

GW - 114

MONITORING REPORTS

DATE:

7/94 GW REPORT

Schlumberger

Oilfield Services Shared Resources

John A. Miller
Remediation Manager

file 90-125 B
WESTERN WATER CONSULTANTS, INC.

AUG - 1 1994

LARAMIE, WY 82070

July 25, 1994

Mr. Anthony Moreland
Underground Storage Tank Bureau
New Mexico Environment Department
1190 St. Francis Drive
Santa Fe. NM 87503

RECEIVED

AUG 26 1996

Environmental Bureau
Oil Conservation Division

Re: Results of April 1994 Ground-water Monitoring Event,
Dowell Schlumberger Incorporated Facility, Artesia, New Mexico

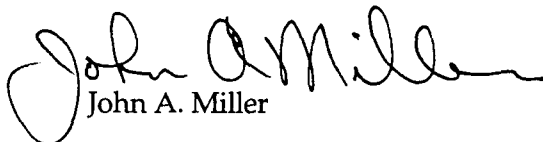
Dear Tony:

On April 19, 1994, Western Water Consultants, Inc. (WWC) conducted the second quarterly ground-water monitoring event associated with operation of the soil vapor extraction (SVE) system at the Dowell Schlumberger Incorporated facility in Artesia, New Mexico. Static water levels, measured prior to bailing, are presented in Table 1. The potentiometric surface map generated from the April 1994 data is shown on Figure 1. The analytical results from the April 1994 samples are presented in Table 2. Laboratory analytical reports for the April samples are appended to this letter.

Monitoring well MW-3 could not be located in April due to the presence of construction materials, and hence was not monitored for this event. Subsequently, the well was relocated and has been sampled as part of the third quarterly sampling event which occurred during the week of July 18 to 22, 1994. Because data for MW-3 were unavailable for April 1994, the performance evaluation for the SVE systems could not be prepared. MW-3 is located in or near the wash bay source area and data from this well are critical in identifying performance parameters for the SVE system in the northeastern corner of the facility. The performance evaluation will be prepared after receipt of the July 1994 monitoring data. Inclusion of these July data also will allow evaluation of the SVE performance during the warmer summer months.

If you have questions or comments, please contact me at 713-275-8498.

Sincerely,


John A. Miller

JAM:lb

Enclosures

cc: WWC, Laramie

P.O. Box 2727, Houston, Texas 77252-2727
300 Schlumberger Drive, Sugar Land, Texas 77478
(713) 275-8498 (713) 275-8526 (fax)

**TABLE 1. GROUND-WATER MEASUREMENTS AND ELEVATIONS, APRIL 1994,
DOWELL SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO.**

WELL #	DATE	DEPTH TO GROUND WATER (ft)	MEASURING POINT ELEVATION* (ft)	GROUND-WATER ELEVATION* (ft)
MW-1	04/19/94	14.48	100.56	86.08
MW-2	04/19/94	13.80	99.56	85.76
MW-3	04/19/94	NM	98.33	NM
MW-4	04/19/94	17.15	103.18	86.03
MW-5	04/19/94	14.17	99.87	85.70
MW-6	04/19/94	16.29	100.84	84.55
MW-7	04/19/94	15.83	100.23	84.40
MW-8	04/19/94	17.05	101.47	84.42
MW-9	04/19/94	17.33	102.18	84.85
MW-10	04/19/94	16.73	101.34	84.61
MW-11	04/19/94	16.17	100.60	84.43
MW-12	04/19/94	16.13	100.69	84.58
MW-13	04/19/94	13.90	99.25	85.35
MW-14	04/19/94	13.63	98.74	85.11
MW-15	04/19/94	14.8	100.05	85.25
MW-16	04/19/94	NM	103.37	NM

NOTES:

* = measured from a temporary benchmark of arbitrary elevation = 100.00 feet.
 Benchmark is located on the concrete right up against the east shop wall,
 at the northeast corner of the shop.
 NM = not measured

TABLE 2. RESULTS FROM LABORATORY ANALYSES OF GROUND-WATER SAMPLES, APRIL 1994,
DOWELL SCHLUMBERGER INC. FACILITY, ARTESIA, NEW MEXICO

