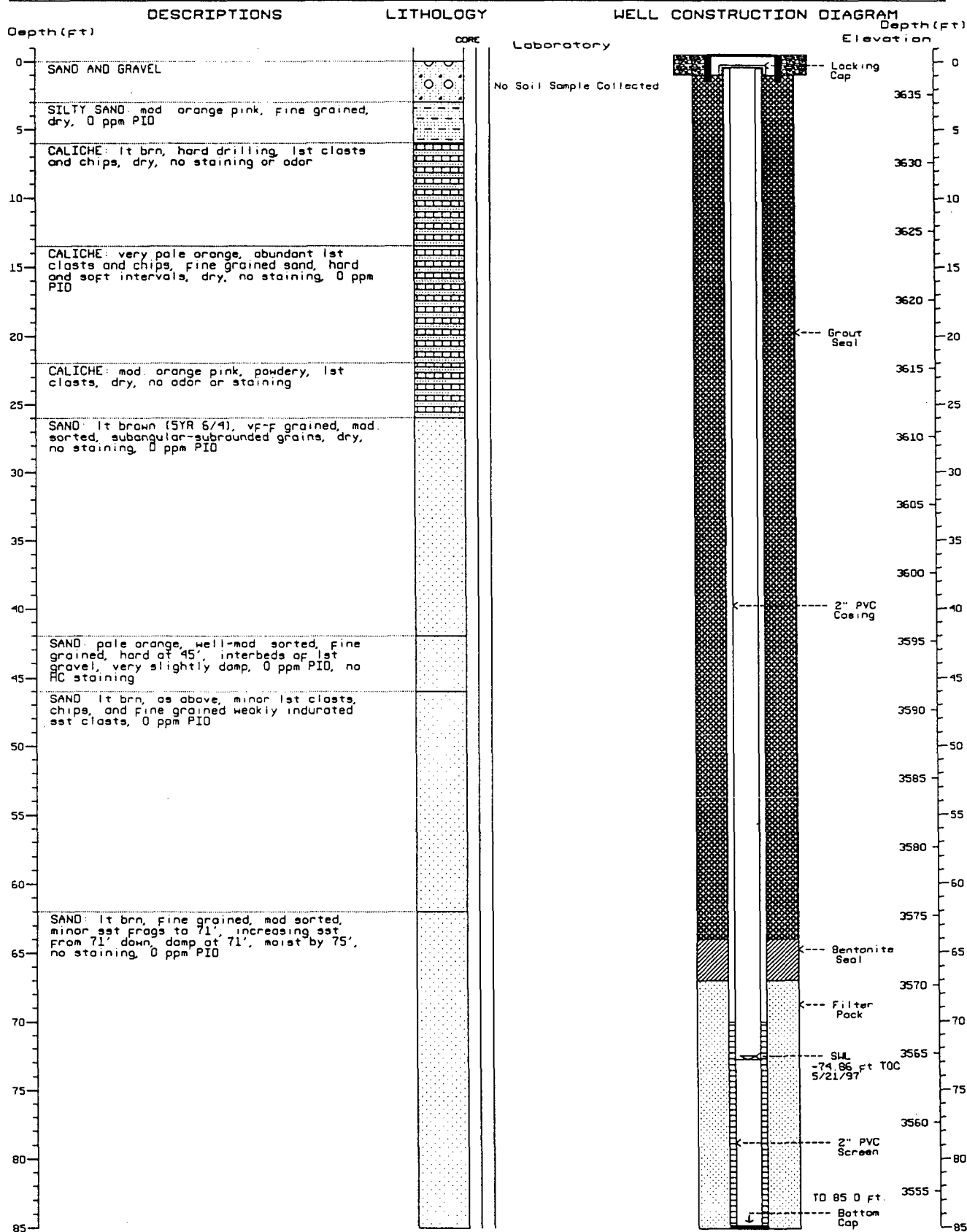


MONITORING WELL 93007 MW-14

LOCATION: Dowell Facility, Hobbs, New Mexico
T18S, R38E, Sec 21, SE.

LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Allen Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 14, 1997

WELL OWNER: Dowell Schlumberger (JN 93007 2)
DRILLING METHOD: Air Rotary, 6 1/8 in. OD
CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing, 0.020 in.
FILTER PACK: 12/20 Mesh Silica Sand
TOP OF CASING ELEVATION: 3637.19 feet
(Reference Datum: Mean Sea Level = 0 00 feet)

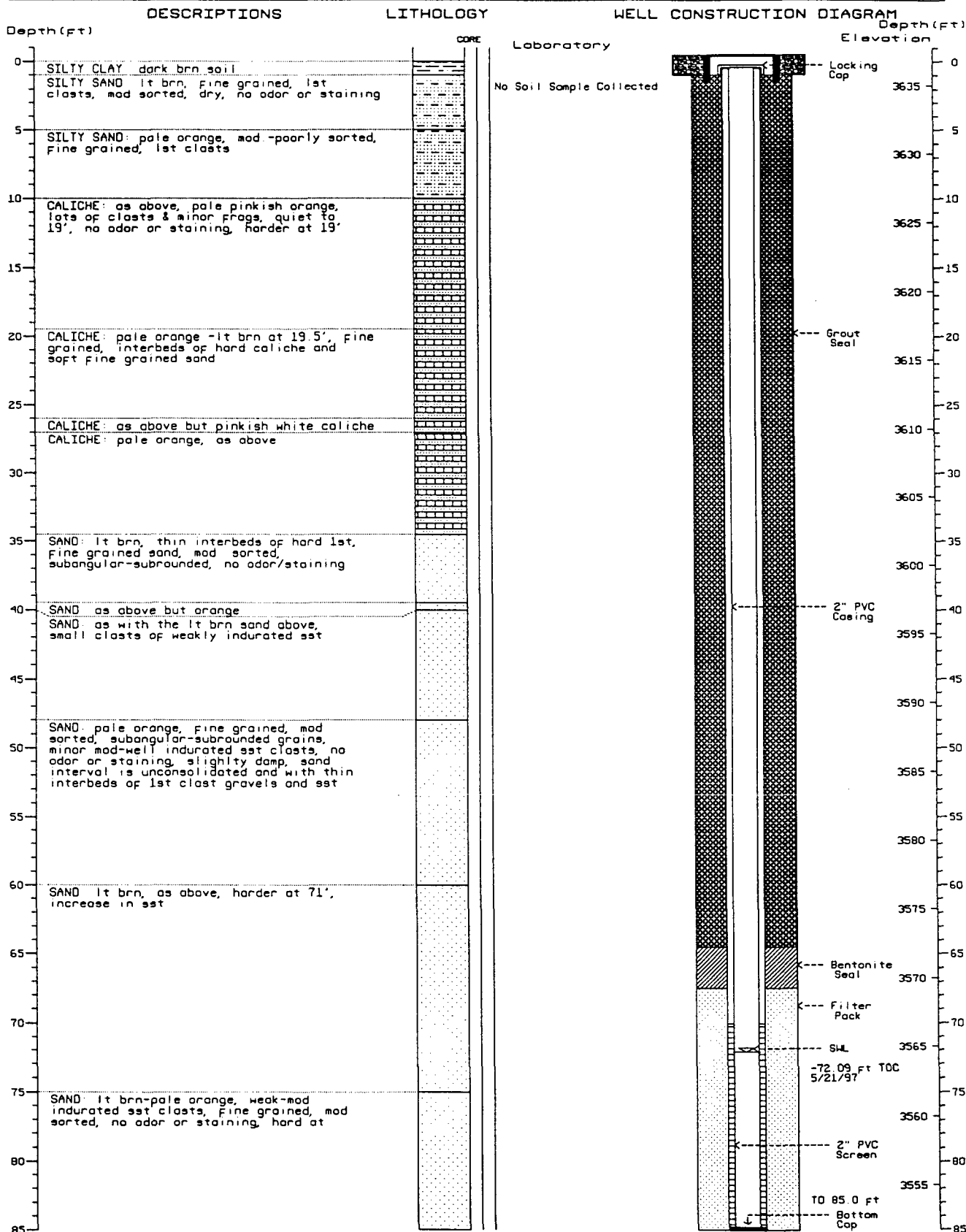


MONITORING WELL 93007 MW-15

LOCATION: Dowell Facility, Hobbs, New Mexico
T18S, R38E, Sec 21, SE.

LOG: Western Water Consultants Inc. (Kevin Mattison)
DRILLER: Eades Drilling (Allen Eades)
DRILLERS LICENSE No. NA
INSTALLATION DATE: May 13, 1997

WELL OWNER: Dowell Schlumberger (JN 93007 2)
DRILLING METHOD: Air Rotary, 6 1/8 in. OD
CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing, 0.020 in.
FILTER PACK: 12/20 Mesh Silica Sand
TOP OF CASING ELEVATION: 3636.57 feet
(Reference Datum: Mean Sea Level = 0.00 feet)

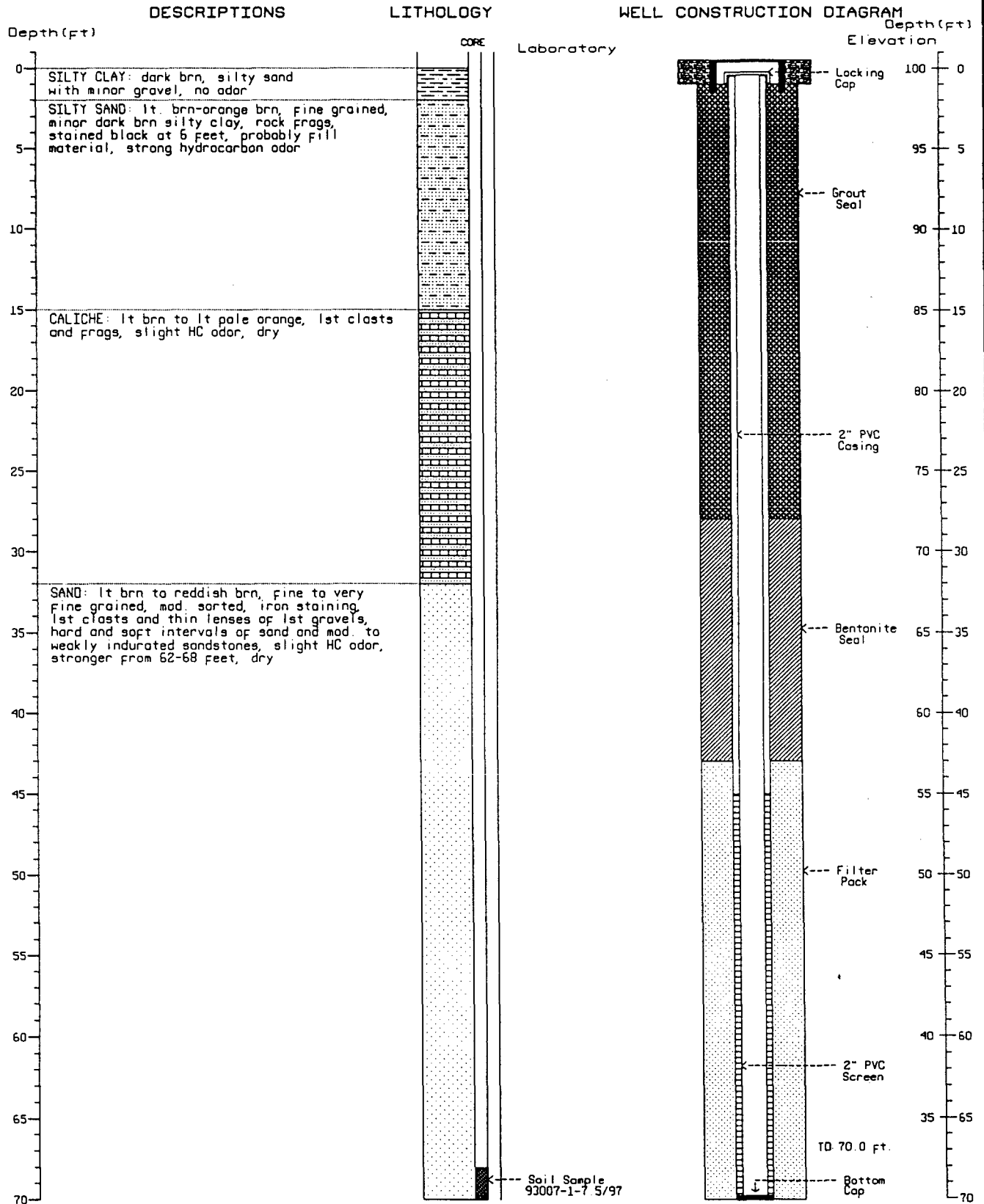


SOIL VAPOR EXTRACTION WELL 1-7

LOCATION: Dowell Schlumberger facility, Hobbs, NM
1105 West Bender Boulevard

LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Alan Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 12, 1997

WELL OWNER: Dowell Schlumberger (JN 93007)
DRILLING METHOD: Ingersoll Rand, 6 1/8 in. OD
CASING: 2 in Dia Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing: 0.020 in.
FILTER PACK: 12/20 Mesh Silica Sand

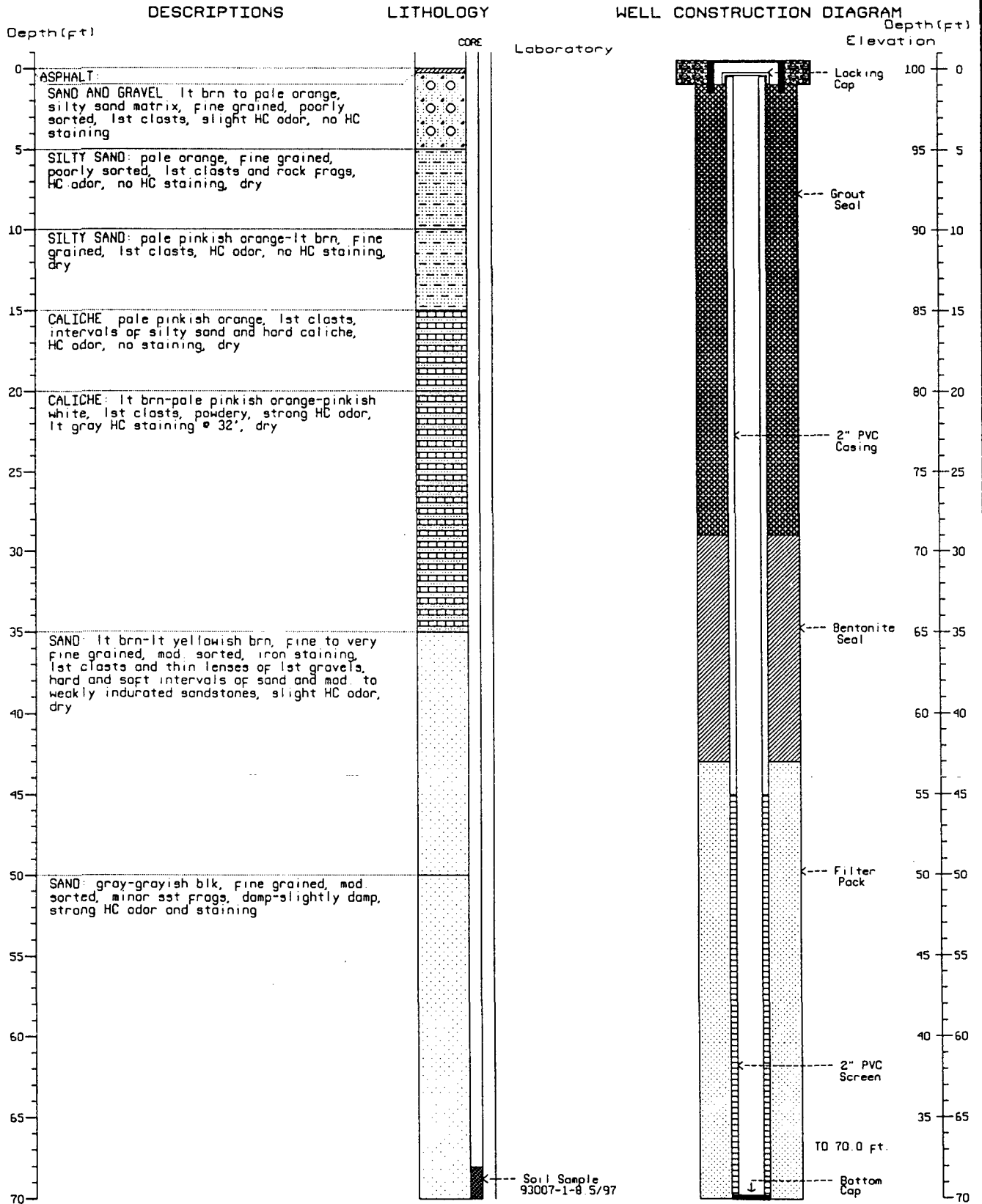


SOIL VAPOR EXTRACTION WELL 1-8

LOCATION: Dowell Schlumberger facility, Hobbs, NM
1105 West Bender Boulevard

LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Alan Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 12, 1997

WELL OWNER: Dowell Schlumberger (JN 93007)
DRILLING METHOD: Ingersoll Rand, 6 1/8 in. OD
CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing, 0.020 in
FILTER PACK: 12/20 Mesh Silica Sand

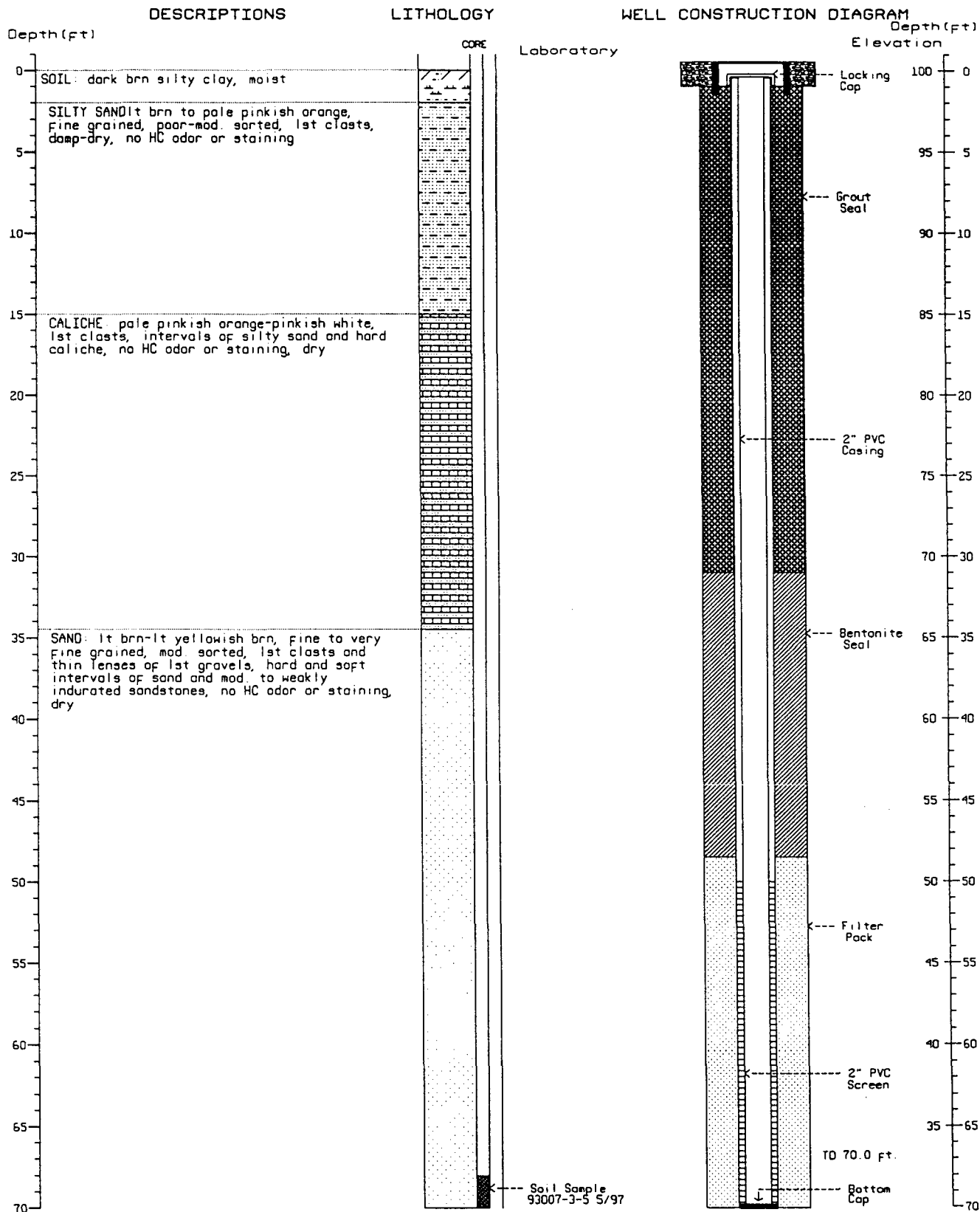


SOIL VAPOR EXTRACTION WELL 3-5

LOCATION: Dowell Schlumberger facility, Hobbs, NM
1105 West Bender Boulevard

LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Alan Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 12, 1997

WELL OWNER: Dowell Schlumberger (JN 93007)
DRILLING METHOD: Ingersoll Rand, 6 1/8 in. OD
CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing: 0.020 in
FILTER PACK: 12/20 Mesh Silica Sand