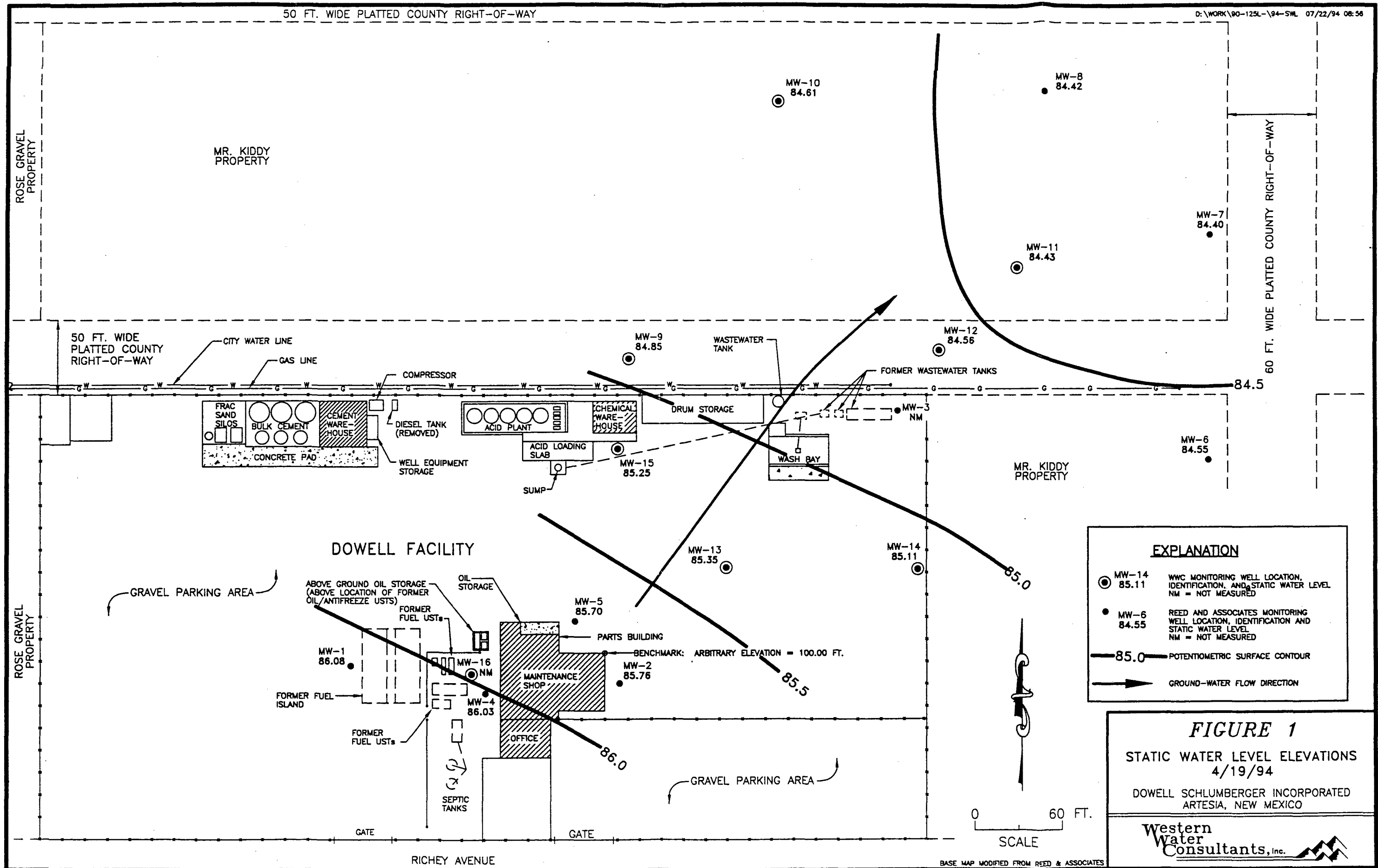
WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	1,1,1- TCA (mg/L)	1,1,2- TCA (mg/L)	TCE (mg/L)	PCE (mg/L)	ACETONE (mg/L)
MW-1	04/19/94	0.035	0.001J	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.1)
MW-2 dup.	04/19/94	0.045	0.004J	ND(0.005)	ND(0.005)	0.028	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.001J	0.048	ND(0.1)
	04/19/94	0.043	0.005J	ND(0.005)	ND(0.005)	0.03	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.001J	0.052	ND(0.1)
MW-3	04/19/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	04/19/94	0.074	0.085	ND(0.005)	0.003J	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.1)
MW-5	04/19/94	0.07	0.011	ND(0.005)	ND(0.005)	0.008	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.002J	0.015	ND(0.1)
MW-6	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	0.07	0.002J	ND(0.005)	ND(0.005)	0.072	ND(0.1)
MW-7	04/19/94	0.007J	ND(0.005)	ND(0.005)	ND(0.005)	0.021	ND(0.005)	0.12	0.003J	ND(0.005)	0.038	0.12	ND(0.1)
MW-8	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.004J	ND(0.005)	0.039	0.004J	ND(0.005)	0.004J	0.007	ND(0.1)
MW-9	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.01	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.1)
MW-10	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.022	0.001J	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.1)
MW-11	04/19/94	0.009	ND(0.005)	0.002J	ND(0.005)	0.042	ND(0.005)	0.17	0.006	ND(0.005)	0.079	0.17	ND(0.1)
MW-12	04/19/94	0.11	0.11	0.049	0.25	0.11	0.002J	0.064	0.065	ND(0.005)	0.073	0.033	ND(0.1)
MW-13	04/19/94	0.013	NA	NA	NA	0.011	0.001J	0.003J	NA	NA	0.003J	0.032	ND(0.1)
MW-14	04/19/94	0.005	ND(0.005)	ND(0.005)	ND(0.005)	0.058	ND(0.005)	0.056	0.001J	ND(0.005)	ND(0.005)	0.16	ND(0.1)
MW-15	04/19/94	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.027	ND(0.005)	0.005J	ND(0.005)	ND(0.005)	0.003J	0.008	ND(0.1)

NOTES:

ND(0.001) = chemical not detected at detection limit shown in parentheses
 dup. = duplicate sample
 NA = not analyzed
 J = chemical present below method detection limit

CHEMICAL ABBREVIATIONS:

TPH = total petroleum hydrocarbons
 1,1-DCA = 1,1-dichloroethane
 1,2-DCA = 1,2-dichloroethane
 1,1-DCE = 1,1-dichloroethene
 1,1,1-TCA = 1,1,1-trichloroethane
 1,1,2-TCA = 1,1,2-trichloroethane
 TCE = trichloroethene
 PCE = tetrachloroethene



LABORATORY ANALYTICAL REPORTS

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: VBA9405031

SAMPLE IDENTIFICATION: Method Blank

DATE SAMPLED: 4/21/94

DATE/TIME ANALYZED: 5/3/94 @ 10:23

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	19
Acetone	67-64-1	100	BDL1
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	BDL
1,1-Dichloroethane	75-34-3	5	BDL
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	BDL
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	BDL
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: VBA9405031
SAMPLE IDENTIFICATION: Method Blank
DATE SAMPLED: 4/21/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2960

SAMPLE IDENTIFICATION: #MW-1

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 13:28

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	BDL
1,1-Dichloroethane	75-34-3	5	BDL
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	BDL
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	35
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2960
SAMPLE IDENTIFICATION: #MW-1
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	1 J
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2961

SAMPLE IDENTIFICATION: #MW-4

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 18:56

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	BDL
1,1-Dichloroethane	75-34-3	5	BDL
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	BDL
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	74
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2961
SAMPLE IDENTIFICATION: #MW-4
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	85
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	3 J
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2962

SAMPLE IDENTIFICATION: #MW-5

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 14:49

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	BDL
1,1-Dichloroethane	75-34-3	5	8
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	2 J
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	70
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	15
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2962
SAMPLE IDENTIFICATION: #MW-5
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	11
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2963

SAMPLE IDENTIFICATION: #MW-2

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 19:36

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	BDL
1,1-Dichloroethane	75-34-3	5	28
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	1 J
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	45
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	48
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2963
SAMPLE IDENTIFICATION: #MW-2
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	4 J
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2964

SAMPLE IDENTIFICATION: #MW-20

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 20:17

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	BDL
1,1-Dichloroethane	75-34-3	5	30
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	1 J
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	43
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	52
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2964
SAMPLE IDENTIFICATION: #MW-20
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	5 J
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2965

SAMPLE IDENTIFICATION: #MW-14

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 15:31

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	56
1,1-Dichloroethane	75-34-3	5	58
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	1 J
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	BDL
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	5
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	160
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2965
SAMPLE IDENTIFICATION: #MW-14
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2966

SAMPLE IDENTIFICATION: #MW-15

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 16:11

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	5 J
1,1-Dichloroethane	75-34-3	5	27
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	3 J
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	BDL
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	8
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2966
SAMPLE IDENTIFICATION: #MW-15
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2967

SAMPLE IDENTIFICATION: #MW-9

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 16:53

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	BDL
1,1-Dichloroethane	75-34-3	5	10
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	BDL
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	BDL
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2967
SAMPLE IDENTIFICATION: #MW-9
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2969

SAMPLE IDENTIFICATION: #MW-12

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 18:14

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	5 J
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	1 J
1,1-Dichloroethene	75-35-4	5	64
1,1-Dichloroethane	75-34-3	5	110
Total-1,2-Dichloroethene	540-59-0	5	2 J
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	65
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	73
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	110
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	33
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	49

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COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2969
SAMPLE IDENTIFICATION: #MW-12
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	110
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	250
Vinyl Chloride	75-01-4	10	2 J

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2968

SAMPLE IDENTIFICATION: #MW-10

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/2/94 @ 17:33

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	22
1,1-Dichloroethane	75-34-3	5	BDL
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	3 J
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	BDL
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	BDL
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

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COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2968
SAMPLE IDENTIFICATION: #MW-10
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2970