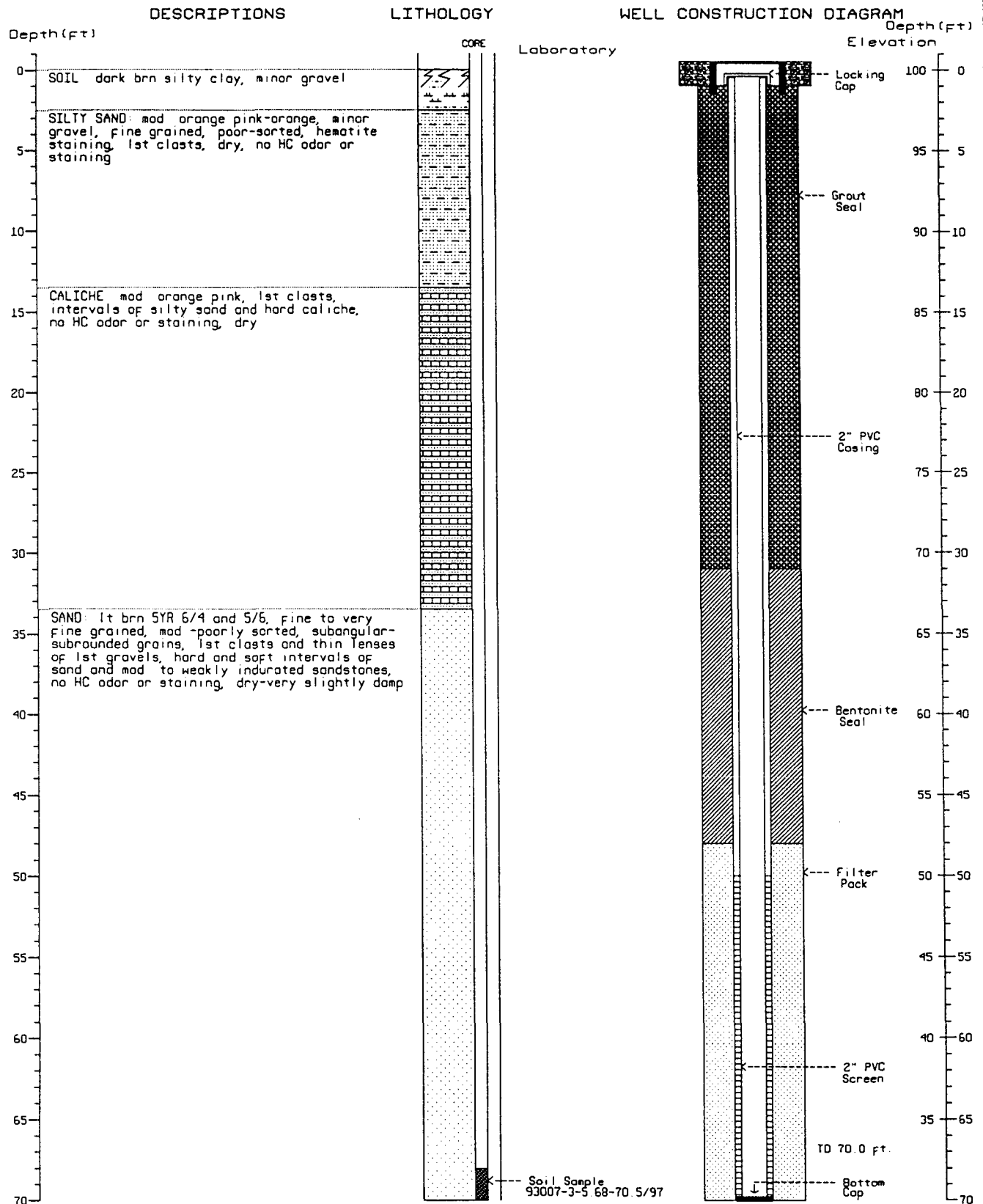


SOIL VAPOR EXTRACTION WELL 3-6

LOCATION: Dowell Schlumberger facility, Hobbs, NM
1105 West Bender Boulevard

LOG: Western Water Consultants Inc (Kevin Mattson)
DRILLER: Eades Drilling (Alan Eades)
DRILLERS LICENSE No NA
INSTALLATION DATE May 25, 1997

WELL OWNER: Dowell Schlumberger (JN 93007)
DRILLING METHOD: Ingersoll Rand, 6 1/8 in. OD
CASING: 2 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing: 0.020 in.
FILTER PACK: 12/20 Mesh Silica Sand

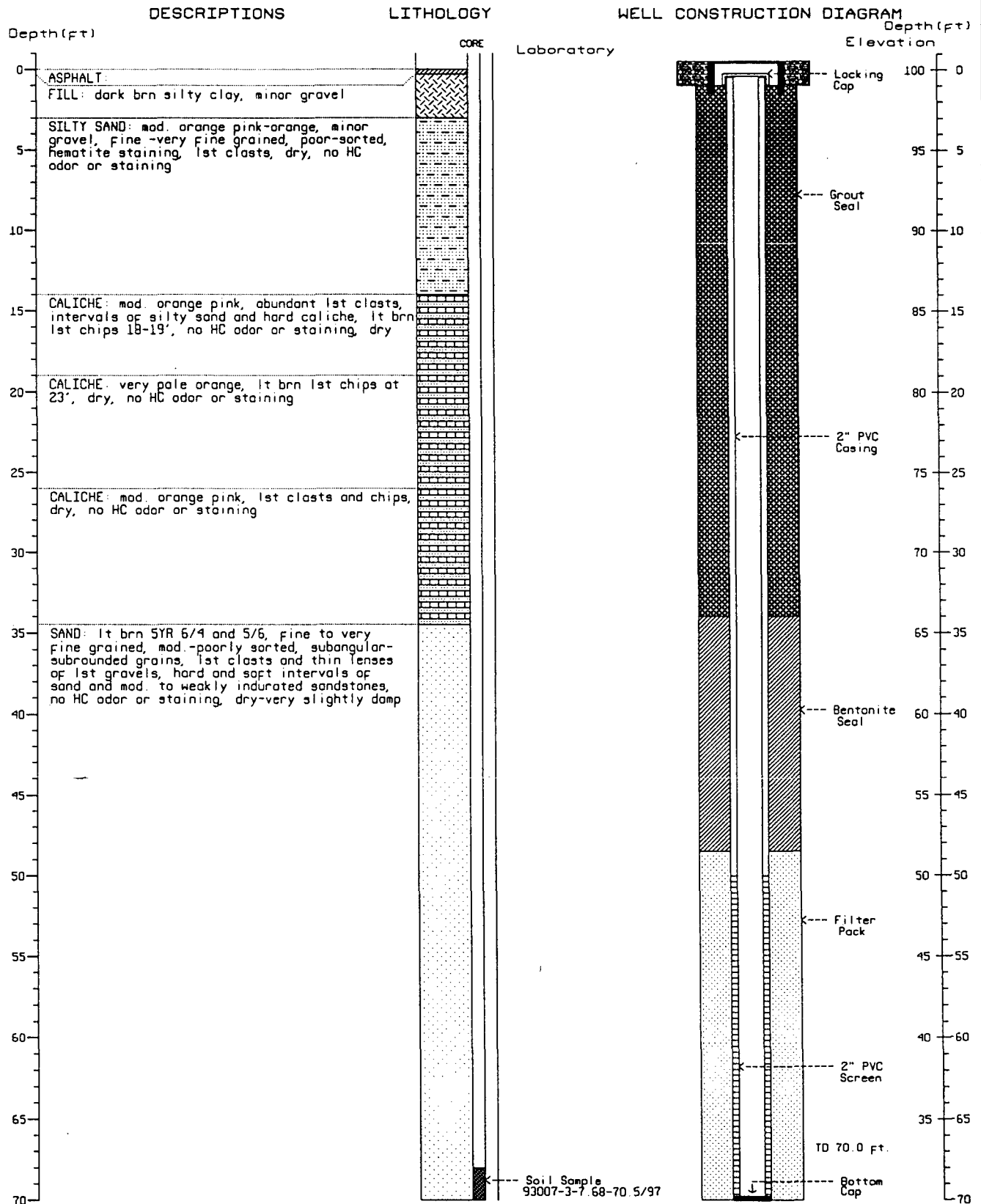


SOIL VAPOR EXTRACTION WELL 3-7

LOCATION: Dowell Schlumberger facility, Hobbs, NM
1105 West Bender Boulevard

LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Alan Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 24, 1997

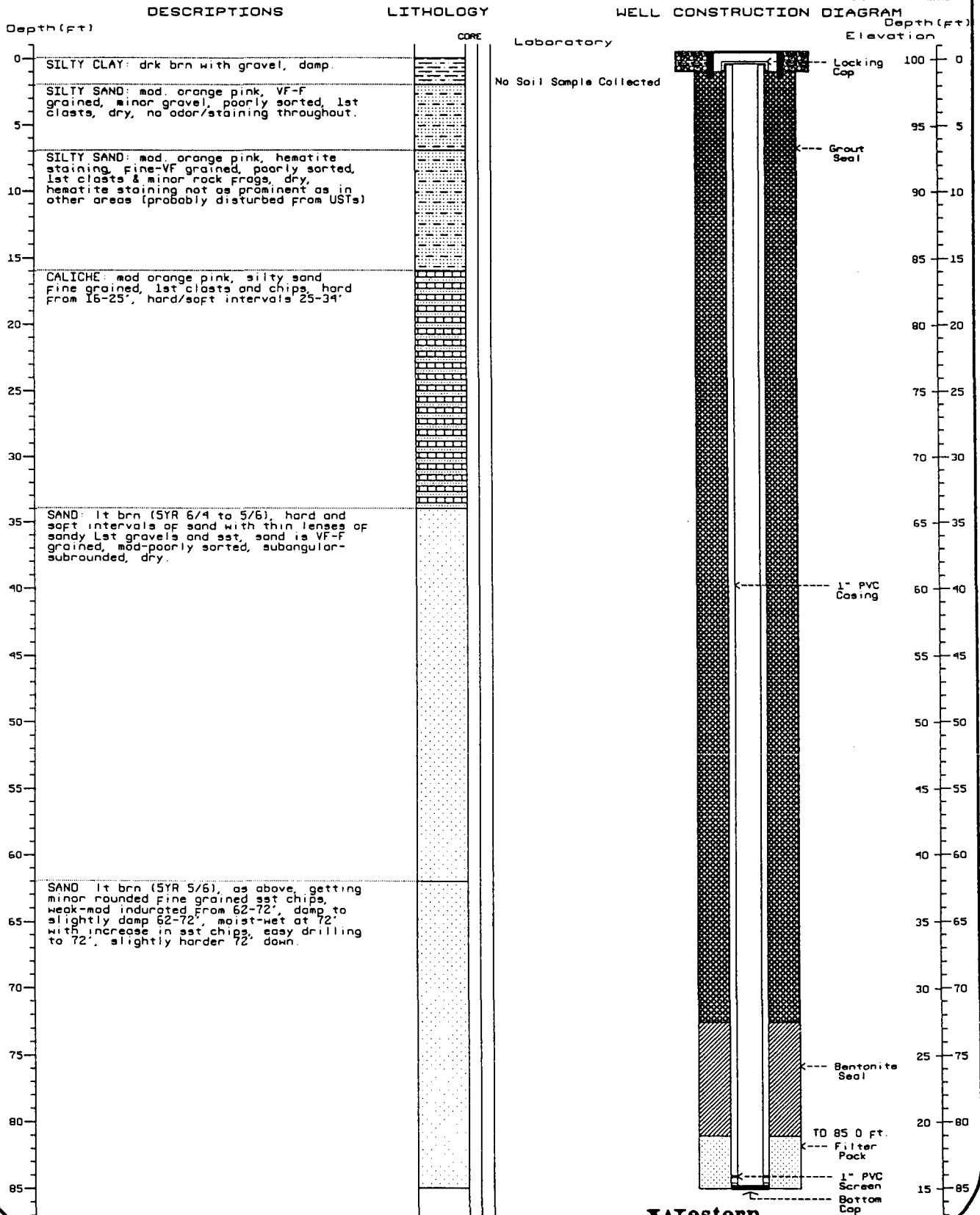
WELL OWNER: Dowell Schlumberger (JN 93007)
DRILLING METHOD: Ingersoll Rand, 6 1/8 in. OD
CASING: 2 in Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing, 0.020 in
FILTER PACK: 12/20 Mesh Silica Sand



AIR SPARGING WELL 93007 AS-1

LOCATION: Dowell Facility, Hobbs, New Mexico
 Former UST area
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Mattson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No.: NA
 INSTALLATION DATE: May 25, 1997

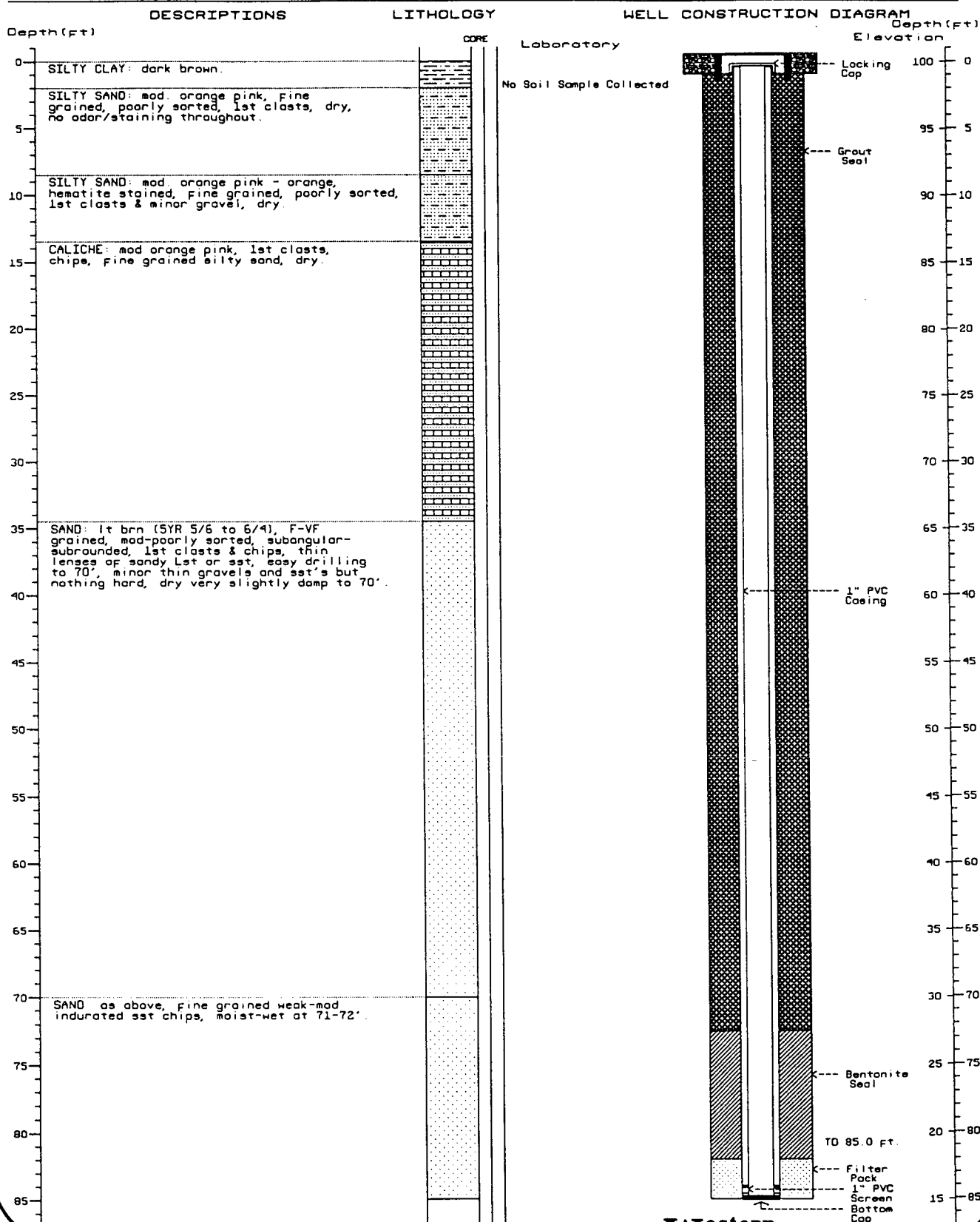
WELL OWNER: Dowell Schlumberger (JN 93007.2)
 DRILLING METHOD: Air Rotary, 6 1/8 in. OD
 CASING: 1 in. Dia. Flush Joint Sch. 40 PVC
 SCREEN: Factory Slotted Casing, 0.020 in.
 FILTER PACK: 8/16 Mesh Silica Sand



AIR SPARGING WELL 93007 AS-2

LOCATION: Dowell Facility, Hobbs, New Mexico
Former UST area
1105 West Bender Boulevard
LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Allen Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 26, 1997

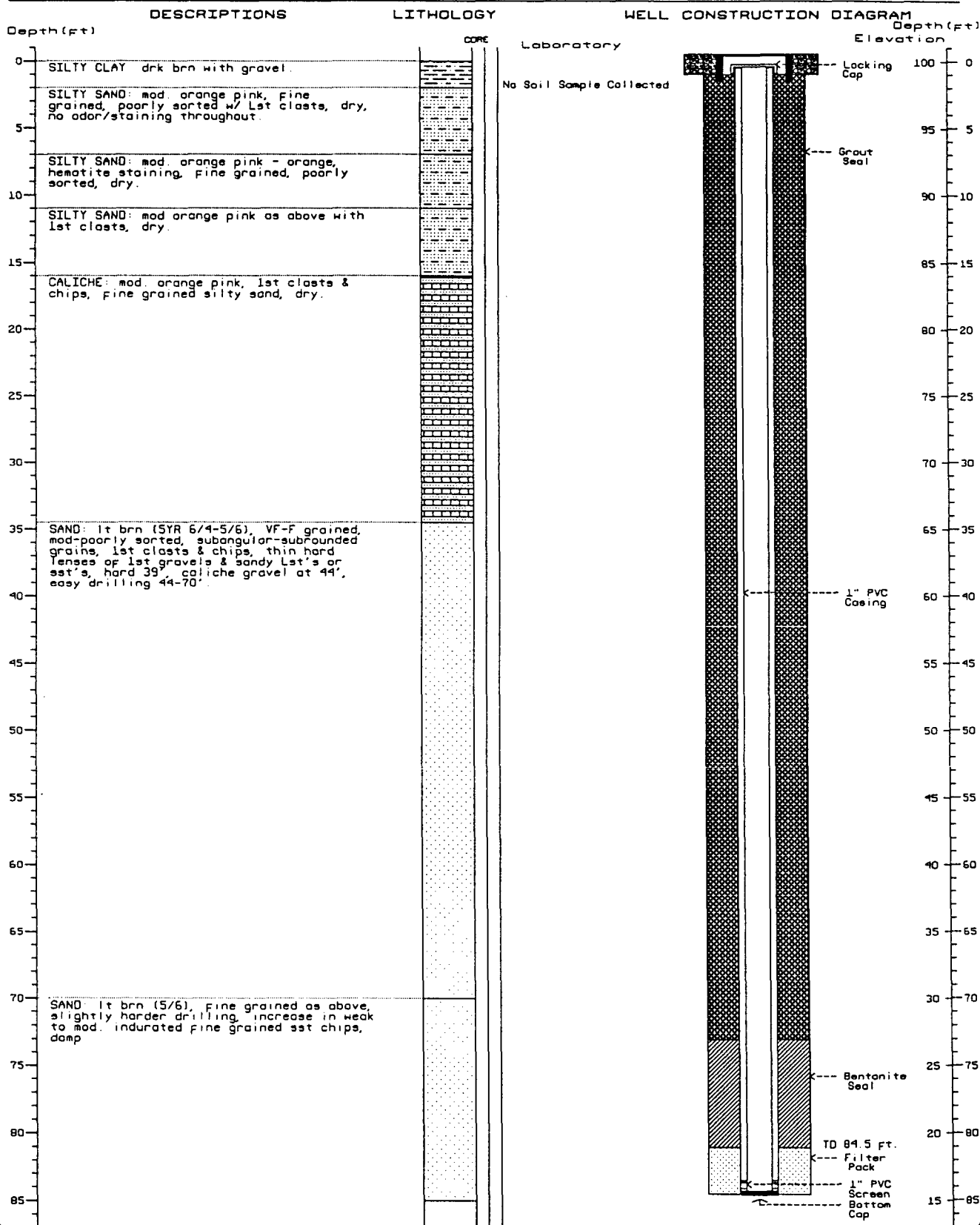
WELL OWNER: Dowell Schlumberger (JN 93007 2)
DRILLING METHOD: Air Rotary, 6 1/8 in. OD
CASING: 1 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing: 0.020 in.
FILTER PACK: 8/16 Mesh Silica Sand



AIR SPARGING WELL 93007 AS-3

LOCATION: Dowell Facility, Hobbs, New Mexico
Former UST area
1105 West Bender Boulevard
LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Allen Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 26, 1997

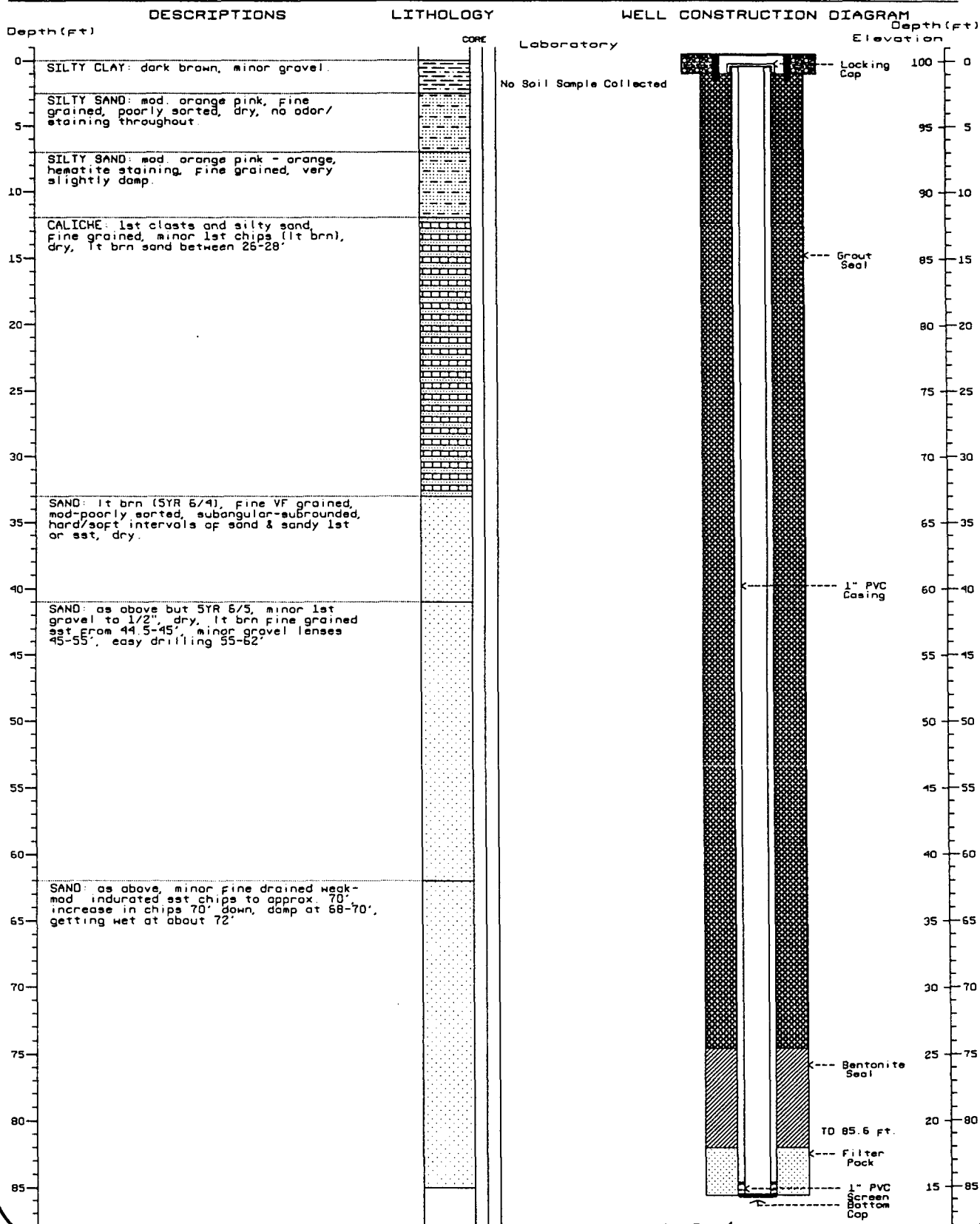
WELL OWNER: Dowell Schlumberger (JN 93007.2)
DRILLING METHOD: Air Rotary, 6 1/8 in. OD
CASING: 1 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing; 0.020 in.
FILTER PACK: 8/16 Mesh Silica Sand



AIR SPARGING WELL 93007 AS-4

LOCATION: Dowell Facility, Hobbs, New Mexico
Former UST area
1105 West Bender Boulevard
LOG: Western Water Consultants Inc. (Kevin Mattson)
DRILLER: Eades Drilling (Allen Eades)
DRILLERS LICENSE No.: NA
INSTALLATION DATE: May 25, 1997

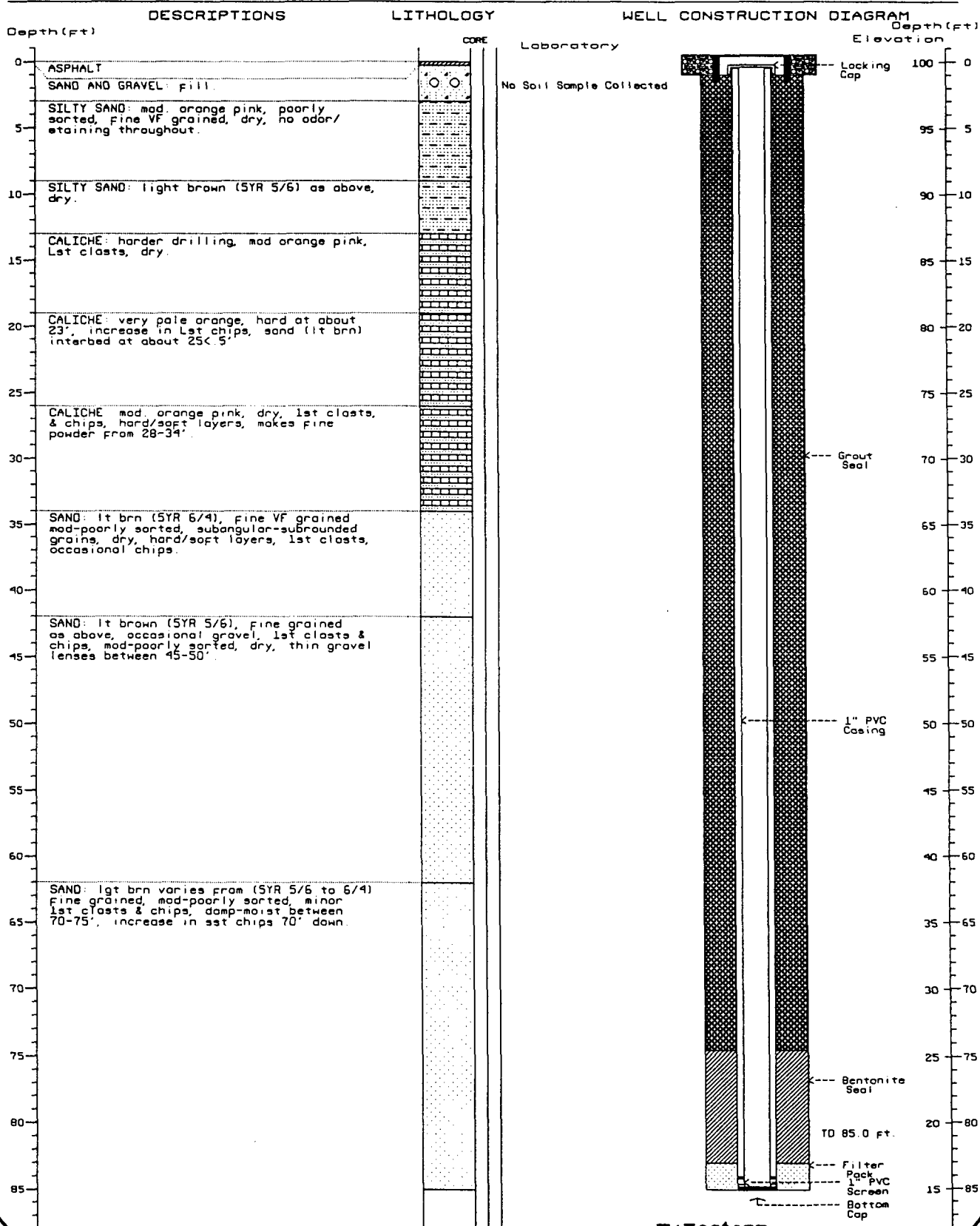
WELL OWNER: Dowell Schlumberger (JN 93007.2)
DRILLING METHOD: Air Rotary, 6 1/8 in. OD
CASING: 1 in. Dia. Flush Joint Sch. 40 PVC
SCREEN: Factory Slotted Casing, 0.020 in.
FILTER PACK: 8/16 Mesh Silica Sand



AIR SPARGING WELL 93007 AS-5

LOCATION: Dowell Facility, Hobbs, New Mexico
 Former UST area
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Mattson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No.: NA
 INSTALLATION DATE: May 24, 1997

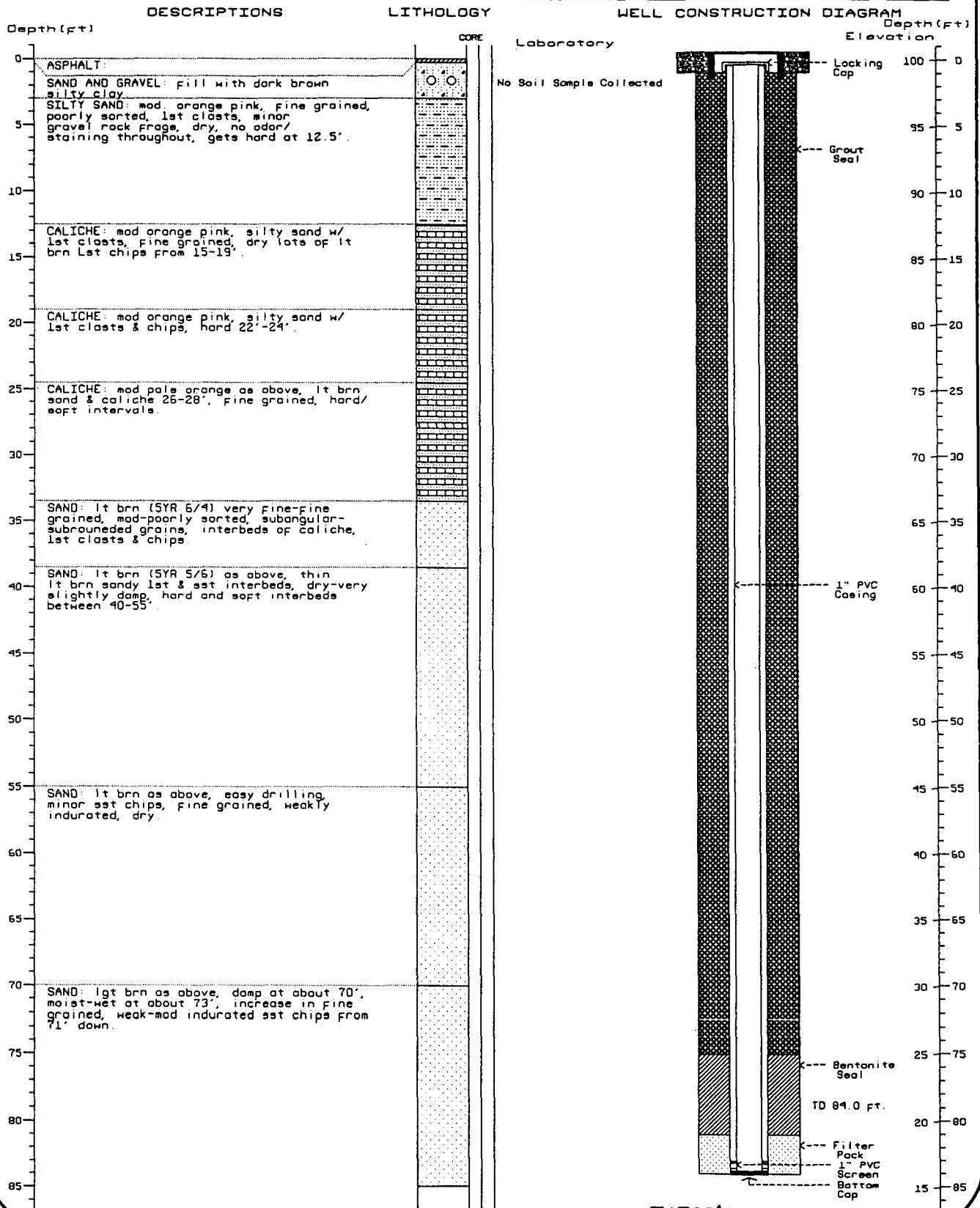
WELL OWNER: Dowell Schlumberger (JN 93007.2)
 DRILLING METHOD: Air Rotary, 6 1/8 in. OD
 CASING: 1 in. Dia. Flush Joint Sch. 40 PVC
 SCREEN: Factory Slotted Casing, 0.020 in.
 FILTER PACK: 8/16 Mesh Silica Sand



AIR SPARGING WELL 93007 AS-6

LOCATION: Dowell Facility, Hobbs, New Mexico
 Former UST area
 1105 West Bender Boulevard
 LOG: Western Water Consultants Inc. (Kevin Mattson)
 DRILLER: Eades Drilling (Allen Eades)
 DRILLERS LICENSE No.: NA
 INSTALLATION DATE: May 24, 1997

WELL OWNER: Dowell Schlumberger (JN 93007.2)
 DRILLING METHOD: Air Rotary, 6 1/8 in. OD
 CASING: 1 in. Dia. Flush Joint Sch. 40 PVC
 SCREEN: Factory Slotted Casing: 0.020 in.
 FILTER PACK: 8/16 Mesh Silica Sand



APPENDIX B

LABORATORY DATA REPORTS



ENERGY LABORATORIES, INC.

SHIPPING: 2393 SALT CREEK HIGHWAY • CASPER, WY 82601

MAILING: P.O. BOX 3258 • CASPER, WY 82602

E-mail: energy@trib.com • FAX: (307) 234-1639 • PHONE: (307) 235-0515 • TOLL FREE: (888) 235-0515

EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 93007-2.10/97
 Laboratory ID: C97-63853
 Matrix: Water
 Dilution Factor: 2

MW-2

Date Sampled: 10/16/97
 Date Received: 10/21/97
 Date Analyzed: 10/27/97
 Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	1.90 J	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	12.2	2.0
78-93-3	2 -Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	22.8	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	2.24	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	ND	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	0.64 J	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	11.5	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	1.30 J	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	1.02 J	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-2.10/97
Laboratory ID: C97-63853

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-2

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2 3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	1006701	827952	122%	50 - 200 %
Fluorobenzene	1575249	1469329	107%	50 - 200 %
1,4 - Difluorobenzene	1652223	1439497	115%	50 - 200 %
Chlorobenzene - d5	1248987	1170721	107%	50 - 200 %
1,4 - Dichlorobenzene - d4	623076	553925	112%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	9.34	93.4%	86 - 118 %
Toluene - d8	10.4	104%	88 - 110 %
4 - Bromofluorobenzene	9.76	97.6%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.99	99.9%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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Analyst: yw
Reviewed: sec

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93007-3.10/97

Laboratory ID: C97-63854

Matrix: Water

Dilution Factor: 2

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

mw-3

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	0.96 J	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	8.24	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	21.9	2.0
78-93-3	2 -Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	2.84	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	10.7	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	1.02 J	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	ND	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	21.6	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-3.10/97
Laboratory ID: C97-63854

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-3

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	2.10	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2 3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	1061931	827952	128%	50 - 200 %
Fluorobenzene	1632135	1469329	111%	50 - 200 %
1,4 - Difluorobenzene	1716799	1439497	119%	50 - 200 %
Chlorobenzene - d5	1281914	1170721	109%	50 - 200 %
1,4 - Dichlorobenzene - d4	651714	553925	118%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	9.20	92.0%	86 - 118 %
Toluene - d8	10.5	105%	88 - 110 %
4 - Bromofluorobenzene	9.76	97.6%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.99	99.9%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-4.10/97
Laboratory ID: C97-63855
Matrix: Water
Dilution Factor: 20

mw-4

Date Sampled: 10/16/97
Date Received: 10/21/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	20.0
74-87-3	Chloromethane	ND	20.0
75-01-4	Vinyl chloride (Chloroethene)	ND	20.0
74-83-9	Bromomethane	ND	20.0
75-00-3	Chloroethane	ND	20.0
75-69-4	Trichlorofluoromethane	ND	20.0
75-35-4	1,1 - Dichloroethene	103	20.0
75-09-2	Methylene chloride (Dichloromethane)	ND	20.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	20.0
75-34-3	1,1 - Dichloroethane	30.6	20.0
78-93-3	2 -Butanone (MEK)	ND	200
156-59-2	cis - 1,2 - Dichloroethene	ND	20.0
74-97-5	Bromochloromethane	ND	20.0
67-66-3	Chloroform (Trichloromethane)	14.2	J 20.0
594-20-7	2,2 - Dichloropropane	ND	20.0
71-55-6	1,1,1 - Trichloroethane	225	20.0
107-06-2	1,2 - Dichloroethane	11.4	J 20.0
563-58-6	1,1 - Dichloropropene	ND	20.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	20.0
71-43-2	Benzene	ND	20.0
74-95-3	Dibromomethane	ND	20.0
78-87-5	1,2 - Dichloropropane	ND	20.0
79-01-6	Trichloroethene	ND	20.0
75-27-4	Bromodichloromethane	ND	20.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	20.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	20.0
79-00-5	1,1,2 - Trichloroethane	ND	20.0
108-88-3	Toluene	ND	20.0
106-93-4	1,2 - Dibromoethane	ND	20.0
142-28-9	1,3 - Dichloropropane	ND	20.0
124-48-1	Dibromochloromethane	ND	20.0
127-18-4	Tetrachloroethene	1,170	20.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	20.0
108-90-7	Chlorobenzene	ND	20.0
100-41-4	Ethylbenzene	ND	20.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	40.0
75-25-2	Bromoform (Tribromomethane)	ND	20.0
100-42-5	Styrene (Ethenylbenzene)	ND	20.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	20.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	20.0
96-18-4	1,2,3 - Trichloropropane	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-4.10/97
Laboratory ID: C97-63855

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw - A

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	20.0
108-86-1	Bromobenzene	ND	20.0
103-65-1	n - Propylbenzene	ND	20.0
95-49-8	2 - Chlorotoluene	ND	20.0
106-43-4	4 - Chlorotoluene	ND	20.0
108-67-8	1,3,5 - Trimethylbenzene	ND	20.0
98-06-6	tert - Butylbenzene	ND	20.0
95-63-6	1,2,4 - Trimethylbenzene	ND	20.0
135-98-8	sec - Butylbenzene	ND	20.0
541-73-1	1,3 - Dichlorobenzene	ND	20.0
106-46-7	1,4 - Dichlorobenzene	ND	20.0
99-87-6	4-Isopropyltoluene	ND	20.0
95-50-1	1,2 - Dichlorobenzene	ND	20.0
104-51-8	n - Butylbenzene	ND	20.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	100
120-82-1	1,2,4 - Trichlorobenzene	ND	20.0
91-20-3	Naphthalene	ND	20.0
87-68-3	Hexachlorobutadiene	ND	20.0
87-61-6	1,2 3 - Trichlorobenzene	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1076540	827952	130%	50 - 200 %
Fluorobenzene	1657924	1469329	113%	50 - 200 %
1,4 - Difluorobenzene	1722760	1439497	120%	50 - 200 %
Chlorobenzene - d5	1294874	1170721	111%	50 - 200 %
1,4 - Dichlorobenzene - d4	633801	553925	114%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.04	90.4%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.60	96.0%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.85	98.5%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



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EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-5.10/97
Laboratory ID: C97-63856
Matrix: Water
Dilution Factor: 10

mw-5

Date Sampled: 10/16/97
Date Received: 10/21/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	66.0	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	214	10.0
78-93-3	2 -Butanone (MEK)	ND	100
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	38.9	10.0
107-06-2	1,2 - Dichloroethane	3.80	J 10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	58.3	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	ND	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	69.9	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	26.8	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	7.90	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-5.10/97
Laboratory ID: C97-63856

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-5

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	5.20	J 10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	11.1	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	10.5	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2 3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	1054890	827952	127%	50 - 200 %
Fluorobenzene	1642822	1469329	112%	50 - 200 %
1,4 - Difluorobenzene	1700429	1439497	118%	50 - 200 %
Chlorobenzene - d5	1270074	1170721	108%	50 - 200 %
1,4 - Dichlorobenzene - d4	625172	553925	113%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	9.07	90.7%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.71	97.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.0	100%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 93007-6.10/97
 Laboratory ID: C97-63857
 Matrix: Water
 Dilution Factor: 2

mw-6

Date Sampled: 10/16/97
 Date Received: 10/21/97
 Date Analyzed: 10/27/97
 Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	25.4	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	82.1	2.0
78-93-3	2 -Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	3.16	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	2.38	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	5.68	2.0
107-06-2	1,2 - Dichloroethane	1.70	J 2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	2.92	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	1.96	J 2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	18.5	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-6.10/97
Laboratory ID: C97-63857

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-6

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	2.88	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2 3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	1053307	827952	127%	50 - 200 %
Fluorobenzene	1644729	1469329	112%	50 - 200 %
1,4 - Difluorobenzene	1716441	1439497	119%	50 - 200 %
Chlorobenzene - d5	1285838	1170721	110%	50 - 200 %
1,4 - Dichlorobenzene - d4	659843	553925	119%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	9.25	92.5%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.97	99.7%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.97	99.7%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: R:\Reports\CLIENTS.97\Western_Water_Consultants\ORGANIC.CAS\97_63853.xls

Analyst: yw
Reviewed: sec



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EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 93007-7.10/97
 Laboratory ID: C97-63858
 Matrix: Water
 Dilution Factor: 5

MW-7

Date Sampled: 10/16/97
 Date Received: 10/21/97
 Date Analyzed: 10/27/97
 Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorofluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	49.9	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	64.8	5.0
78-93-3	2 -Butanone (MEK)	ND	50.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	ND	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	3.00	J 5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	17.9	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	2.30	5.0
108-88-3	Toluene	ND	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	90.9	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	2.25	5.0
100-41-4	Ethylbenzene	ND	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-7.10/97
Laboratory ID: C97-63858

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-7

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	ND	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	ND	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	ND	5.0
135-98-8	sec - Butylbenzene	ND	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	57.3	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2 3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Pentafluorobenzene	1024755	827952	124%	50 - 200 %
Fluorobenzene	1603713	1469329	109%	50 - 200 %
1,4 - Difluorobenzene	1648914	1439497	115%	50 - 200 %
Chlorobenzene - d5	1226648	1170721	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	605199	553925	109%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Dibromofluoromethane	9.00	90.0%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.71	97.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.85	98.5%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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Analyst: yw
Reviewed: sec

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93007-8.10/97

Laboratory ID: C97-63859

Matrix: Water

Dilution Factor: 200

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

mw-8

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	200
74-87-3	Chloromethane	ND	200
75-01-4	Vinyl chloride (Chloroethene)	ND	200
74-83-9	Bromomethane	ND	200
75-00-3	Chloroethane	ND	200
75-69-4	Trichlorofluoromethane	ND	200
75-35-4	1,1 - Dichloroethene	858	200
75-09-2	Methylene chloride (Dichloromethane)	ND	200
156-60-5	trans - 1, 2 - Dichloroethene	ND	200
75-34-3	1,1 - Dichloroethane	ND	200
78-93-3	2 -Butanone (MEK)	ND	2,000
156-59-2	cis - 1,2 - Dichloroethene	ND	200
74-97-5	Bromochloromethane	ND	200
67-66-3	Chloroform (Trichloromethane)	ND	200
594-20-7	2,2 - Dichloropropane	ND	200
71-55-6	1,1,1 - Trichloroethane	596	200
107-06-2	1,2 - Dichloroethane	ND	200
563-58-6	1,1 - Dichloropropene	ND	200
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	200
71-43-2	Benzene	ND	200
74-95-3	Dibromomethane	ND	200
78-87-5	1,2 - Dichloropropane	ND	200
79-01-6	Trichloroethene	ND	200
75-27-4	Bromodichloromethane	ND	200
10061-01-5	cis - 1,3 - Dichloropropene	ND	200
10061-02-6	trans - 1,3 - Dichloropropene	ND	200
79-00-5	1,1,2 - Trichloroethane	ND	200
108-88-3	Toluene	ND	200
106-93-4	1,2 - Dibromoethane	ND	200
142-28-9	1,3 - Dichloropropane	ND	200
124-48-1	Dibromochloromethane	ND	200
127-18-4	Tetrachloroethene	4,570	200
630-20-6	1,1,1,2 - Tetrachloroethane	ND	200
108-90-7	Chlorobenzene	ND	200
100-41-4	Ethylbenzene	ND	200
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	400
75-25-2	Bromoform (Tribromomethane)	ND	200
100-42-5	Styrene (Ethenylbenzene)	ND	200
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	200
79-34-5	1,1,2,2 - Tetrachloroethane	ND	200
96-18-4	1,2,3 - Trichloropropane	ND	200

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-8.10/97
Laboratory ID: C97-63859

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-8

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	200
108-86-1	Bromobenzene	ND	200
103-65-1	n - Propylbenzene	ND	200
95-49-8	2 - Chlorotoluene	ND	200
106-43-4	4 - Chlorotoluene	ND	200
108-67-8	1,3,5 - Trimethylbenzene	ND	200
98-06-6	tert - Butylbenzene	ND	200
95-63-6	1,2,4 - Trimethylbenzene	ND	200
135-98-8	sec - Butylbenzene	ND	200
541-73-1	1,3 - Dichlorobenzene	ND	200
106-46-7	1,4 - Dichlorobenzene	ND	200
99-87-6	4-Isopropyltoluene	ND	200
95-50-1	1,2 - Dichlorobenzene	ND	200
104-51-8	n - Butylbenzene	ND	200
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	1,000
120-82-1	1,2,4 - Trichlorobenzene	ND	200
91-20-3	Naphthalene	ND	200
87-68-3	Hexachlorobutadiene	ND	200
87-61-6	1,2 3 - Trichlorobenzene	ND	200

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1014983	827952	123%	50 - 200 %
Fluorobenzene	1592338	1469329	108%	50 - 200 %
1,4 - Difluorobenzene	1643809	1439497	114%	50 - 200 %
Chlorobenzene - d5	1205231	1170721	103%	50 - 200 %
1,4 - Dichlorobenzene - d4	583757	553925	105%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.06	90.6%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.68	96.8%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.82	98.2%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



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EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 93007-9.10/97
 Laboratory ID: C97-63860
 Matrix: Water
 Dilution Factor: 20

mw-9

Date Sampled: 10/16/97
 Date Received: 10/21/97
 Date Analyzed: 10/27/97
 Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	20.0
74-87-3	Chloromethane	ND	20.0
75-01-4	Vinyl chloride (Chloroethene)	ND	20.0
74-83-9	Bromomethane	ND	20.0
75-00-3	Chloroethane	ND	20.0
75-69-4	Trichlorofluoromethane	ND	20.0
75-35-4	1,1 - Dichloroethene	278	20.0
75-09-2	Methylene chloride (Dichloromethane)	ND	20.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	20.0
75-34-3	1,1 - Dichloroethane	18.6	20.0
78-93-3	2 -Butanone (MEK)	ND	200
156-59-2	cis - 1,2 - Dichloroethene	ND	20.0
74-97-5	Bromochloromethane	ND	20.0
67-66-3	Chloroform (Trichloromethane)	ND	20.0
594-20-7	2,2 - Dichloropropane	ND	20.0
71-55-6	1,1,1 - Trichloroethane	104	20.0
107-06-2	1,2 - Dichloroethane	ND	20.0
563-58-6	1,1 - Dichloropropene	ND	20.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	20.0
71-43-2	Benzene	ND	20.0
74-95-3	Dibromomethane	ND	20.0
78-87-5	1,2 - Dichloropropane	ND	20.0
79-01-6	Trichloroethene	ND	20.0
75-27-4	Bromodichloromethane	ND	20.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	20.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	20.0
79-00-5	1,1,2 - Trichloroethane	ND	20.0
108-88-3	Toluene	ND	20.0
106-93-4	1,2 - Dibromoethane	ND	20.0
142-28-9	1,3 - Dichloropropane	ND	20.0
124-48-1	Dibromochloromethane	ND	20.0
127-18-4	Tetrachloroethene	1,160	20.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	20.0
108-90-7	Chlorobenzene	ND	20.0
100-41-4	Ethylbenzene	ND	20.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	40.0
75-25-2	Bromoform (Tribromomethane)	ND	20.0
100-42-5	Styrene (Ethenylbenzene)	ND	20.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	20.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	20.0
96-18-4	1,2,3 - Trichloropropane	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-9.10/97
Laboratory ID: C97-63860

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-9

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	20.0
108-86-1	Bromobenzene	ND	20.0
103-65-1	n - Propylbenzene	ND	20.0
95-49-8	2 - Chlorotoluene	ND	20.0
106-43-4	4 - Chlorotoluene	ND	20.0
108-67-8	1,3,5 - Trimethylbenzene	ND	20.0
98-06-6	tert - Butylbenzene	ND	20.0
95-63-6	1,2,4 - Trimethylbenzene	ND	20.0
135-98-8	sec - Butylbenzene	ND	20.0
541-73-1	1,3 - Dichlorobenzene	ND	20.0
106-46-7	1,4 - Dichlorobenzene	ND	20.0
99-87-6	4-Isopropyltoluene	ND	20.0
95-50-1	1,2 - Dichlorobenzene	ND	20.0
104-51-8	n - Butylbenzene	ND	20.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	100
120-82-1	1,2,4 - Trichlorobenzene	ND	20.0
91-20-3	Naphthalene	ND	20.0
87-68-3	Hexachlorobutadiene	ND	20.0
87-61-6	1,2,3 - Trichlorobenzene	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1097144	827952	133%	50 - 200 %
Fluorobenzene	1693039	1469329	115%	50 - 200 %
1,4 - Difluorobenzene	1745351	1439497	121%	50 - 200 %
Chlorobenzene - d5	1310510	1170721	112%	50 - 200 %
1,4 - Dichlorobenzene - d4	640756	553925	116%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	8.83	88.3%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.49	94.9%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.78	97.8%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



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EPA METHOD 8260

Client: **Western Water Consultants**

Sample ID: 93007-10.10/97

Laboratory ID: C97-63861

Matrix: Water

Dilution Factor: 2

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

mw-10

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	1.98	J 2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	ND	2.0
78-93-3	2 -Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	ND	2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	1.06	J 2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	ND	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	7.96	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-10.10/97
Laboratory ID: C97-63861

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-10

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2,3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1007977	827952	122%	50 - 200 %
Fluorobenzene	1587533	1469329	108%	50 - 200 %
1,4 - Difluorobenzene	1639939	1439497	114%	50 - 200 %
Chlorobenzene - d5	1220287	1170721	104%	50 - 200 %
1,4 - Dichlorobenzene - d4	618441	553925	112%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.04	90.4%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.99	99.9%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.84	98.4%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



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EPA METHOD 8260

Client: **Western Water Consultants**

Sample ID: 93007-11.10/97

Laboratory ID: C97-63862

Matrix: Water

Dilution Factor: 1

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

MW-11

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	2.36	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	0.49	J 1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	2.17	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	0.85	J 1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-11.10/97
Laboratory ID: C97-63862

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-11

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)		LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	5.18		1.0
108-86-1	Bromobenzene	ND		1.0
103-65-1	n - Propylbenzene	ND		1.0
95-49-8	2 - Chlorotoluene	ND		1.0
106-43-4	4 - Chlorotoluene	ND		1.0
108-67-8	1,3,5 - Trimethylbenzene	2.46		1.0
98-06-6	tert - Butylbenzene	0.79	J	1.0
95-63-6	1,2,4 - Trimethylbenzene	5.87		1.0
135-98-8	sec - Butylbenzene	0.63	J	1.0
541-73-1	1,3 - Dichlorobenzene	ND		1.0
106-46-7	1,4 - Dichlorobenzene	ND		1.0
99-87-6	4-Isopropyltoluene	0.77	J	1.0
95-50-1	1,2 - Dichlorobenzene	ND		1.0
104-51-8	n - Butylbenzene	ND		1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND		5.0
120-82-1	1,2,4 - Trichlorobenzene	ND		1.0
91-20-3	Naphthalene	ND		1.0
87-68-3	Hexachlorobutadiene	ND		1.0
87-61-6	1,2 3 - Trichlorobenzene	ND		1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	882612	827952	107%	50 - 200 %
Fluorobenzene	1445737	1469329	98.4%	50 - 200 %
1,4 - Difluorobenzene	1507494	1439497	105%	50 - 200 %
Chlorobenzene - d5	1124263	1170721	96.0%	50 - 200 %
1,4 - Dichlorobenzene - d4	576242	553925	104%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.73	97.3%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.93	99.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93007-12.10/97

Laboratory ID: C97-63863

Matrix: Water

Dilution Factor: 1

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

mw-12

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-12.10/97
Laboratory ID: C97-63863

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-12

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	879818	827952	106%	50 - 200 %
Fluorobenzene	1438281	1469329	97.9%	50 - 200 %
1,4 - Difluorobenzene	1483307	1439497	103%	50 - 200 %
Chlorobenzene - d5	1120115	1170721	95.7%	50 - 200 %
1,4 - Dichlorobenzene - d4	555773	553925	100%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	9.69	96.9%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.75	97.5%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93007-13.10/97

Laboratory ID: C97-63864

Matrix: Water

Dilution Factor: 1

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

mw-13

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	15.1	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	1.37	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	13.3	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-13.10/97
Laboratory ID: C97-63864

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

MW-13

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Pentafluorobenzene	874930	827952	106%	50 - 200 %
Fluorobenzene	1424016	1469329	96.9%	50 - 200 %
1,4 - Difluorobenzene	1460798	1439497	101%	50 - 200 %
Chlorobenzene - d5	1101516	1170721	94.1%	50 - 200 %
1,4 - Dichlorobenzene - d4	553970	553925	100%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Dibromofluoromethane	10.0	100%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.32	93.2%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.0	100%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: R:\Reports\CLIENTS.97\Western_Water_Conultants\ORGANIC.CAS\97_63853.xls

Analyst: yw
Reviewed: sec

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93007-14.10/97

Laboratory ID: C97-63865

Matrix: Water

Dilution Factor: 1

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

mw-14

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-14.10/97
Laboratory ID: C97-63865

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-14

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Pentafluorobenzene	787193	827952	95.1%	50 - 200 %
Fluorobenzene	1328649	1469329	90.4%	50 - 200 %
1,4 - Difluorobenzene	1357765	1439497	94.3%	50 - 200 %
Chlorobenzene - d5	1015869	1170721	86.8%	50 - 200 %
1,4 - Dichlorobenzene - d4	504167	553925	91.0%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT RECOVERY</u>	<u>ACCEPTANCE RANGE</u>
Dibromofluoromethane	10.1	101%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.84	98.4%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.0	100%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: R:\Reports\CLIENTS.97\Western_Water_Consumants\ORGANIC.CAS\97_63853.xls

Analyst: yw
Reviewed: sec



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EPA METHOD 8260

Client: **Western Water Consultants**

Sample ID: 93007-15.10/97

Laboratory ID: C97-63866

Matrix: Water

Dilution Factor: 1

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

MW-15

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-15.10/97
Laboratory ID: C97-63866

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

mw-15

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	882398	827952	107%	50 - 200 %
Fluorobenzene	1516918	1469329	103%	50 - 200 %
1,4 - Difluorobenzene	1526135	1439497	106%	50 - 200 %
Chlorobenzene - d5	1145534	1170721	97.8%	50 - 200 %
1,4 - Dichlorobenzene - d4	577203	553925	104%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.2	102%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	9.99	99.9%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: R:\Reports\CLIENTS.97\Western_Water_Consumants\ORGANIC.CAS\97_63853.xls

Analyst: yw
Reviewed: sec

EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-S04.10/97
Laboratory ID: C97-63867
Matrix: Water
Dilution Factor: 20

Shell Station Well

Date Sampled: 10/16/97
Date Received: 10/21/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	20.0
74-87-3	Chloromethane	ND	20.0
75-01-4	Vinyl chloride (Chloroethene)	ND	20.0
74-83-9	Bromomethane	ND	20.0
75-00-3	Chloroethane	ND	20.0
75-69-4	Trichlorofluoromethane	ND	20.0
75-35-4	1,1 - Dichloroethene	21.8	20.0
75-09-2	Methylene chloride (Dichloromethane)	ND	20.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	20.0
75-34-3	1,1 - Dichloroethene	18.0 J	20.0
78-93-3	2 -Butanone (MEK)	ND	200
156-59-2	cis - 1,2 - Dichloroethene	ND	20.0
74-97-5	Bromochloromethane	ND	20.0
67-66-3	Chloroform (Trichloromethane)	ND	20.0
594-20-7	2,2 - Dichloropropane	ND	20.0
71-55-6	1,1,1 - Trichloroethane	ND	20.0
107-06-2	1,2 - Dichloroethane	ND	20.0
563-58-6	1,1 - Dichloropropene	ND	20.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	20.0
71-43-2	Benzene	ND	20.0
74-95-3	Dibromomethane	ND	20.0
78-87-5	1,2 - Dichloropropane	ND	20.0
79-01-6	Trichloroethene	ND	20.0
75-27-4	Bromodichloromethane	ND	20.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	20.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	20.0
79-00-5	1,1,2 - Trichloroethane	ND	20.0
108-88-3	Toluene	39.4	20.0
106-93-4	1,2 - Dibromoethane	ND	20.0
142-28-9	1,3 - Dichloropropane	ND	20.0
124-48-1	Dibromochloromethane	ND	20.0
127-18-4	Tetrachloroethene	ND	20.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	20.0
108-90-7	Chlorobenzene	ND	20.0
100-41-4	Ethylbenzene	322	20.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	364	40.0
75-25-2	Bromoform (Tribromomethane)	ND	20.0
100-42-5	Styrene (Ethenylbenzene)	ND	20.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	349	20.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	20.0
96-18-4	1,2,3 - Trichloropropane	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

**EPA METHOD 8260**

Client: **Western Water Consultants**
Sample ID: 93007-S04.10/97
Laboratory ID: C97-63867

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

Shell Station Well

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	20.0
108-86-1	Bromobenzene	ND	20.0
103-65-1	n - Propylbenzene	35.0	20.0
95-49-8	2 - Chlorotoluene	ND	20.0
106-43-4	4 - Chlorotoluene	ND	20.0
108-67-8	1,3,5 - Trimethylbenzene	66.8	20.0
98-06-6	tert - Butylbenzene	49.8	20.0
95-63-6	1,2,4 - Trimethylbenzene	385	20.0
135-98-8	sec - Butylbenzene	ND	20.0
541-73-1	1,3 - Dichlorobenzene	ND	20.0
106-46-7	1,4 - Dichlorobenzene	ND	20.0
99-87-6	4-Isopropyltoluene	ND	20.0
95-50-1	1,2 - Dichlorobenzene	ND	20.0
104-51-8	n - Butylbenzene	ND	20.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	100
120-82-1	1,2,4 - Trichlorobenzene	ND	20.0
91-20-3	Naphthalene	102	20.0
87-68-3	Hexachlorobutadiene	ND	20.0
87-61-6	1,2,3 - Trichlorobenzene	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	934567	827952	113%	50 - 200 %
Fluorobenzene	1606380	1469329	109%	50 - 200 %
1,4 - Difluorobenzene	1604668	1439497	111%	50 - 200 %
Chlorobenzene - d5	1234428	1170721	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	643953	553925	116%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.1	101%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	10.3	103%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.96	99.6%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: R:\Reports\CLIENTS\97\Western_Water_Consultants\ORGANIC.CAS\97_63853.xls

Analyst: yw
Reviewed: sec

EPA METHOD 8260

Client: **Western Water Consultants**

Sample ID: 93007-A.10/97

Laboratory ID: C97-63868

Matrix: Water

Dilution Factor: 20

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

*Duplicate of
mw-9*

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	20.0
74-87-3	Chloromethane	ND	20.0
75-01-4	Vinyl chloride (Chloroethene)	ND	20.0
74-83-9	Bromomethane	ND	20.0
75-00-3	Chloroethane	ND	20.0
75-69-4	Trichlorofluoromethane	ND	20.0
75-35-4	1,1 - Dichloroethene	321	20.0
75-09-2	Methylene chloride (Dichloromethane)	ND	20.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	20.0
75-34-3	1,1 - Dichloroethane	23.2	20.0
78-93-3	2 -Butanone (MEK)	ND	200
156-59-2	cis - 1,2 - Dichloroethene	ND	20.0
74-97-5	Bromochloromethane	ND	20.0
67-66-3	Chloroform (Trichloromethane)	10.0	J 20.0
594-20-7	2,2 - Dichloropropane	ND	20.0
71-55-6	1,1,1 - Trichloroethane	141	20.0
107-06-2	1,2 - Dichloroethane	ND	20.0
563-58-6	1,1 - Dichloropropene	ND	20.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	20.0
71-43-2	Benzene	ND	20.0
74-95-3	Dibromomethane	ND	20.0
78-87-5	1,2 - Dichloropropane	ND	20.0
79-01-6	Trichloroethene	ND	20.0
75-27-4	Bromodichloromethane	ND	20.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	20.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	20.0
79-00-5	1,1,2 - Trichloroethane	ND	20.0
108-88-3	Toluene	ND	20.0
106-93-4	1,2 - Dibromoethane	ND	20.0
142-28-9	1,3 - Dichloropropane	ND	20.0
124-48-1	Dibromochloromethane	ND	20.0
127-18-4	Tetrachloroethene	1,160	20.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	20.0
108-90-7	Chlorobenzene	ND	20.0
100-41-4	Ethylbenzene	ND	20.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	40.0
75-25-2	Bromoform (Tribromomethane)	ND	20.0
100-42-5	Styrene (Ethenylbenzene)	ND	20.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	20.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	20.0
96-18-4	1,2,3 - Trichloropropane	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-A.10/97
Laboratory ID: C97-63868

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

*Duplicate of
mw-9*

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	20.0
108-86-1	Bromobenzene	ND	20.0
103-65-1	n - Propylbenzene	ND	20.0
95-49-8	2 - Chlorotoluene	ND	20.0
106-43-4	4 - Chlorotoluene	ND	20.0
108-67-8	1,3,5 - Trimethylbenzene	ND	20.0
98-06-6	tert - Butylbenzene	ND	20.0
95-63-6	1,2,4 - Trimethylbenzene	ND	20.0
135-98-8	sec - Butylbenzene	ND	20.0
541-73-1	1,3 - Dichlorobenzene	ND	20.0
106-46-7	1,4 - Dichlorobenzene	ND	20.0
99-87-6	4-Isopropyltoluene	ND	20.0
95-50-1	1,2 - Dichlorobenzene	ND	20.0
104-51-8	n - Butylbenzene	ND	20.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	100
120-82-1	1,2,4 - Trichlorobenzene	ND	20.0
91-20-3	Naphthalene	ND	20.0
87-68-3	Hexachlorobutadiene	ND	20.0
87-61-6	1,2,3 - Trichlorobenzene	ND	20.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	903397	827952	109%	50 - 200 %
Fluorobenzene	1590396	1469329	108%	50 - 200 %
1,4 - Difluorobenzene	1554609	1439497	108%	50 - 200 %
Chlorobenzene - d5	1197224	1170721	102%	50 - 200 %
1,4 - Dichlorobenzene - d4	596718	553925	108%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.2	102%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	10.1	101%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: R:\Reports\CLIENTS.97\Western_Water_Consumants\ORGANIC.CAS\97_63853.xls

Analyst: yw
Reviewed: sec



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EPA METHOD 8260

Client: **Western Water Consultants**

Sample ID: 93007-B.10/97

Laboratory ID: C97-63869

Matrix: Water

Dilution Factor: 2

*Duplicate of
mw-13*

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	2.0
74-87-3	Chloromethane	ND	2.0
75-01-4	Vinyl chloride (Chloroethene)	ND	2.0
74-83-9	Bromomethane	ND	2.0
75-00-3	Chloroethane	ND	2.0
75-69-4	Trichlorofluoromethane	ND	2.0
75-35-4	1,1 - Dichloroethene	11.4	2.0
75-09-2	Methylene chloride (Dichloromethane)	ND	2.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	2.0
75-34-3	1,1 - Dichloroethane	ND	2.0
78-93-3	2 -Butanone (MEK)	ND	20.0
156-59-2	cis - 1,2 - Dichloroethene	ND	2.0
74-97-5	Bromochloromethane	ND	2.0
67-66-3	Chloroform (Trichloromethane)	ND	2.0
594-20-7	2,2 - Dichloropropane	ND	2.0
71-55-6	1,1,1 - Trichloroethane	1.06	J 2.0
107-06-2	1,2 - Dichloroethane	ND	2.0
563-58-6	1,1 - Dichloropropene	ND	2.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	2.0
71-43-2	Benzene	ND	2.0
74-95-3	Dibromomethane	ND	2.0
78-87-5	1,2 - Dichloropropane	ND	2.0
79-01-6	Trichloroethene	ND	2.0
75-27-4	Bromodichloromethane	ND	2.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	2.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	2.0
79-00-5	1,1,2 - Trichloroethane	ND	2.0
108-88-3	Toluene	ND	2.0
106-93-4	1,2 - Dibromoethane	ND	2.0
142-28-9	1,3 - Dichloropropane	ND	2.0
124-48-1	Dibromochloromethane	ND	2.0
127-18-4	Tetrachloroethene	13.0	2.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	2.0
108-90-7	Chlorobenzene	ND	2.0
100-41-4	Ethylbenzene	ND	2.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	4.0
75-25-2	Bromoform (Tribromomethane)	ND	2.0
100-42-5	Styrene (Ethenylbenzene)	ND	2.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	2.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	2.0
96-18-4	1,2,3 - Trichloropropane	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-B.10/97
Laboratory ID: C97-63869

Date Sampled: 10/16/97
Date Analyzed: 10/27/97
Date Reported: November 6, 1997

*Duplicate of
Mw-13*

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	2.0
108-86-1	Bromobenzene	ND	2.0
103-65-1	n - Propylbenzene	ND	2.0
95-49-8	2 - Chlorotoluene	ND	2.0
106-43-4	4 - Chlorotoluene	ND	2.0
108-67-8	1,3,5 - Trimethylbenzene	ND	2.0
98-06-6	tert - Butylbenzene	ND	2.0
95-63-6	1,2,4 - Trimethylbenzene	ND	2.0
135-98-8	sec - Butylbenzene	ND	2.0
541-73-1	1,3 - Dichlorobenzene	ND	2.0
106-46-7	1,4 - Dichlorobenzene	ND	2.0
99-87-6	4-Isopropyltoluene	ND	2.0
95-50-1	1,2 - Dichlorobenzene	ND	2.0
104-51-8	n - Butylbenzene	ND	2.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	10.0
120-82-1	1,2,4 - Trichlorobenzene	ND	2.0
91-20-3	Naphthalene	ND	2.0
87-68-3	Hexachlorobutadiene	ND	2.0
87-61-6	1,2 3 - Trichlorobenzene	ND	2.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1056667	827952	128%	50 - 200 %
Fluorobenzene	1635440	1469329	111%	50 - 200 %
1,4 - Difluorobenzene	1692064	1439497	118%	50 - 200 %
Chlorobenzene - d5	1255976	1170721	107%	50 - 200 %
1,4 - Dichlorobenzene - d4	615066	553925	111%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	8.88	88.8%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.52	95.2%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.83	98.3%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: R:\Reports\CLIENTS.97\Western_Water_Consultants\ORGANIC.CAS\97_63853.xls

Analyst: yw
Reviewed: sec



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EPA METHOD 8260

Client: **Western Water Consultants**

Sample ID: TRIP BLANK

Laboratory ID: C97-63869A

Matrix: Water

Dilution Factor: 1

Date Sampled: 10/16/97

Date Received: 10/21/97

Date Analyzed: 10/27/97

Date Reported: November 6, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: **TRIP BLANK**
Laboratory ID: **C97-63869A**

Date Sampled: **10/16/97**
Date Analyzed: **10/27/97**
Date Reported: **November 6, 1997**

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (µg/L)	LIMIT OF DETECTION (µg/L)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	986888	827952	119%	50 - 200 %
Fluorobenzene	1545717	1469329	105%	50 - 200 %
1,4 - Difluorobenzene	1609617	1439497	112%	50 - 200 %
Chlorobenzene - d5	1185434	1170721	101%	50 - 200 %
1,4 - Dichlorobenzene - d4	577656	553925	104%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	9.30	93.0%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.71	97.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.86	98.6%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: R:\Reports\CLIENTS.97\Western_Water_Consultants\ORGANIC.CAS\97_63853.xls

Analyst: yw
Reviewed: sec

EPA METHOD 8260

Client: **Western Water Consultants**

Sample ID: 93007-AD.10/97

Laboratory ID: C97-58595

Matrix: Air

Dilution Factor: 1

Date Sampled: 10/14/97

Date Received: 10/15/97

Date Analyzed: 10/15/97

Date Reported: October 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	1.31	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	1.74	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-AD.10/97
Laboratory ID: C97-58595

Date Sampled: 10/14/97
Date Analyzed: 10/15/97
Date Reported: October 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	0.84 J	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1321130	1280898	103%	50 - 200 %
Fluorobenzene	2390227	2335628	102%	50 - 200 %
1,4 - Difluorobenzene	2185554	2159573	101%	50 - 200 %
Chlorobenzene - d5	1599418	1543939	104%	50 - 200 %
1,4 - Dichlorobenzene - d4	698628	683898	102%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.72	97.2%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	10.3	103%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.88	98.8%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



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EPA METHOD 8260

Client: **Western Water Consultants**
 Sample ID: 93007-WP.10/97
 Laboratory ID: C97-58596
 Matrix: Air
 Dilution Factor: 5

Date Sampled: 10/14/97
 Date Received: 10/15/97
 Date Analyzed: 10/15/97
 Date Reported: October 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorofluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	5.40	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	9.05	5.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	125	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	10.6	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	ND	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	90.2	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	81.0	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	26.4	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	86.6	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	63.8	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-WP.10/97
Laboratory ID: C97-58596

Date Sampled: 10/14/97
Date Analyzed: 10/15/97
Date Reported: October 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	10.8	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	17.9	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	109	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	51.6	5.0
135-98-8	sec - Butylbenzene	ND	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2 3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS		ICAL / CCAL	PERCENT RECOVERY	ACCEPTANCE RANGE
	AREA	AREA		
Pentafluorobenzene	1351504	1280898	106%	50 - 200 %
Fluorobenzene	2431170	2335628	104%	50 - 200 %
1,4 - Difluorobenzene	2225103	2159573	103%	50 - 200 %
Chlorobenzene - d5	1616655	1543939	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	726254	683898	106%	50 - 200 %
SYSTEM MONITORING COMPOUNDS		CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane		9.39	93.9%	86 - 118 %
Toluene - d8		10.8	108%	88 - 110 %
4 - Bromofluorobenzene		10.4	104%	86 - 115 %
1,2 - Dichlorobenzene - d4		10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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File 93007.D

EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-UST.7/97
Laboratory ID: C97-41722
Matrix: Air
Dilution Factor: 10

Date Sampled: 07/29/97
Date Received: 07/30/97
Date Analyzed: 07/30/97
Date Reported: August 12, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	10.4	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	30.0	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	ND	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	148	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-UST.7/97
Laboratory ID: C97-41722

Date Sampled: 07/29/97
Date Analyzed: 07/30/97
Date Reported: August 12, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

Runtime Quality Assurance Report

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	945544	940049	101%	50 - 200 %
Fluorobenzene	1838298	1717058	107%	50 - 200 %
1,4 - Difluorobenzene	1650419	1650598	100%	50 - 200 %
Chlorobenzene - d5	1257479	1211735	104%	50 - 200 %
1,4 - Dichlorobenzene - d4	535085	504616	106%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.65	96.5%	86 - 118 %
Toluene - d8	10.6	106%	88 - 110 %
4 - Bromofluorobenzene	10.0	100%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.99	99.9%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-AD.7/97
Laboratory ID: C97-41723
Matrix: Air
Dilution Factor: 1

Date Sampled: 07/29/97
Date Received: 07/30/97
Date Analyzed: 07/30/97
Date Reported: August 12, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF
		(mg/m ³)	DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	1.45	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	3.46	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	2.88	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	0.71	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	2.38	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	2.12	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-AD.7/97
Laboratory ID: C97-41723

Date Sampled: 07/29/97
Date Analyzed: 07/30/97
Date Reported: August 12, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	4.52	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	2.26	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

Runtime Quality Assurance Report

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	867982	940049	92.3%	50 - 200 %
Fluorobenzene	1724537	1717058	100%	50 - 200 %
1,4 - Difluorobenzene	1577028	1650598	95.5%	50 - 200 %
Chlorobenzene - d5	1220180	1211735	101%	50 - 200 %
1,4 - Dichlorobenzene - d4	545779	504616	108%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	10.4	104%	86 - 118 %
Toluene - d8	10.6	106%	88 - 110 %
4 - Bromofluorobenzene	10.6	106%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: **93007-WP.7/97**
Laboratory ID: **C97-41724**
Matrix: **Air**
Dilution Factor: **10**

Date Sampled: **07/29/97**
Date Received: **07/30/97**
Date Analyzed: **07/30/97**
Date Reported: **August 12, 1997**

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION		LIMIT OF
		(mg/m ³)		DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND		10.0
74-87-3	Chloromethane	ND		10.0
75-01-4	Vinyl chloride (Chloroethene)	ND		10.0
74-83-9	Bromomethane	ND		10.0
75-00-3	Chloroethane	ND		10.0
75-69-4	Trichlorofluoromethane	ND		10.0
75-35-4	1,1 - Dichloroethene	6.10	J	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND		10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND		10.0
75-34-3	1,1 - Dichloroethane	6.90	J	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND		10.0
74-97-5	Bromochloromethane	ND		10.0
67-66-3	Chloroform (Trichloromethane)	ND		10.0
594-20-7	2,2 - Dichloropropane	ND		10.0
71-55-6	1,1,1 - Trichloroethane	76.1		10.0
107-06-2	1,2 - Dichloroethane	ND		10.0
563-58-6	1,1 - Dichloropropene	ND		10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND		10.0
71-43-2	Benzene	5.90	J	10.0
74-95-3	Dibromomethane	ND		10.0
78-87-5	1,2 - Dichloropropane	ND		10.0
79-01-6	Trichloroethene	ND		10.0
75-27-4	Bromodichloromethane	ND		10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND		10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND		10.0
79-00-5	1,1,2 - Trichloroethane	ND		10.0
108-88-3	Toluene	33.0		10.0
106-93-4	1,2 - Dibromoethane	ND		10.0
142-28-9	1,3 - Dichloropropane	ND		10.0
124-48-1	Dibromochloromethane	ND		10.0
127-18-4	Tetrachloroethene	25.5		10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND		10.0
108-90-7	Chlorobenzene	ND		10.0
100-41-4	Ethylbenzene	5.50	J	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	15.1	J	20.0
75-25-2	Bromoform (Tribromomethane)	ND		10.0
100-42-5	Styrene (Ethenylbenzene)	ND		10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	9.20	J	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND		10.0
96-18-4	1,2,3 - Trichloropropane	ND		10.0

*ND - Analyte not detected at stated limit of detection**J - Meets Mass Spectral Identification criteria but result is below established detection limit*



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-WP.7/97
Laboratory ID: C97-41724

Date Sampled: 07/29/97
Date Analyzed: 07/30/97
Date Reported: August 12, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	10.3	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2,3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

Runtime Quality Assurance Report

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	956286	940049	102%	50 - 200 %
Fluorobenzene	1846366	1717058	108%	50 - 200 %
1,4 - Difluorobenzene	1679699	1650598	102%	50 - 200 %
Chlorobenzene - d5	1289788	1211735	106%	50 - 200 %
1,4 - Dichlorobenzene - d4	549623	504616	109%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.75	97.5%	86 - 118 %
Toluene - d8	10.7	107%	88 - 110 %
4 - Bromofluorobenzene	10.1	101%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.96	99.6%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93-007.AD-INP. 6/97

Laboratory ID: C97-35213

Matrix: Air

Dilution Factor: 1

*Acid Dock
Input*

Date Sampled: 06/25/97

Date Received: 06/26/97

Date Analyzed: 06/26/97

Date Reported: July 4, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	1.25	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	0.46 J	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	2.39	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	4.20	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	6.15	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	1.66	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	6.32	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	5.56	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93-007.AD-INP. 6/97
Laboratory ID: C97-35213

Acid Dock
Input

Date Sampled: 06/25/97
Date Analyzed: 06/26/97
Date Reported: July 4, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	0.99	J 1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	2.08	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	12.0	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	7.67	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1334849	1334266	100%	50 - 200 %
Fluorobenzene	2703700	2713933	99.6%	50 - 200 %
1,4 - Difluorobenzene	2196756	2179375	101%	50 - 200 %
Chlorobenzene - d5	1604355	1568157	102%	50 - 200 %
1,4 - Dichlorobenzene - d4	764736	718198	106%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.4	104%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	10.6	106%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.82	98.2%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93-007.WP-INP. 6/97

Laboratory ID: C97-35214

Matrix: Air

Dilution Factor: 5

Date Sampled: 06/25/97

Date Received: 06/26/97

Date Analyzed: 06/26/97

Date Reported: July 4, 1997

*Former Waste
Water Collection
Pond Area*

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF
		(mg/m ³)	DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorofluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	17.0	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	22.0	5.0
78-93-3	2 -Butanone (MEK)	ND	50.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	156	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	18.7	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	ND	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	104	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	97.3	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	33.9	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	102	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	74.3	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93-007.WP-INP. 6/97
Laboratory ID: C97-35214

Date Sampled: 06/25/97
Date Analyzed: 06/26/97
Date Reported: July 4, 1997

Former Waste
Water Collection
Pond Area

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	14.8	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	25.2	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	117	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	64.8	5.0
135-98-8	sec - Butylbenzene	ND	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2 3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1599312	1334266	120%	50 - 200 %
Fluorobenzene	3123487	2713933	115%	50 - 200 %
1,4 - Difluorobenzene	2556619	2179375	117%	50 - 200 %
Chlorobenzene - d5	1837138	1568157	117%	50 - 200 %
1,4 - Dichlorobenzene - d4	835726	718198	116%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.53	95.3%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.93	99.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.84	98.4%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93-007.USTCOMP. 6/97

Laboratory ID: C97-35215

Matrix: Air

Dilution Factor: 1

Date Sampled: 06/25/97

Date Received: 06/26/97

Date Analyzed: 06/26/97

Date Reported: July 4, 1997

Former UST Area

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF
		(mg/m ³)	DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	68.2	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	10.5	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	2.03	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	125	1.0
107-06-2	1,2 - Dichloroethane	1.54	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	1.11	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	1.44	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	335	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93-007.USTCOMP. 6/97
Laboratory ID: C97-35215

Former UST
Area

Date Sampled: 06/25/97
Date Analyzed: 06/26/97
Date Reported: July 4, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	1460733	1334266	109%	50 - 200 %
Fluorobenzene	2930688	2713933	108%	50 - 200 %
1,4 - Difluorobenzene	2388702	2179375	110%	50 - 200 %
Chlorobenzene - d5	1707256	1568157	109%	50 - 200 %
1,4 - Dichlorobenzene - d4	816804	718198	114%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	9.89	98.9%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	9.93	99.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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Sample ID: 93-007.USTDP1. 6/97

Laboratory ID: C97-35216

Matrix: Air

Dilution Factor: 1

Date Sampled: 06/25/97

Date Received: 06/26/97

Date Analyzed: 06/26/97

Date Reported: July 4, 1997

*Deep SVE well
3-7*

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF
		(mg/m ³)	DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	82.8	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	7.31	1.0
78-93-3	2 -Butanone (MEK)	ND	10.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	1.07	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	60.2	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	226	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93-007.USTDP1. 6/97
Laboratory ID: C97-35216

Date Sampled: 06/25/97
Date Analyzed: 06/26/97
Date Reported: July 4, 1997

Deep SVE well
3-7

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1524534	1334266	114%	50 - 200 %
Fluorobenzene	3083096	2713933	114%	50 - 200 %
1,4 - Difluorobenzene	2483535	2179375	114%	50 - 200 %
Chlorobenzene - d5	1782655	1568157	114%	50 - 200 %
1,4 - Dichlorobenzene - d4	856878	718198	119%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.1	101%	86 - 118 %
Toluene - d8	10.0	100%	88 - 110 %
4 - Bromofluorobenzene	10.1	101%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

**ENERGY LABORATORIES, INC.**

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93-007.USTDP2. 6/97

Laboratory ID: C97-35217

Matrix: Air

Dilution Factor: 10

*Deep SVE well
3-6*

Date Sampled: 06/25/97

Date Received: 06/26/97

Date Analyzed: 06/26/97

Date Reported: July 4, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF
		(mg/m ³)	DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	120	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	13.2	10.0
78-93-3	2 -Butanone (MEK)	ND	100.0
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	114	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	ND	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	368	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93-007.USTDP2. 6/97
Laboratory ID: C97-35217

Date Sampled: 06/25/97
Date Analyzed: 06/26/97
Date Reported: July 4, 1997

Deep SVE well
3-6

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2 3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1408035	1334266	106%	50 - 200 %
Fluorobenzene	2854854	2713933	105%	50 - 200 %
1,4 - Difluorobenzene	2300607	2179375	106%	50 - 200 %
Chlorobenzene - d5	1647557	1568157	105%	50 - 200 %
1,4 - Dichlorobenzene - d4	783818	718198	109%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	10.2	102%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	10.1	101%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.98	99.8%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

**ENERGY LABORATORIES, INC.**

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EPA METHOD 8260Client: **Western Water Consultants**

Sample ID: 93-007.USTDP3. 6/97

Laboratory ID: C97-35218

Matrix: Air

Dilution Factor: 10

Date Sampled: 06/25/97

Date Received: 06/26/97

Date Analyzed: 06/26/97

Date Reported: July 4, 1997

*Deep SVE well
3-5*

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF
		(mg/m ³)	DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	10.0
74-87-3	Chloromethane	ND	10.0
75-01-4	Vinyl chloride (Chloroethene)	ND	10.0
74-83-9	Bromomethane	ND	10.0
75-00-3	Chloroethane	ND	10.0
75-69-4	Trichlorofluoromethane	ND	10.0
75-35-4	1,1 - Dichloroethene	79.8	10.0
75-09-2	Methylene chloride (Dichloromethane)	ND	10.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	10.0
75-34-3	1,1 - Dichloroethane	25.1	10.0
78-93-3	2 -Butanone (MEK)	ND	100.0
156-59-2	cis - 1,2 - Dichloroethene	ND	10.0
74-97-5	Bromochloromethane	ND	10.0
67-66-3	Chloroform (Trichloromethane)	ND	10.0
594-20-7	2,2 - Dichloropropane	ND	10.0
71-55-6	1,1,1 - Trichloroethane	441	10.0
107-06-2	1,2 - Dichloroethane	ND	10.0
563-58-6	1,1 - Dichloropropene	ND	10.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	10.0
71-43-2	Benzene	ND	10.0
74-95-3	Dibromomethane	ND	10.0
78-87-5	1,2 - Dichloropropane	ND	10.0
79-01-6	Trichloroethene	ND	10.0
75-27-4	Bromodichloromethane	ND	10.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	10.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	10.0
79-00-5	1,1,2 - Trichloroethane	ND	10.0
108-88-3	Toluene	ND	10.0
106-93-4	1,2 - Dibromoethane	ND	10.0
142-28-9	1,3 - Dichloropropane	ND	10.0
124-48-1	Dibromochloromethane	ND	10.0
127-18-4	Tetrachloroethene	871	10.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	10.0
108-90-7	Chlorobenzene	ND	10.0
100-41-4	Ethylbenzene	ND	10.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	20.0
75-25-2	Bromoform (Tribromomethane)	ND	10.0
100-42-5	Styrene (Ethenylbenzene)	ND	10.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	10.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	10.0
96-18-4	1,2,3 - Trichloropropane	ND	10.0

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93-007.USTDP3. 6/97
Laboratory ID: C97-35218

Date Sampled: 06/25/97
Date Analyzed: 06/26/97
Date Reported: July 4, 1997

DEEP SUE WELL
3-5

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	10.0
108-86-1	Bromobenzene	ND	10.0
103-65-1	n - Propylbenzene	ND	10.0
95-49-8	2 - Chlorotoluene	ND	10.0
106-43-4	4 - Chlorotoluene	ND	10.0
108-67-8	1,3,5 - Trimethylbenzene	ND	10.0
98-06-6	tert - Butylbenzene	ND	10.0
95-63-6	1,2,4 - Trimethylbenzene	ND	10.0
135-98-8	sec - Butylbenzene	ND	10.0
541-73-1	1,3 - Dichlorobenzene	ND	10.0
106-46-7	1,4 - Dichlorobenzene	ND	10.0
99-87-6	4-Isopropyltoluene	ND	10.0
95-50-1	1,2 - Dichlorobenzene	ND	10.0
104-51-8	n - Butylbenzene	ND	10.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	50.0
120-82-1	1,2,4 - Trichlorobenzene	ND	10.0
91-20-3	Naphthalene	ND	10.0
87-68-3	Hexachlorobutadiene	ND	10.0
87-61-6	1,2 3 - Trichlorobenzene	ND	10.0

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

<u>INTERNAL STANDARDS</u>	<u>AREA</u>	<u>ICAL / CCAL</u> <u>AREA</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Pentafluorobenzene	1381918	1334266	104%	50 - 200 %
Fluorobenzene	2788756	2713933	103%	50 - 200 %
1,4 - Difluorobenzene	2259676	2179375	104%	50 - 200 %
Chlorobenzene - d5	1618016	1568157	103%	50 - 200 %
1,4 - Dichlorobenzene - d4	753752	718198	105%	50 - 200 %

<u>SYSTEM MONITORING COMPOUNDS</u>	<u>CONCENTRATION</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>ACCEPTANCE</u> <u>RANGE</u>
Dibromofluoromethane	9.98	99.8%	86 - 118 %
Toluene - d8	9.99	99.9%	88 - 110 %
4 - Bromofluorobenzene	10.1	101%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
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File 93007-D

EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-1-7.5/97
Laboratory ID: C97-27703
Matrix: Soil
Dilution Factor: 200

SVE well 1-7

Date Sampled: 05/12/97
Date Received: 05/20/97
Date Extracted: 05/21/97
Date Analyzed: 05/21/97
Date Reported: May 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/kg)	LIMIT OF DETECTION (mg/kg)
75-71-8	Dichlorodifluoromethane	ND	0.20
74-87-3	Chloromethane	ND	0.20
75-01-4	Vinyl chloride	ND	0.20
74-83-9	Bromomethane	ND	0.20
75-00-3	Chloroethane	ND	0.20
75-69-4	Trichlorofluoromethane	ND	0.20
75-35-4	1,1 - Dichloroethene	ND	0.20
75-09-2	Methylene chloride	ND	0.20
156-60-5	trans - 1, 2 - Dichloroethene	ND	0.20
75-34-3	1,1 - Dichloroethane	ND	0.20
156-59-2	cis - 1,2 - Dichloroethene	ND	0.20
74-97-5	Bromochloromethane	ND	0.20
67-66-3	Chloroform	ND	0.20
594-20-7	2,2 - Dichloropropane	ND	0.20
71-55-6	1,1,1 - Trichloroethane	ND	0.20
107-06-2	1,2 - Dichloroethane	ND	0.20
563-58-6	1,1 - Dichloropropene	ND	0.20
56-23-5	Carbon tetrachloride	ND	0.20
71-43-2	Benzene	0.11	J 0.20
74-95-3	Dibromomethane	ND	0.20
78-87-5	1,2 - Dichloropropane	ND	0.20
79-01-6	Trichloroethene	ND	0.20
75-27-4	Bromodichloromethane	ND	0.20
10061-01-5	cis - 1,3 - Dichloropropene	ND	0.20
10061-02-6	trans - 1.3 - Dichloropropene	ND	0.20
79-00-5	1,1,2 - Trichloroethane	ND	0.20
108-88-3	Toluene	1.55	0.20
106-93-4	1,2 - Dibromoethane (EDB)	ND	0.20
142-28-9	1,3 - Dichloropropane	ND	0.20
124-48-1	Dibromochloromethane	ND	0.20
127-18-4	Tetrachloroethene	ND	0.20
630-20-6	1,1,1,2 - Tetrachloroethane	ND	0.20
108-90-7	Chlorobenzene	ND	0.20
100-41-4	Ethylbenzene	2.17	0.20
108-38-3	m,p - Xylenes	2.57	0.40
75-25-2	Bromoform	ND	0.20
100-42-5	Styrene	ND	0.20
95-47-6	o - Xylene	1.21	0.20
79-34-5	1,1,2,2 - Tetrachloroethane	ND	0.20
96-18-4	1,2,3 - Trichloropropane	ND	0.20

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-1-7.5/97
Laboratory ID: C97-27703

Date Sampled: 05/12/97
Date Analyzed: 05/21/97
Date Reported: May 23, 1997

SVE Well
1-7

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/kg)	LIMIT OF DETECTION (mg/kg)
98-82-8	Isopropylbenzene	0.50	0.20
108-86-1	Bromobenzene	ND	0.20
103-65-1	n - Propylbenzene	1.01	0.20
95-49-8	2 - Chlorotoluene	ND	0.20
106-43-4	4 - Chlorotoluene	ND	0.20
108-67-8	1,3,5 - Trimethylbenzene	3.37	0.20
98-06-6	tert - Butylbenzene	ND	0.20
95-63-6	1,2,4 - Trimethylbenzene	3.25	0.20
135-98-8	sec - Butylbenzene	0.58	0.20
541-73-1	1,3 - Dichlorobenzene	ND	0.20
106-46-7	1,4 - Dichlorobenzene	ND	0.20
99-87-6	4-Isopropyltoluene	0.65	0.20
95-50-1	1,2 - Dichlorobenzene	ND	0.20
104-51-8	n - Butylbenzene	1.41	0.20
96-12-8	1,2 - Dibromo - 3 - chloropropane (DBCP)	ND	1.00
120-82-1	1,2,4 - Trichlorobenzene	ND	0.20
91-20-3	Naphthalene	1.00	0.20
87-68-3	Hexachlorobutadiene	ND	0.20
87-61-6	1,2 3 - Trichlorobenzene	ND	0.20

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	2349889	2125582	111%	50 - 200 %
Fluorobenzene	3530732	3225498	109%	50 - 200 %
1,4 - Difluorobenzene	3041531	2749094	111%	50 - 200 %
Chlorobenzene - d5	2176536	1972814	110%	50 - 200 %
1,4 - Dichlorobenzene - d4	1021590	941949	108%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.71	97.1%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	9.61	96.1%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.27	92.7%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-1-8.5/97
Laboratory ID: C97-27704
Matrix: Soil
Dilution Factor: 200

SVE Well
1-8

Date Sampled: 05/12/97
Date Received: 05/20/97
Date Extracted: 05/21/97
Date Analyzed: 05/21/97
Date Reported: May 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/kg)	LIMIT OF DETECTION (mg/kg)
75-71-8	Dichlorodifluoromethane	ND	0.20
74-87-3	Chloromethane	ND	0.20
75-01-4	Vinyl chloride (Chloroethene)	ND	0.20
74-83-9	Bromomethane	ND	0.20
75-00-3	Chloroethane	ND	0.20
75-69-4	Trichlorofluoromethane	ND	0.20
75-35-4	1,1 - Dichloroethene	ND	0.20
75-09-2	Methylene chloride (Dichloromethane)	ND	0.20
156-60-5	trans - 1, 2 - Dichloroethene	ND	0.20
75-34-3	1,1 - Dichloroethane	ND	0.20
156-59-2	cis - 1,2 - Dichloroethene	ND	0.20
74-97-5	Bromochloromethane	ND	0.20
67-66-3	Chloroform (Trichloromethane)	ND	0.20
594-20-7	2,2 - Dichloropropane	ND	0.20
71-55-6	1,1,1 - Trichloroethane	ND	0.20
107-06-2	1,2 - Dichloroethane	ND	0.20
563-58-6	1,1 - Dichloropropene	ND	0.20
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	0.20
71-43-2	Benzene	ND	0.20
74-95-3	Dibromomethane	ND	0.20
78-87-5	1,2 - Dichloropropane	ND	0.20
79-01-6	Trichloroethene	ND	0.20
75-27-4	Bromodichloromethane	ND	0.20
10061-01-5	cis - 1,3 - Dichloropropene	ND	0.20
10061-02-6	trans - 1,3 - Dichloropropene	ND	0.20
79-00-5	1,1,2 - Trichloroethane	ND	0.20
108-88-3	Toluene	ND	0.20
106-93-4	1,2 - Dibromoethane	ND	0.20
142-28-9	1,3 - Dichloropropane	ND	0.20
124-48-1	Dibromochloromethane	ND	0.20
127-18-4	Tetrachloroethene	ND	0.20
630-20-6	1,1,1,2 - Tetrachloroethane	ND	0.20
108-90-7	Chlorobenzene	ND	0.20
100-41-4	Ethylbenzene	ND	0.20
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	0.40
75-25-2	Bromoform (Tribromomethane)	ND	0.20
100-42-5	Styrene (Ethenylbenzene)	ND	0.20
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	0.20
79-34-5	1,1,2,2 - Tetrachloroethane	ND	0.20
96-18-4	1,2,3 - Trichloropropane	ND	0.20

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-1-8.5/97
Laboratory ID: C97-27704

SVE Well
1-8

Date Sampled: 05/12/97
Date Analyzed: 05/21/97
Date Reported: May 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/kg)	LIMIT OF DETECTION (mg/kg)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	0.20
108-86-1	Bromobenzene	ND	0.20
103-65-1	n - Propylbenzene	ND	0.20
95-49-8	2 - Chlorotoluene	ND	0.20
106-43-4	4 - Chlorotoluene	ND	0.20
108-67-8	1,3,5 - Trimethylbenzene	ND	0.20
98-06-6	tert - Butylbenzene	ND	0.20
95-63-6	1,2,4 - Trimethylbenzene	ND	0.20
135-98-8	sec - Butylbenzene	ND	0.20
541-73-1	1,3 - Dichlorobenzene	ND	0.20
106-46-7	1,4 - Dichlorobenzene	ND	0.20
99-87-6	4-Isopropyltoluene (1-Methyl-4-(1-methyl)-benzene)	ND	0.20
95-50-1	1,2 - Dichlorobenzene	ND	0.20
104-51-8	n - Butylbenzene	ND	0.20
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	1.00
120-82-1	1,2,4 - Trichlorobenzene	ND	0.20
91-20-3	Naphthalene	ND	0.20
87-68-3	Hexachlorobutadiene	ND	0.20
87-61-6	1,2 3 - Trichlorobenzene	ND	0.20

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	2236367	2125582	105%	50 - 200 %
Fluorobenzene	3346460	3225498	104%	50 - 200 %
1,4 - Difluorobenzene	2915255	2749094	106%	50 - 200 %
Chlorobenzene - d5	1988195	1972814	101%	50 - 200 %
1,4 - Dichlorobenzene - d4	948699	941949	101%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	9.58	95.8%	86 - 118 %
Toluene - d8	9.61	96.1%	88 - 110 %
4 - Bromofluorobenzene	9.93	99.3%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.87	98.7%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-3-5.5/97
Laboratory ID: C97-27705
Matrix: Soil
Dilution Factor: 200

SVE Well
3-5

Date Sampled: 05/12/97
Date Received: 05/20/97
Date Extracted: 05/21/97
Date Analyzed: 05/21/97
Date Reported: May 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/kg)	LIMIT OF DETECTION (mg/kg)
75-71-8	Dichlorodifluoromethane	ND	0.20
74-87-3	Chloromethane	ND	0.20
75-01-4	Vinyl chloride (Chloroethene)	ND	0.20
74-83-9	Bromomethane	ND	0.20
75-00-3	Chloroethane	ND	0.20
75-69-4	Trichlorofluoromethane	ND	0.20
75-35-4	1,1 - Dichloroethene	ND	0.20
75-09-2	Methylene chloride (Dichloromethane)	ND	0.20
156-60-5	trans - 1, 2 - Dichloroethene	ND	0.20
75-34-3	1,1 - Dichloroethane	ND	0.20
156-59-2	cis - 1,2 - Dichloroethene	ND	0.20
74-97-5	Bromochloromethane	ND	0.20
67-66-3	Chloroform (Trichloromethane)	ND	0.20
594-20-7	2,2 - Dichloropropane	ND	0.20
71-55-6	1,1,1 - Trichloroethane	ND	0.20
107-06-2	1,2 - Dichloroethane	ND	0.20
563-58-6	1,1 - Dichloropropene	ND	0.20
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	0.20
71-43-2	Benzene	ND	0.20
74-95-3	Dibromomethane	ND	0.20
78-87-5	1,2 - Dichloropropane	ND	0.20
79-01-6	Trichloroethene	ND	0.20
75-27-4	Bromodichloromethane	ND	0.20
10061-01-5	cis - 1,3 - Dichloropropene	ND	0.20
10061-02-6	trans - 1,3 - Dichloropropene	ND	0.20
79-00-5	1,1,2 - Trichloroethane	ND	0.20
108-88-3	Toluene	ND	0.20
106-93-4	1,2 - Dibromoethane	ND	0.20
142-28-9	1,3 - Dichloropropane	ND	0.20
124-48-1	Dibromochloromethane	ND	0.20
127-18-4	Tetrachloroethene	ND	0.20
630-20-6	1,1,1,2 - Tetrachloroethane	ND	0.20
108-90-7	Chlorobenzene	ND	0.20
100-41-4	Ethylbenzene	ND	0.20
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	0.40
75-25-2	Bromoform (Tribromomethane)	ND	0.20
100-42-5	Styrene (Ethenylbenzene)	ND	0.20
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	0.20
79-34-5	1,1,2,2 - Tetrachloroethane	ND	0.20
96-18-4	1,2,3 - Trichloropropane	ND	0.20

ND - Analyte not detected at stated limit of detection



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-3-5.5/97
Laboratory ID: C97-27705

SVE well
3-5

Date Sampled: 05/12/97
Date Analyzed: 05/21/97
Date Reported: May 23, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/kg)	LIMIT OF DETECTION (mg/kg)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	0.20
108-86-1	Bromobenzene	ND	0.20
103-65-1	n - Propylbenzene	ND	0.20
95-49-8	2 - Chlorotoluene	ND	0.20
106-43-4	4 - Chlorotoluene	ND	0.20
108-67-8	1,3,5 - Trimethylbenzene	ND	0.20
98-06-6	tert - Butylbenzene	ND	0.20
95-63-6	1,2,4 - Trimethylbenzene	ND	0.20
135-98-8	sec - Butylbenzene	ND	0.20
541-73-1	1,3 - Dichlorobenzene	ND	0.20
106-46-7	1,4 - Dichlorobenzene	ND	0.20
99-87-6	4-Isopropyltoluene (1-Methyl-4-(1-methyl)-benzene)	ND	0.20
95-50-1	1,2 - Dichlorobenzene	ND	0.20
104-51-8	n - Butylbenzene	ND	0.20
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	1.00
120-82-1	1,2,4 - Trichlorobenzene	ND	0.20
91-20-3	Naphthalene	ND	0.20
87-68-3	Hexachlorobutadiene	ND	0.20
87-61-6	1,2,3 - Trichlorobenzene	ND	0.20

ND - Analyte not detected at stated limit of detection

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS		ICAL / CCAL	PERCENT RECOVERY	ACCEPTANCE RANGE
	AREA	AREA		
Pentafluorobenzene	2272586	2125582	107%	50 - 200 %
Fluorobenzene	3513760	3225498	109%	50 - 200 %
1,4 - Difluorobenzene	2986901	2749094	109%	50 - 200 %
Chlorobenzene - d5	2108640	1972814	107%	50 - 200 %
1,4 - Dichlorobenzene - d4	998433	941949	106%	50 - 200 %
SYSTEM MONITORING COMPOUNDS		CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane		9.89	98.9%	86 - 118 %
Toluene - d8		9.89	98.9%	88 - 110 %
4 - Bromofluorobenzene		10.0	100%	86 - 115 %
1,2 - Dichlorobenzene - d4		10.0	100%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

File 93cc7.D

Client: **Western Water Consultants**
Sample ID: 93-007.UST-INP. 5/97
Laboratory ID: C97-27399
Matrix: Air
Dilution Factor: 25

Date Sampled: 05/13/97
Date Received: 05/14/97
Date Analyzed: 05/14/97
Date Reported: May 25, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	25.0
74-87-3	Chloromethane	ND	25.0
75-01-4	Vinyl chloride (Chloroethene)	ND	25.0
74-83-9	Bromomethane	ND	25.0
75-00-3	Chloroethane	ND	25.0
75-69-4	Trichlorofluoromethane	ND	25.0
75-35-4	1,1 - Dichloroethene	21.3	J 25.0
75-09-2	Methylene chloride (Dichloromethane)	ND	25.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	25.0
75-34-3	1,1 - Dichloroethane	ND	25.0
156-59-2	cis - 1,2 - Dichloroethene	ND	25.0
74-97-5	Bromochloromethane	ND	25.0
67-66-3	Chloroform (Trichloromethane)	ND	25.0
594-20-7	2,2 - Dichloropropane	ND	25.0
71-55-6	1,1,1 - Trichloroethane	41.8	25.0
107-06-2	1,2 - Dichloroethane	ND	25.0
563-58-6	1,1 - Dichloropropene	ND	25.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	25.0
71-43-2	Benzene	ND	25.0
74-95-3	Dibromomethane	ND	25.0
78-87-5	1,2 - Dichloropropane	ND	25.0
79-01-6	Trichloroethene	ND	25.0
75-27-4	Bromodichloromethane	ND	25.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	25.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	25.0
79-00-5	1,1,2 - Trichloroethane	ND	25.0
108-88-3	Toluene	ND	25.0
106-93-4	1,2 - Dibromoethane	ND	25.0
142-28-9	1,3 - Dichloropropane	ND	25.0
124-48-1	Dibromochloromethane	ND	25.0
127-18-4	Tetrachloroethene	155	25.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	25.0
108-90-7	Chlorobenzene	ND	25.0
100-41-4	Ethylbenzene	ND	25.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	50.0
75-25-2	Bromoform (Tribromomethane)	ND	25.0
100-42-5	Styrene (Ethenylbenzene)	ND	25.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	25.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	25.0
96-18-4	1,2,3 - Trichloropropane	ND	25.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93-007.UST-INP. 5/97
Laboratory ID: C97-27399

Date Sampled: 05/13/97
Date Analyzed: 05/14/97
Date Reported: May 25, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	25.0
108-86-1	Bromobenzene	ND	25.0
103-65-1	n - Propylbenzene	ND	25.0
95-49-8	2 - Chlorotoluene	ND	25.0
106-43-4	4 - Chlorotoluene	ND	25.0
108-67-8	1,3,5 - Trimethylbenzene	ND	25.0
98-06-6	tert - Butylbenzene	ND	25.0
95-63-6	1,2,4 - Trimethylbenzene	ND	25.0
135-98-8	sec - Butylbenzene	ND	25.0
541-73-1	1,3 - Dichlorobenzene	ND	25.0
106-46-7	1,4 - Dichlorobenzene	ND	25.0
99-87-6	4-Isopropyltoluene	ND	25.0
95-50-1	1,2 - Dichlorobenzene	ND	25.0
104-51-8	n - Butylbenzene	ND	25.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	125.0
120-82-1	1,2,4 - Trichlorobenzene	ND	25.0
91-20-3	Naphthalene	ND	25.0
87-68-3	Hexachlorobutadiene	ND	25.0
87-61-6	1,2 3 - Trichlorobenzene	ND	25.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1325549	1388793	95.4%	50 - 200 %
Fluorobenzene	3460826	3679984	94.0%	50 - 200 %
1,4 - Difluorobenzene	2489787	2589504	96.1%	50 - 200 %
Chlorobenzene - d5	1833183	1910498	96.0%	50 - 200 %
1,4 - Dichlorobenzene - d4	696012	669702	104%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	11.5	115%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	10.3	103%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.86	98.6%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93-007.AD-INP. 5/97
Laboratory ID: C97-27400
Matrix: Air
Dilution Factor: 1

Date Sampled: 05/13/97
Date Received: 05/14/97
Date Analyzed: 05/14/97
Date Reported: May 25, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF	
		(mg/m ³)	DETECTION (mg/m ³)	
75-71-8	Dichlorodifluoromethane	ND	1.0	
74-87-3	Chloromethane	ND	1.0	
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
75-35-4	1,1 - Dichloroethene	2.19	1.0	
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0	
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0	
75-34-3	1,1 - Dichloroethane	ND	1.0	
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
67-66-3	Chloroform (Trichloromethane)	ND	1.0	
594-20-7	2,2 - Dichloropropane	ND	1.0	
71-55-6	1,1,1 - Trichloroethane	2.09	1.0	
107-06-2	1,2 - Dichloroethane	ND	1.0	
563-58-6	1,1 - Dichloropropene	ND	1.0	
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0	
71-43-2	Benzene	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
78-87-5	1,2 - Dichloropropane	ND	1.0	
79-01-6	Trichloroethene	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0	
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0	
79-00-5	1,1,2 - Trichloroethane	ND	1.0	
108-88-3	Toluene	4.06	1.0	
106-93-4	1,2 - Dibromoethane	ND	1.0	
142-28-9	1,3 - Dichloropropane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
127-18-4	Tetrachloroethene	10.3	1.0	
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	1.86	J	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0	
100-42-5	Styrene (Ethenylbenzene)	ND	1.0	
95-47-6	o - Xylene (1,2-Dimethylbenzene)	2.02	1.0	
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0	
96-18-4	1,2,3 - Trichloropropane	ND	1.0	

*ND - Analyte not detected at stated limit of detection**J - Meets Mass Spectral identification criteria but result is below established detection limit*



EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93-007.AD-INP. 5/97
Laboratory ID: C97-27400

Date Sampled: 05/13/97
Date Analyzed: 05/14/97
Date Reported: May 25, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	3.75	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	2.42	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1386815	1388793	99.9%	50 - 200 %
Fluorobenzene	3540147	3679984	96.2%	50 - 200 %
1,4 - Difluorobenzene	2515943	2589504	97.2%	50 - 200 %
Chlorobenzene - d5	1884394	1910498	98.6%	50 - 200 %
1,4 - Dichlorobenzene - d4	686263	669702	102%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	11.2	112%	86 - 118 %
Toluene - d8	10.3	103%	88 - 110 %
4 - Bromofluorobenzene	10.4	104%	86 - 115 %
1,2 - Dichlorobenzene - d4	9.94	99.4%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93-007.WP-INP. 5/97
Laboratory ID: C97-27401
Matrix: Air
Dilution Factor: 5

Date Sampled: 05/13/97
Date Received: 05/14/97
Date Analyzed: 05/14/97
Date Reported: May 25, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION	LIMIT OF
		(mg/m ³)	DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	5.0
74-87-3	Chloromethane	ND	5.0
75-01-4	Vinyl chloride (Chloroethene)	ND	5.0
74-83-9	Bromomethane	ND	5.0
75-00-3	Chloroethane	ND	5.0
75-69-4	Trichlorofluoromethane	ND	5.0
75-35-4	1,1 - Dichloroethene	9.10	5.0
75-09-2	Methylene chloride (Dichloromethane)	ND	5.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	5.0
75-34-3	1,1 - Dichloroethane	10.2	5.0
156-59-2	cis - 1,2 - Dichloroethene	ND	5.0
74-97-5	Bromochloromethane	ND	5.0
67-66-3	Chloroform (Trichloromethane)	ND	5.0
594-20-7	2,2 - Dichloropropane	ND	5.0
71-55-6	1,1,1 - Trichloroethane	74.1	5.0
107-06-2	1,2 - Dichloroethane	ND	5.0
563-58-6	1,1 - Dichloropropene	ND	5.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	5.0
71-43-2	Benzene	5.70	5.0
74-95-3	Dibromomethane	ND	5.0
78-87-5	1,2 - Dichloropropane	ND	5.0
79-01-6	Trichloroethene	ND	5.0
75-27-4	Bromodichloromethane	ND	5.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	5.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	5.0
79-00-5	1,1,2 - Trichloroethane	ND	5.0
108-88-3	Toluene	95.5	5.0
106-93-4	1,2 - Dibromoethane	ND	5.0
142-28-9	1,3 - Dichloropropane	ND	5.0
124-48-1	Dibromochloromethane	ND	5.0
127-18-4	Tetrachloroethene	66.3	5.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	5.0
108-90-7	Chlorobenzene	ND	5.0
100-41-4	Ethylbenzene	19.7	5.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	63.5	10.0
75-25-2	Bromoform (Tribromomethane)	ND	5.0
100-42-5	Styrene (Ethenylbenzene)	ND	5.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	45.9	5.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	5.0
96-18-4	1,2,3 - Trichloropropane	ND	5.0

*ND - Analyte not detected at stated limit of detection**J - Meets Mass Spectral identification criteria but result is below established detection limit*



EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93-007.WP-INP. 5/97
Laboratory ID: C97-27401

Date Sampled: 05/13/97
Date Analyzed: 05/14/97
Date Reported: May 25, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	8.90	5.0
108-86-1	Bromobenzene	ND	5.0
103-65-1	n - Propylbenzene	13.0	5.0
95-49-8	2 - Chlorotoluene	ND	5.0
106-43-4	4 - Chlorotoluene	ND	5.0
108-67-8	1,3,5 - Trimethylbenzene	54.8	5.0
98-06-6	tert - Butylbenzene	ND	5.0
95-63-6	1,2,4 - Trimethylbenzene	23.9	5.0
135-98-8	sec - Butylbenzene	ND	5.0
541-73-1	1,3 - Dichlorobenzene	ND	5.0
106-46-7	1,4 - Dichlorobenzene	ND	5.0
99-87-6	4-Isopropyltoluene	ND	5.0
95-50-1	1,2 - Dichlorobenzene	ND	5.0
104-51-8	n - Butylbenzene	ND	5.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	25.0
120-82-1	1,2,4 - Trichlorobenzene	ND	5.0
91-20-3	Naphthalene	ND	5.0
87-68-3	Hexachlorobutadiene	ND	5.0
87-61-6	1,2 3 - Trichlorobenzene	ND	5.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

RUNTIME QUALITY ASSURANCE REPORT

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	1319006	1388793	95.0%	50 - 200 %
Fluorobenzene	3316920	3679984	90.1%	50 - 200 %
1,4 - Difluorobenzene	2439384	2589504	94.2%	50 - 200 %
Chlorobenzene - d5	1815393	1910498	95.0%	50 - 200 %
1,4 - Dichlorobenzene - d4	663235	669702	99.0%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	11.3	113%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	10.1	101%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.2	102%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990



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EPA METHOD 8260

Acid Dock Unit
Input

Client: Western Water Consultants
Sample ID: 93007-AD-INP-1/97
Laboratory ID: C97-11256
Matrix: Air
Dilution Factor: 1

Date Sampled: 01/21/97
Date Received: 01/22/97
Date Analyzed: 01/22/97
Date Reported: February 02, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	1.34	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	5.67	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	8.86	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	1.18 J	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	1.20	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



Acid Dock Unit
Input

EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-AD-INP-1/97
Laboratory ID: C97-11256

Date Sampled: 01/21/97
Date Analyzed: 01/22/97
Date Reported: February 2, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	1.39	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

Runtime Quality Assurance Report

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	716097	759181	94.3%	50 - 200 %
Fluorobenzene	1882885	1926580	97.7%	50 - 200 %
1,4 - Difluorobenzene	1578526	1659859	95.1%	50 - 200 %
Chlorobenzene - d5	1158137	1189173	97.4%	50 - 200 %
1,4 - Dichlorobenzene - d4	393498	408290	96.4%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	11.4	114%	86 - 118 %
Toluene - d8	10.2	102%	88 - 110 %
4 - Bromofluorobenzene	10.0	100%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.5	105%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-AD-EXH-1/97
Laboratory ID: C97-11257
Matrix: Air
Dilution Factor: 1

*Acid Duct Unit
Exhaust*

Date Sampled: 01/21/97
Date Received: 01/22/97
Date Analyzed: 01/22/97
Date Reported: February 02, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	ND	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit



Acid Out Unit
Exhaust

EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-AD-EXH-1/97
Laboratory ID: C97-11257

Date Sampled: 01/21/97
Date Analyzed: 01/22/97
Date Reported: February 2, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

Runtime Quality Assurance Report

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	738760	759181	97.3%	50 - 200 %
Fluorobenzene	1883532	1926580	97.8%	50 - 200 %
1,4 - Difluorobenzene	1622387	1659859	97.7%	50 - 200 %
Chlorobenzene - d5	1166944	1189173	98.1%	50 - 200 %
1,4 - Dichlorobenzene - d4	380641	408290	93.2%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	11.1	111%	86 - 118 %
Toluene - d8	10.0	100%	88 - 110 %
4 - Bromofluorobenzene	10.2	102%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

Report File: F:\REPORTS\CLIENTS.97\WEST_WAT.ER\ORGANIC.CAS\

Analyst: yw
Reviewed: sec

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-UST-INP-1/97
Laboratory ID: C97-11258
Matrix: Air
Dilution Factor: 1

UST Unit
Input

Date Sampled: 01/21/97
Date Received: 01/22/97
Date Analyzed: 01/22/97
Date Reported: February 02, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	ND	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	30.0	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	2.80	1.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	0.47	J 1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	63.3	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	0.58	J 1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	205	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

*ND - Analyte not detected at stated limit of detection**J - Meets Mass Spectral identification criteria but result is below established detection limit*



UST Unit
Input

EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-UST-INP-1/97
Laboratory ID: C97-11258

Date Sampled: 01/21/97
Date Analyzed: 01/22/97
Date Reported: February 2, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2 3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

Runtime Quality Assurance Report

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	721258	759181	95.0%	50 - 200 %
Fluorobenzene	1901604	1926580	98.7%	50 - 200 %
1,4 - Difluorobenzene	1612338	1659859	97.1%	50 - 200 %
Chlorobenzene - d5	1187554	1189173	99.9%	50 - 200 %
1,4 - Dichlorobenzene - d4	384275	408290	94.1%	50 - 200 %

SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	11.3	113%	86 - 118 %
Toluene - d8	10.1	101%	88 - 110 %
4 - Bromofluorobenzene	10.1	101%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.1	101%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

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EPA METHOD 8260

Client: **Western Water Consultants**
Sample ID: 93007-UST-EXH-1/97
Laboratory ID: C97-11259
Matrix: Air
Dilution Factor: 1

UST Unit
Exhaust

Date Sampled: 01/21/97
Date Received: 01/22/97
Date Analyzed: 01/22/97
Date Reported: February 02, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
75-71-8	Dichlorodifluoromethane	ND	1.0
74-87-3	Chloromethane	2.50	1.0
75-01-4	Vinyl chloride (Chloroethene)	ND	1.0
74-83-9	Bromomethane	ND	1.0
75-00-3	Chloroethane	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
75-35-4	1,1 - Dichloroethene	ND	1.0
75-09-2	Methylene chloride (Dichloromethane)	ND	1.0
156-60-5	trans - 1, 2 - Dichloroethene	ND	1.0
75-34-3	1,1 - Dichloroethane	ND	1.0
156-59-2	cis - 1,2 - Dichloroethene	ND	1.0
74-97-5	Bromochloromethane	ND	1.0
67-66-3	Chloroform (Trichloromethane)	ND	1.0
594-20-7	2,2 - Dichloropropane	ND	1.0
71-55-6	1,1,1 - Trichloroethane	ND	1.0
107-06-2	1,2 - Dichloroethane	ND	1.0
563-58-6	1,1 - Dichloropropene	ND	1.0
56-23-5	Carbon tetrachloride (Tetrachloromethane)	ND	1.0
71-43-2	Benzene	ND	1.0
74-95-3	Dibromomethane	ND	1.0
78-87-5	1,2 - Dichloropropane	ND	1.0
79-01-6	Trichloroethene	ND	1.0
75-27-4	Bromodichloromethane	ND	1.0
10061-01-5	cis - 1,3 - Dichloropropene	ND	1.0
10061-02-6	trans - 1,3 - Dichloropropene	ND	1.0
79-00-5	1,1,2 - Trichloroethane	ND	1.0
108-88-3	Toluene	ND	1.0
106-93-4	1,2 - Dibromoethane	ND	1.0
142-28-9	1,3 - Dichloropropane	ND	1.0
124-48-1	Dibromochloromethane	ND	1.0
127-18-4	Tetrachloroethene	6.19	1.0
630-20-6	1,1,1,2 - Tetrachloroethane	ND	1.0
108-90-7	Chlorobenzene	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
108-38-3	m,p - Xylenes (1,3- & 1,4-Dimethylbenzene)	ND	2.0
75-25-2	Bromoform (Tribromomethane)	ND	1.0
100-42-5	Styrene (Ethenylbenzene)	ND	1.0
95-47-6	o - Xylene (1,2-Dimethylbenzene)	ND	1.0
79-34-5	1,1,2,2 - Tetrachloroethane	ND	1.0
96-18-4	1,2,3 - Trichloropropane	ND	1.0

*ND - Analyte not detected at stated limit of detection**J - Meets Mass Spectral identification criteria but result is below established detection limit*



UST Unit
Exhaust

EPA METHOD 8260

Client: Western Water Consultants
Sample ID: 93007-UST-EXH-1/97
Laboratory ID: C97-11259

Date Sampled: 01/21/97
Date Analyzed: 01/22/97
Date Reported: February 2, 1997

C.A.S. #	TARGET COMPOUNDS	CONCENTRATION (mg/m ³)	LIMIT OF DETECTION (mg/m ³)
98-82-8	Isopropylbenzene (1-Methylethylbenzene)	ND	1.0
108-86-1	Bromobenzene	ND	1.0
103-65-1	n - Propylbenzene	ND	1.0
95-49-8	2 - Chlorotoluene	ND	1.0
106-43-4	4 - Chlorotoluene	ND	1.0
108-67-8	1,3,5 - Trimethylbenzene	ND	1.0
98-06-6	tert - Butylbenzene	ND	1.0
95-63-6	1,2,4 - Trimethylbenzene	ND	1.0
135-98-8	sec - Butylbenzene	ND	1.0
541-73-1	1,3 - Dichlorobenzene	ND	1.0
106-46-7	1,4 - Dichlorobenzene	ND	1.0
99-87-6	4-Isopropyltoluene	ND	1.0
95-50-1	1,2 - Dichlorobenzene	ND	1.0
104-51-8	n - Butylbenzene	ND	1.0
96-12-8	1,2 - Dibromo - 3 - chloropropane	ND	5.0
120-82-1	1,2,4 - Trichlorobenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
87-61-6	1,2,3 - Trichlorobenzene	ND	1.0

ND - Analyte not detected at stated limit of detection

J - Meets Mass Spectral identification criteria but result is below established detection limit

Runtime Quality Assurance Report

INTERNAL STANDARDS	AREA	ICAL / CCAL AREA	PERCENT RECOVERY	ACCEPTANCE RANGE
Pentafluorobenzene	775242	759181	102%	50 - 200 %
Fluorobenzene	1962104	1926580	102%	50 - 200 %
1,4 - Difluorobenzene	1689434	1659859	102%	50 - 200 %
Chlorobenzene - d5	1221432	1189173	103%	50 - 200 %
1,4 - Dichlorobenzene - d4	400959	408290	98.2%	50 - 200 %

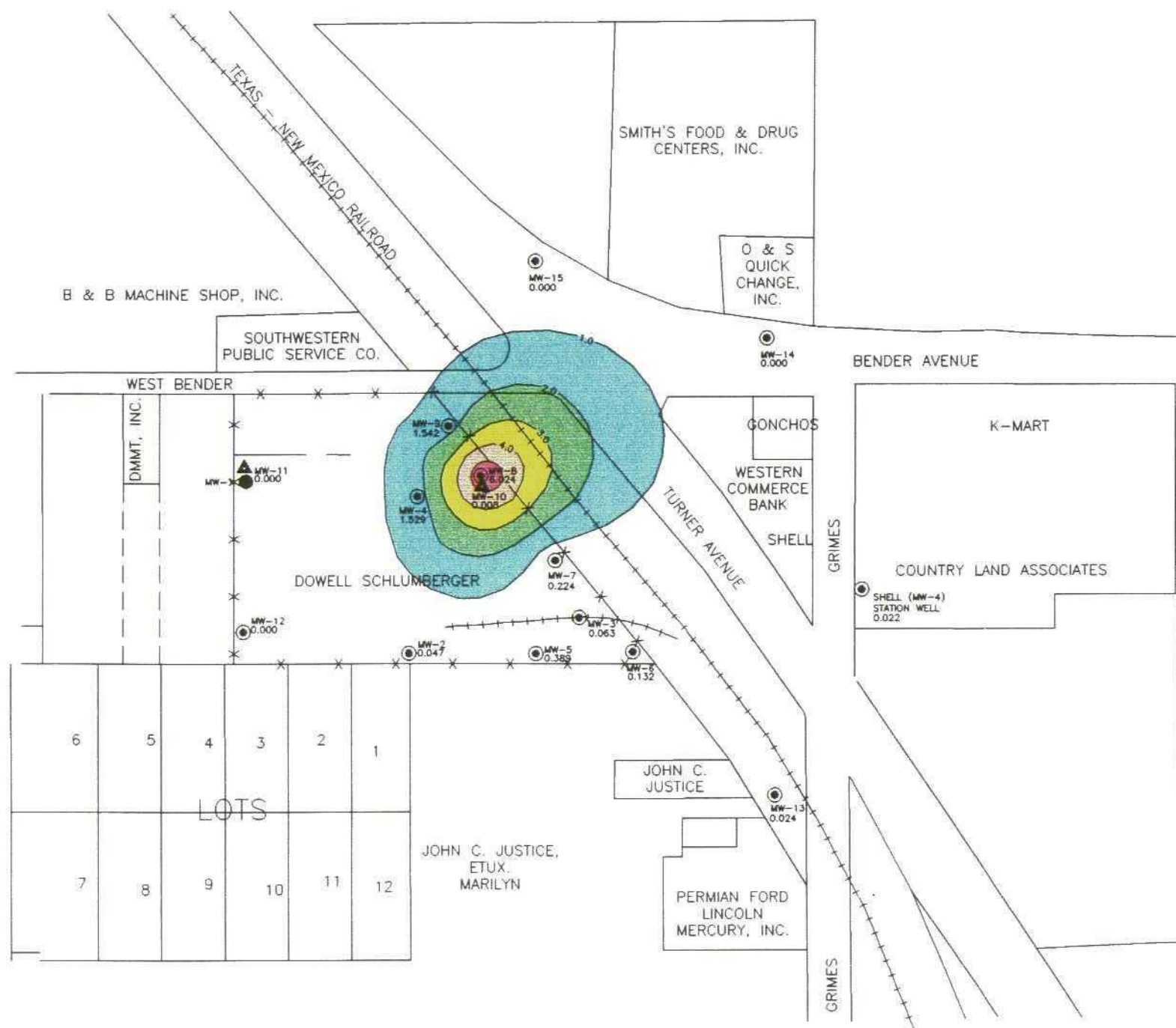
SYSTEM MONITORING COMPOUNDS	CONCENTRATION	PERCENT RECOVERY	ACCEPTANCE RANGE
Dibromofluoromethane	11.3	113%	86 - 118 %
Toluene - d8	10.0	100%	88 - 110 %
4 - Bromofluorobenzene	10.3	103%	86 - 115 %
1,2 - Dichlorobenzene - d4	10.0	100%	80 - 120 %

REFERENCES

Method 8260: Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Technique
Test Methods for Evaluating Solid Waste, SW-846, Third Edition, USEPA, November 1990

APPENDIX C

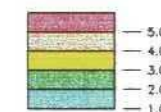
**ISOCONCENTRATION MAP
AND PLOTS**



EXPLANATION

- MW-8 0.483 ● SHALLOW MONITORING WELL LOCATION, IDENTIFICATION AND TOTAL HALOCARBONS CONCENTRATIONS
- MW-1 ● ABANDONED MONITORING WELL
- MW-11 0.000 ▲ DEEP MONITORING WELL LOCATION, IDENTIFICATION AND TOTAL HALOCARBONS CONCENTRATIONS
- 1.00 / TOTAL HALOCARBONS CONTOURS

TOTAL HALOCARBONS CONCENTRATIONS (mg/L)



0 300 ft.
SCALE

TOTAL HALOCARBONS CONCENTRATION MAP (10-16-97)

DOWELL, A DIVISION OF
SCHLUMBERGER TECHNOLOGY CORPORATION
HOBBS, NM

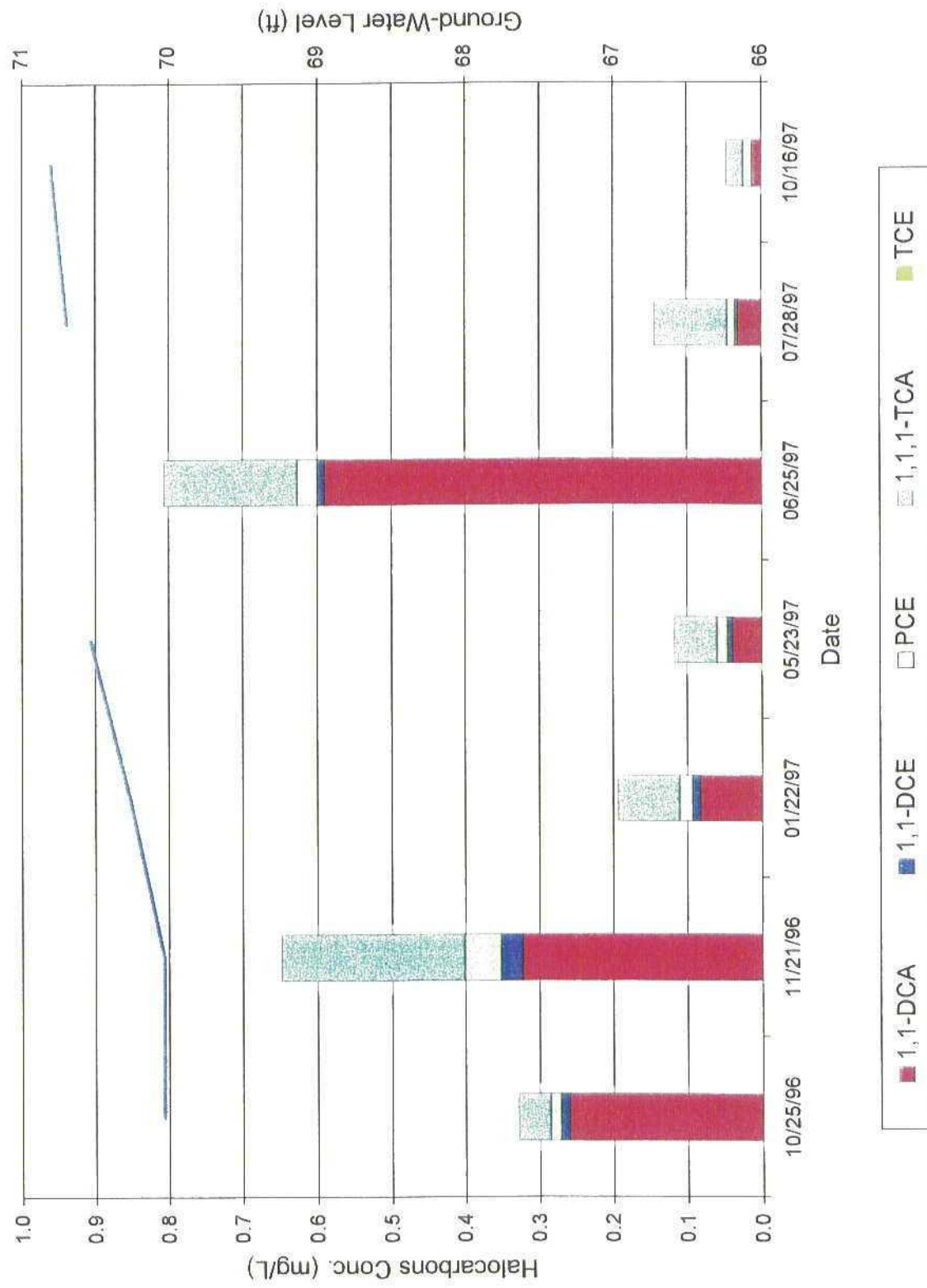
Western
Water
Consultants, Inc.  Engineering
Engineering Environmental Mining Water Resources

The chart displays the following data series:

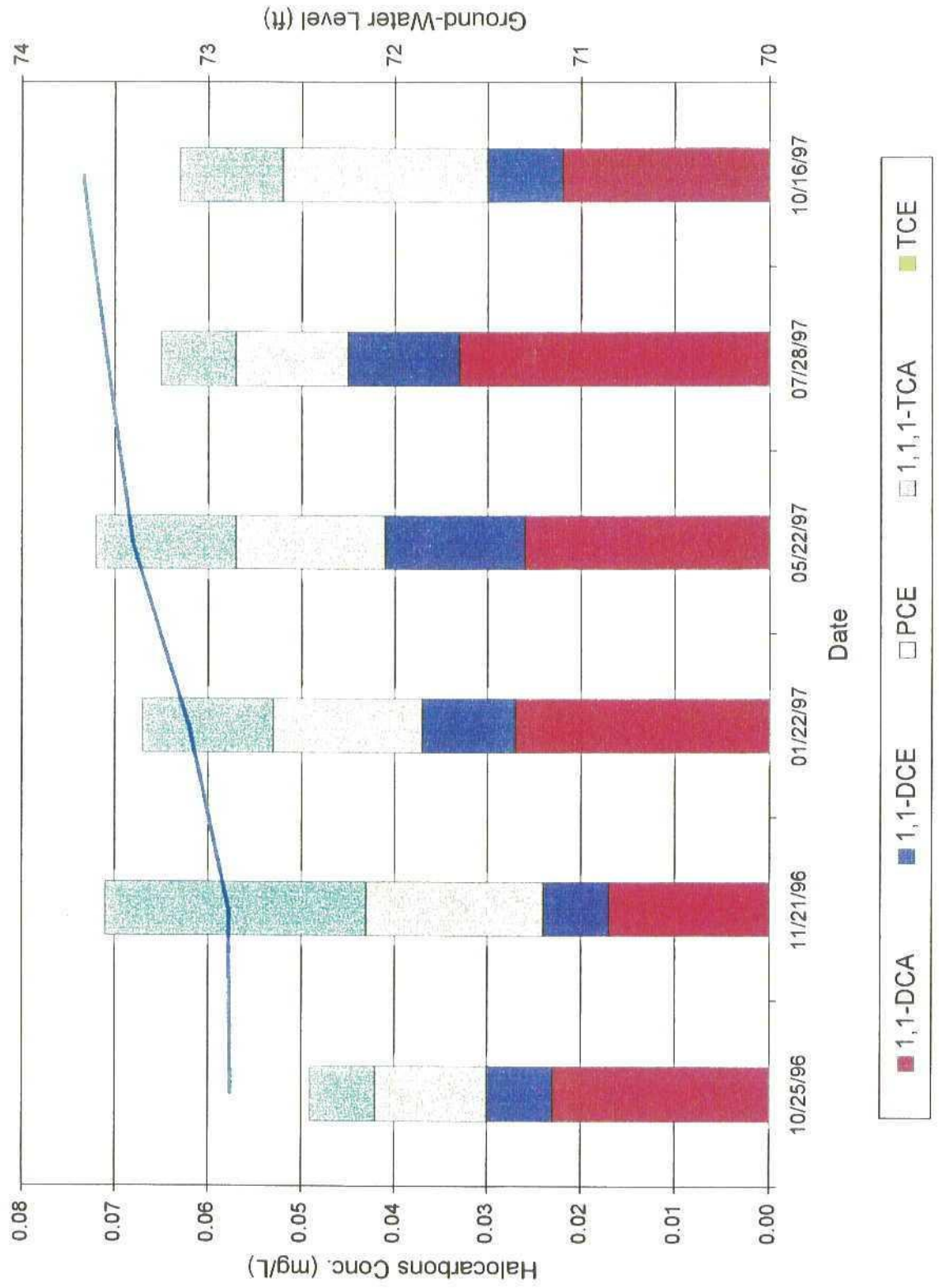
- 1,1-DCA** (Red bars): Concentration peaks at approximately 0.006 mg/L in late 1996 and early 1997.
- 1,1-DCE** (Blue bars): Concentration is very low, near 0.000 mg/L.
- PCE** (White bars): Concentration is approximately 0.002 mg/L from late 1996 to early 1997.
- 1,1,1-TCA** (Green bars): Concentration is approximately 0.002 mg/L in late 1996.
- TCE** (Yellow line): Ground-water level fluctuates between approximately 67.5 ft and 68.5 ft.

Date	1,1-DCA (mg/L)	1,1-DCE (mg/L)	PCE (mg/L)	1,1,1-TCA (mg/L)	TCE (ft)
10/25/96	0.000	0.000	0.000	0.000	67.5
11/21/96	0.006	0.000	0.002	0.002	68.5
01/22/97	0.006	0.000	0.002	0.000	68.0
05/23/97	0.000	0.000	0.000	0.000	68.0
06/25/97	0.000	0.000	0.000	0.000	68.0
07/28/97	0.000	0.000	0.000	0.000	68.0
10/16/97	0.000	0.000	0.000	0.000	68.0

Monitoring Well MW-2 Halocarbons & Ground-Water Level

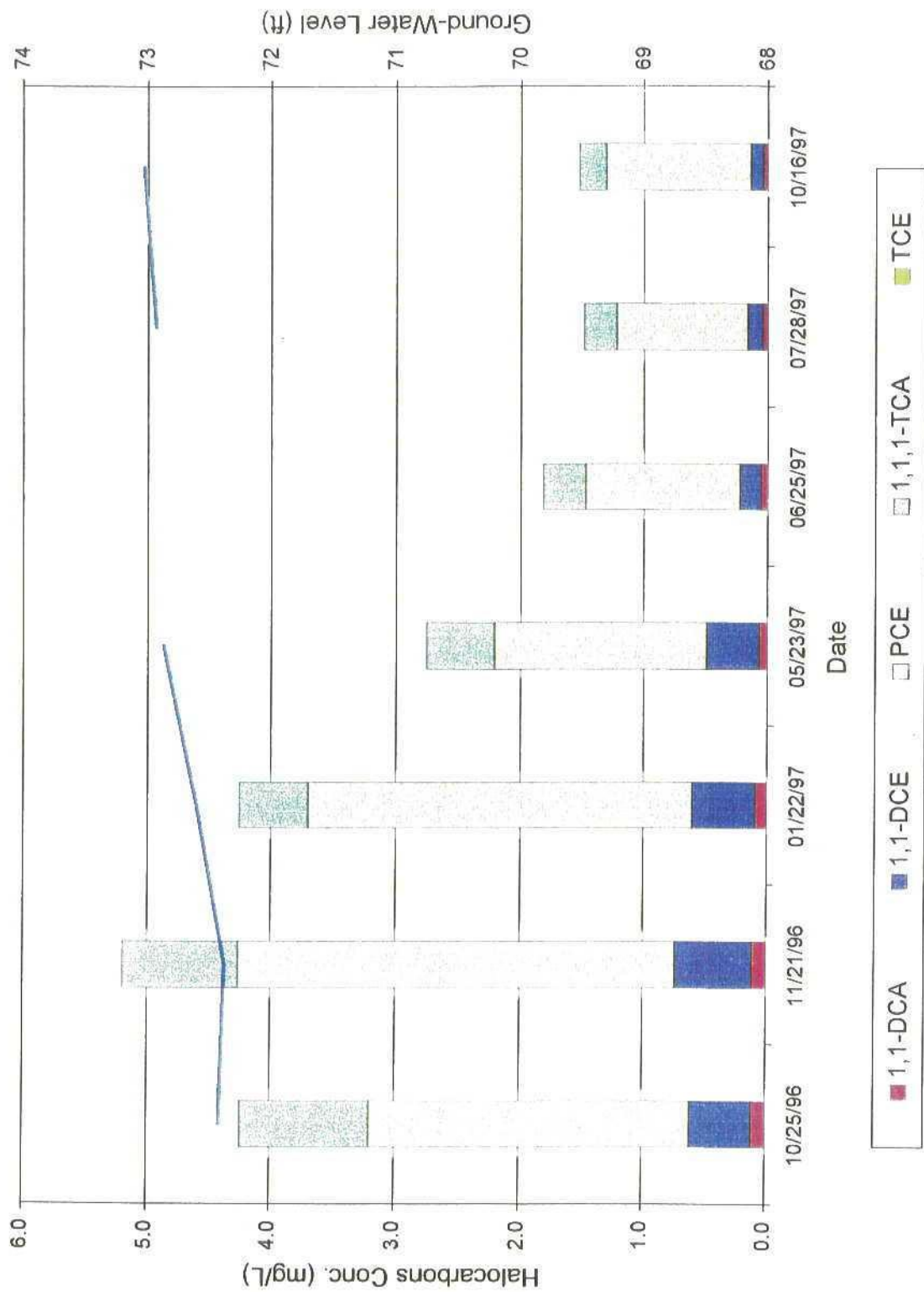


Monitoring Well MW-3 Halocarbons & Ground-Water Level

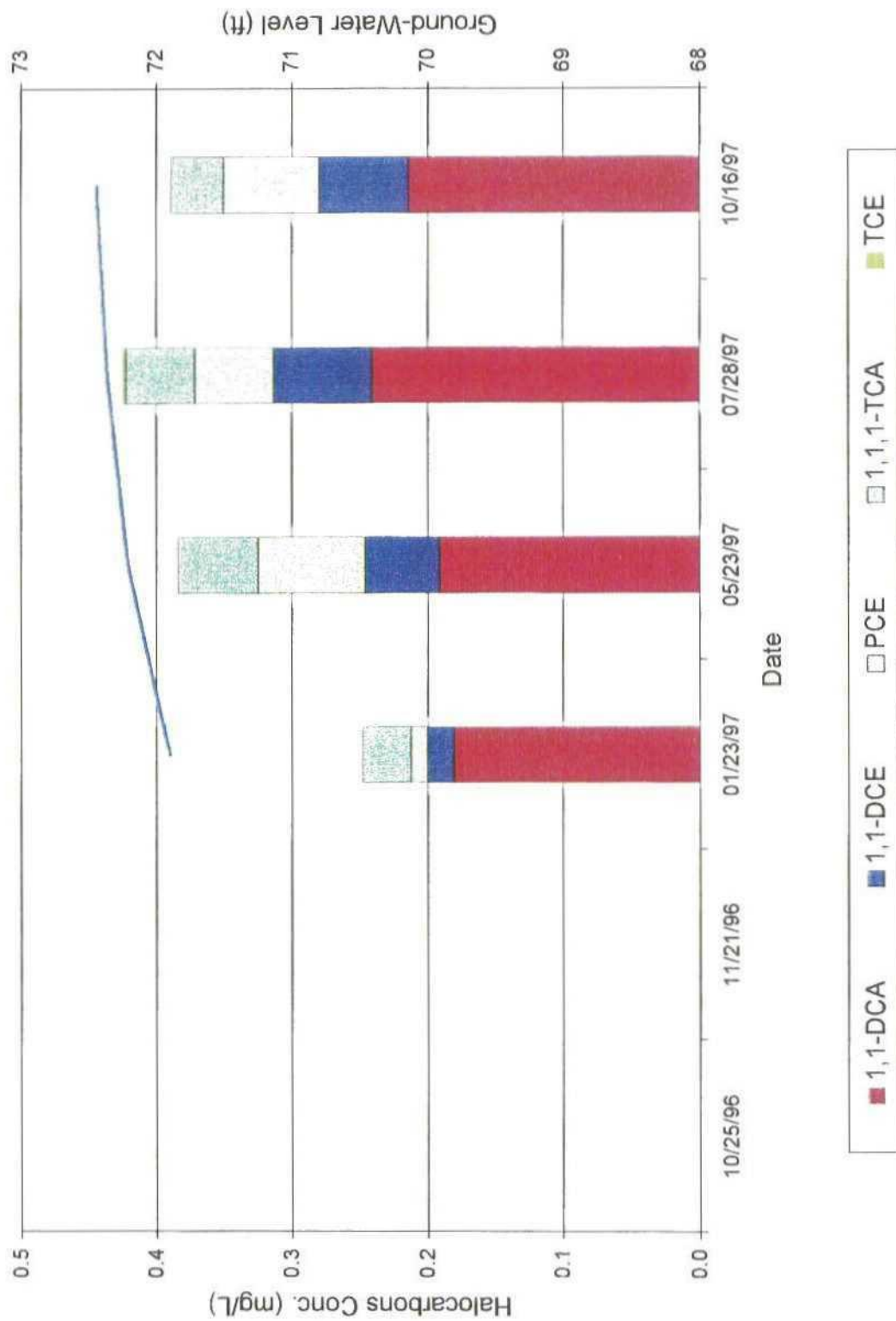


Monitoring Well MW-4

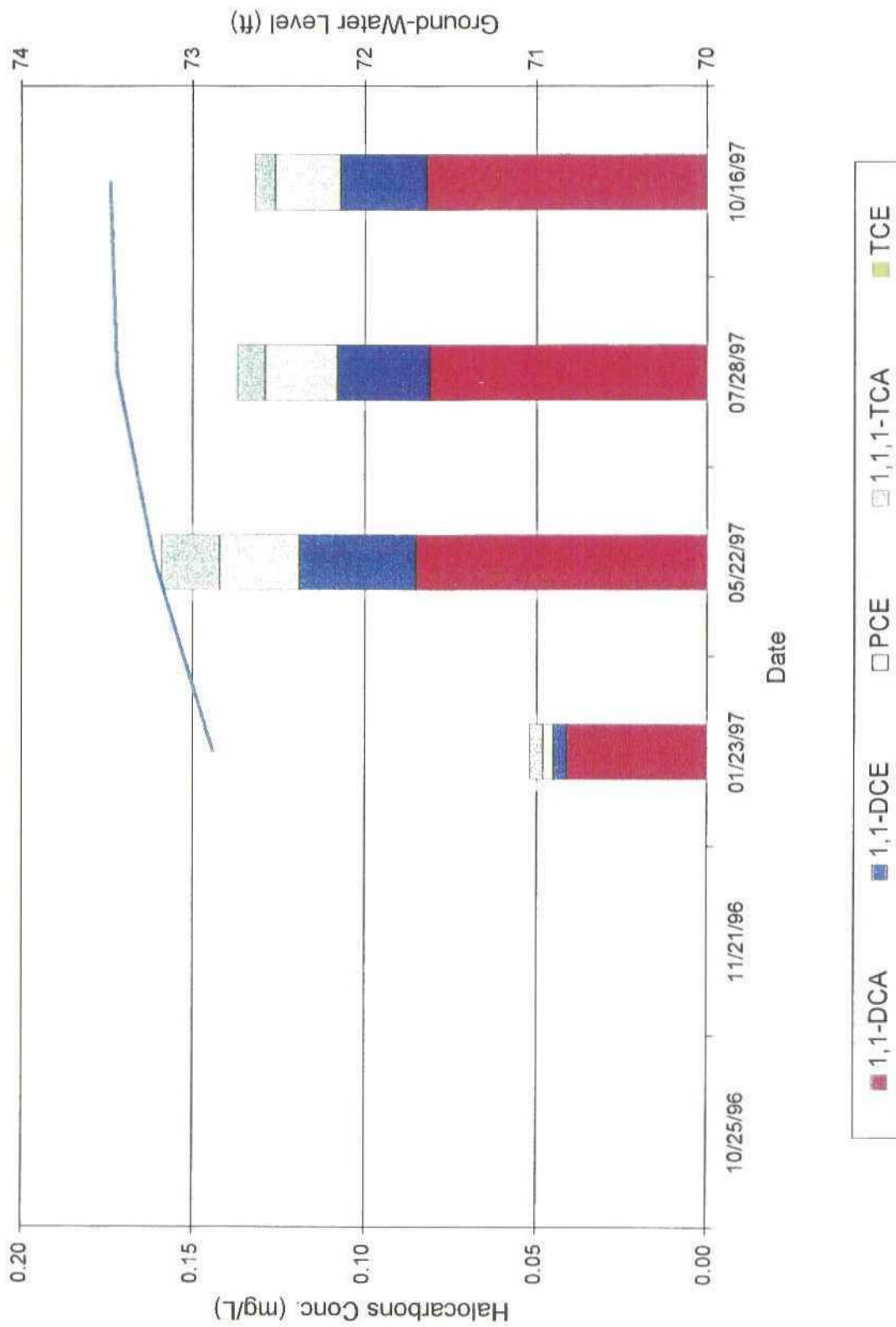
Halocarbons & Ground-Water Level



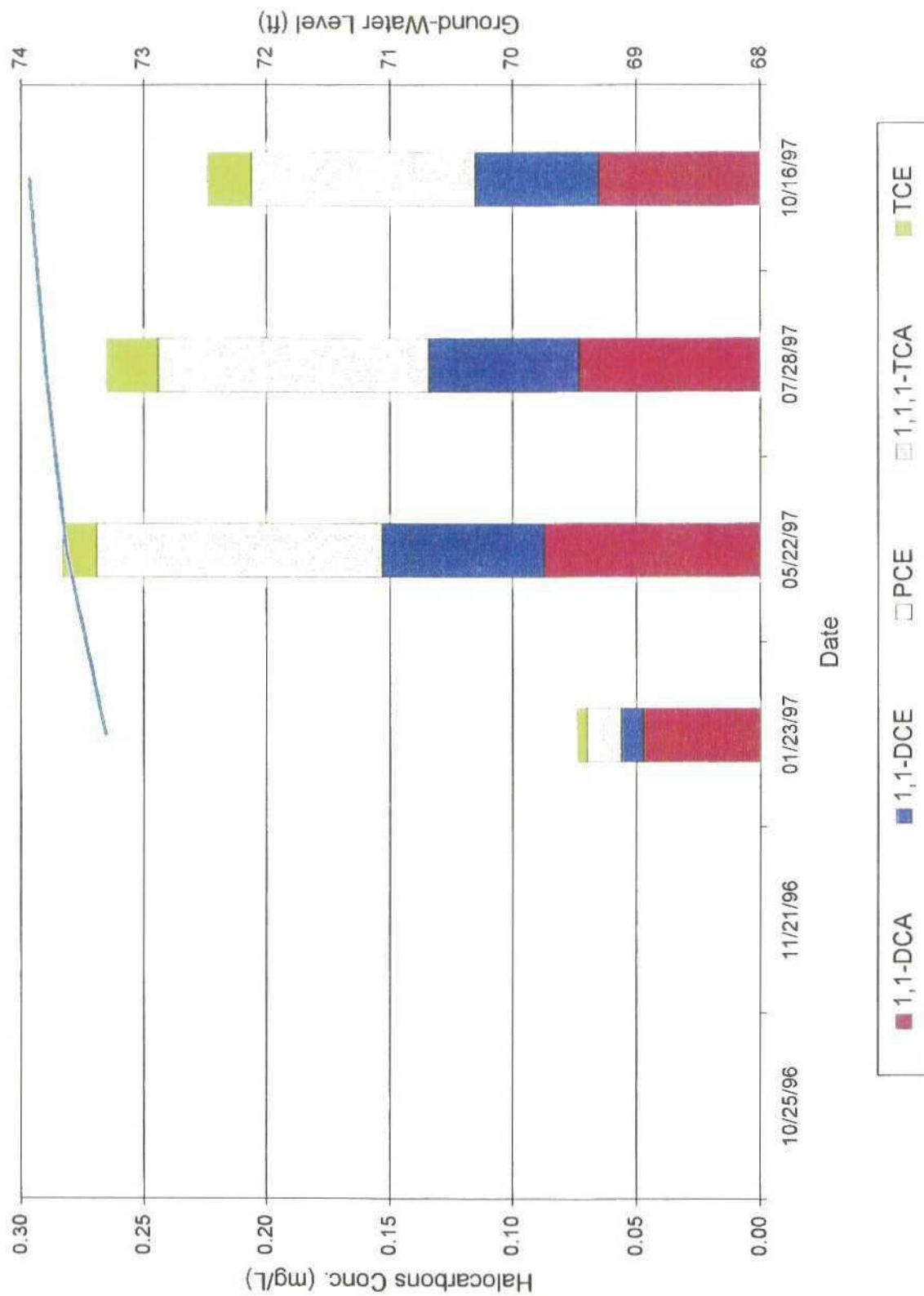
Monitoring Well MW-5 Halocarbons & Ground-Water Level



Monitoring Well MW-6 Halocarbons & Ground-Water Level



Monitoring Well MW-7 Halocarbons & Ground-Water Level



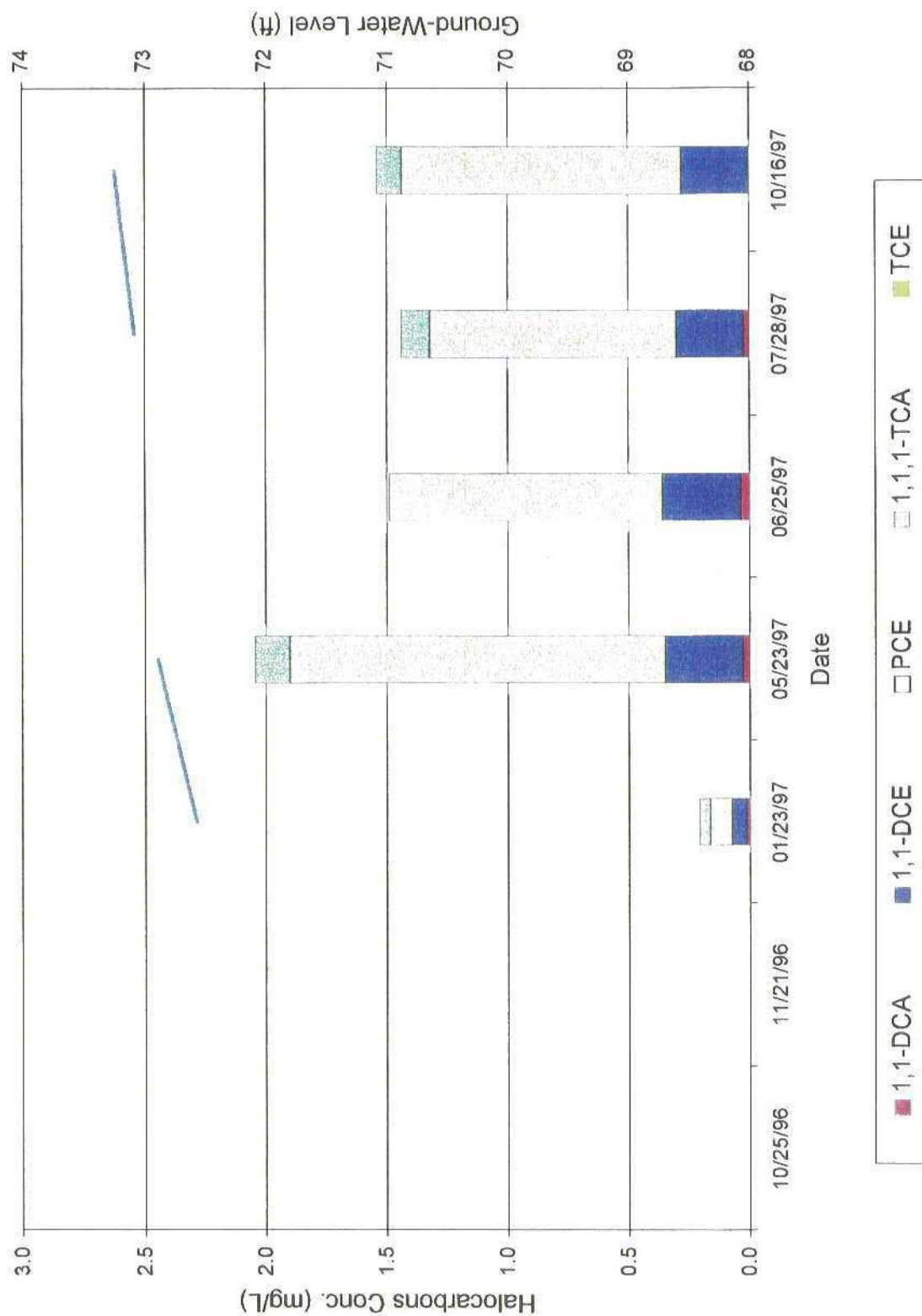
The chart displays two data series over time from October 1996 to October 1997. The left y-axis represents Halocarbons Concentration in mg/L, ranging from 0.0 to 7.0. The right y-axis represents Ground-Water Level in feet, ranging from 67 to 74. The x-axis shows dates: 10/25/96, 11/21/96, 01/23/97, 05/23/97, 06/25/97, 07/28/97, and 10/16/97.

The Halocarbons Concentration is shown as stacked bars with the following color segments from top to bottom: red, blue, white, green, and grey. The Ground-Water Level is shown as two horizontal lines: a solid blue line and a dashed blue line.

Date	Halocarbons Concentration (mg/L)	Ground-Water Level (ft) - Solid Line	Ground-Water Level (ft) - Dashed Line
10/25/96	~0.2	~67.5	~67.5
11/21/96	~0.2	~67.5	~67.5
01/23/97	~1.5	~67.5	~67.5
05/23/97	~6.5	~67.5	~67.5
06/25/97	~5.5	~67.5	~67.5
07/28/97	~6.5	~67.5	~67.5
10/16/97	~6.5	~67.5	~67.5

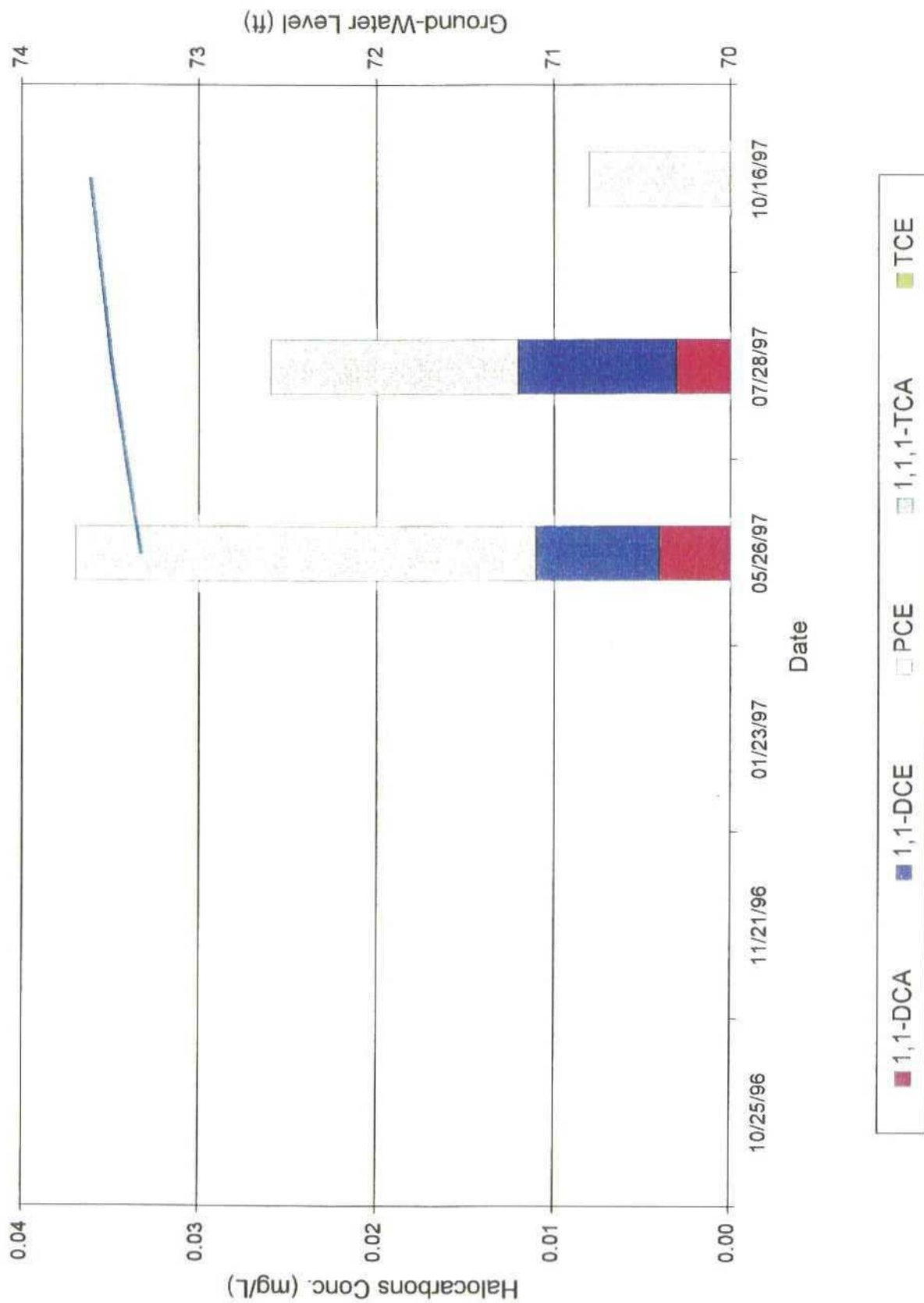


Monitoring Well MW-9 Halocarbons & Ground-Water Level



Monitoring Well MW-10

Halocarbons & Ground-Water Level



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The chart displays the concentration of various halocarbons in groundwater over time. The left y-axis represents Halocarbons Concentration (mg/L), ranging from 0.0000 to 0.0015. The right y-axis represents Ground-Water Level (ft), ranging from 66 to 69. The x-axis represents the Date, from 10/25/96 to 10/16/97. A shaded region highlights the period from approximately 01/23/97 to 05/25/97. The legend indicates the following data series: 1,1-DCA (red square), 1,1-DCE (blue square), PCE (green square), 1,1,1,1-TCA (yellow square), and TCE (purple square).

Date	1,1-DCA (mg/L)	1,1-DCE (mg/L)	PCE (mg/L)	1,1,1,1-TCA (mg/L)	TCE (mg/L)	Ground-Water Level (ft)
10/25/96	0.0000	0.0000	0.0000	0.0000	0.0000	68.5
11/21/96	0.0000	0.0000	0.0000	0.0000	0.0000	68.5
01/23/97	0.0000	0.0000	0.0000	0.0000	0.0000	68.5
05/25/97	0.0000	0.0000	0.0000	0.0000	0.0000	68.5
07/28/97	0.0000	0.0000	0.0000	0.0000	0.0000	68.5
10/16/97	0.0000	0.0000	0.0000	0.0000	0.0000	68.5

The chart displays the concentration of various halocarbons in groundwater over time, alongside the groundwater level. The x-axis represents the date, ranging from 10/25/96 to 10/16/97. The left y-axis shows Halocarbon Concentration in mg/L, ranging from 0.000 to 0.030. The right y-axis shows Ground-Water Level in feet, ranging from 69 to 73.

The legend identifies the following data series:

- 1,1-DCA (Red bar)
- 1,1-DCE (Blue bar)
- 1,1,1-TCA (Green bar)
- PCE (Yellow bar)
- TCE (Purple bar)
- Ground-Water Level (ft) (Line graph)

The groundwater level shows a significant decrease from approximately 72.5 ft in late 1996 to about 70.5 ft by mid-1997, followed by a slight recovery. The halocarbon concentrations are highest in late 1996 and early 1997, with 1,1-DCE being the most prominent component.

Date	1,1-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1-TCA (mg/L)	PCE (mg/L)	TCE (mg/L)	Ground-Water Level (ft)
10/25/96	0.000	0.000	0.000	0.000	0.000	~72.5
11/21/96	0.000	0.000	0.000	0.000	0.000	~72.5
01/23/97	0.000	0.000	0.000	0.000	0.000	~72.5
05/24/97	0.000	0.017	0.000	0.000	0.000	~70.5
07/28/97	0.000	0.017	0.000	0.000	0.000	~70.5
10/16/97	0.000	0.017	0.000	0.000	0.000	~70.5

Monitoring Well MW-14

Halocarbons & Ground-Water Level



Monitoring Well MW-15 Halocarbons & Ground-Water Level



Shell Station Monitoring Well MW-4 Halocarbons & Ground-Water Level