SAMPLE IDENTIFICATION: #MW-11

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/3/94 @ 11:04

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	25 B
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	170
1,1-Dichloroethane	75-34-3	5	42
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	6
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	79
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	9
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	170
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	2 J

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2970
SAMPLE IDENTIFICATION: #MW-11
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	2 J
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	1 J

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.
B = Detected in the method blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2971

SAMPLE IDENTIFICATION: #MW-8

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/3/94 @ 11:46

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	28 B
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	39
1,1-Dichloroethane	75-34-3	5	4 J
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	4 J
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	4 J
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	BDL
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	7
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

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COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2971
SAMPLE IDENTIFICATION: #MW-8
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.
B = Detected in the method blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2972

SAMPLE IDENTIFICATION: #MW-7

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/3/94 @ 12:27

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	26 B
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	120
1,1-Dichloroethane	75-34-3	5	21
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	3 J
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	38
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	5 J
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	120
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2972
SAMPLE IDENTIFICATION: #MW-7
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.
B = Detected in the method blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2973

SAMPLE IDENTIFICATION: #MW-6

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/3/94 @ 13:08

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	5 J
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	70
1,1-Dichloroethane	75-34-3	5	13
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	2 J
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	BDL
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	BDL
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	72
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2973
SAMPLE IDENTIFICATION: #MW-6
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2974

SAMPLE IDENTIFICATION: #MW-13

DATE SAMPLED: 4/19/94

DATE/TIME ANALYZED: 5/3/94 @ 13:50

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	5 J B
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	3 J
1,1-Dichloroethane	75-34-3	5	11
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	1 J
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	3
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	13
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	32
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2974
SAMPLE IDENTIFICATION: #MW-13
DATE SAMPLED: 4/19/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: J = Estimated value detected below the reporting limit.
B = Detected in the method blank.

COMPANY NAME: Western Water Consultants

CENREF PROJECT NUMBER: PR940650

CENREF SAMPLE NUMBER: 2975

SAMPLE IDENTIFICATION: Trip Blank

DATE SAMPLED: 4/15/94

DATE/TIME ANALYZED: 5/2/94 @ 14:09

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chloromethane	74-87-3	10	BDL
Bromomethane	74-83-9	10	BDL
Chloroethane	75-00-3	10	BDL
Methylene Chloride	75-09-2	5	BDL
Acetone	67-64-1	100	BDL
Carbon Disulfide	75-15-0	100	BDL
1,1-Dichloroethene	75-35-4	5	BDL
1,1-Dichloroethane	75-34-3	5	BDL
Total-1,2-Dichloroethene	540-59-0	5	BDL
Chloroform	67-66-3	5	BDL
1,2-Dichloroethane	107-06-2	5	BDL
2-Butanone	78-93-3	100	BDL
1,1,1-Trichloroethane	71-55-6	5	BDL
Carbon Tetrachloride	56-23-5	5	BDL
Vinyl Acetate	108-05-4	10	BDL
Bromodichloromethane	75-27-4	5	BDL
1,2-Dichloropropane	78-87-5	5	BDL
2-Chloroethyl-vinyl ether		10	BDL
Cis-1,3-Dichloropropene	10061-01-5	5	BDL
Trichloroethene	79-01-6	5	BDL
Dibromochloromethane	124-48-1	5	BDL
1,1,2-Trichloroethane	79-00-5	5	BDL
Benzene	71-43-2	5	BDL
Trans-1,3-Dichloropropene	10061-02-6	5	BDL
Bromoform	75-25-2	5	BDL
4-Methyl-2-Pentanone	108-10-1	50	BDL
2-Hexanone	591-78-6	50	BDL
Tetrachloroethene	127-18-4	5	BDL
1,1,2,2-Tetrachloroethane	79-34-5	5	BDL
Toluene	108-88-3	5	BDL

Page 2 continued

COMPANY NAME: Western Water Consultants
CENREF PROJECT NUMBER: PR940650
CENREF SAMPLE NUMBER: 2975
SAMPLE IDENTIFICATION: Trip Blank
DATE SAMPLED: 4/15/94

METHOD EPA 8240

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (ug/l)	<u>RESULT</u> (ug/l)
Chlorobenzene	108-90-7	5	BDL
Ethylbenzene	100-41-4	5	BDL
Styrene	100-42-5	5	BDL
Xylenes (Total)	1330-20-7	5	BDL
Vinyl Chloride	75-01-4	10	BDL

BDL = Below Sample Detection Limit
SDL = Sample Detection Limit

COMMENTS: _____

CENREF QC DATA PACKAGE

Client : Western Water Cons
Project: PR940650

**VOLATILE ORGANICS - GC/MS
WATER SURROGATE RECOVERY**

CENREF PROJECT I.D.: PR940650

CLIENT: Western Water

[illegible]

* = VALUES OUTSIDE OF QC LIMITS

COMMENTS:
