

3R - 340

REPORTS

DATE:

2000



Environmental Services
187 County Road 4980
Bloomfield, New Mexico 87413
(505) 632-4409
(505) 632-4405

September 18, 2000

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SEP 28 2000

Mr. William Olson
Hydrologist
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 2000 SAN JUAN BASIN ANNUAL GROUNDWATER REPORT

Dear Mr. Olson:

Enclosed for your review is the 2000 San Juan Basin Annual Groundwater Report prepared by Williams for work conducted by Public Service New Mexico (PNM). The report presents monitoring data for twenty-two sites having petroleum hydrocarbon impacted groundwater, which resulted from the past use of unlined surface impoundments. The reporting period begins in the second quarter of 1999 and ends in the second quarter of 2000. The sites included in the report are listed in Table 1, attached.

The natural gas production and gathering facilities at which the impacted groundwater sites are located were formerly owned and operated by PNM. The facilities became assets of Williams upon purchase of the Gas Company of New Mexico (GCNM) from PNM. PNM had retained certain environmental liabilities associated with the assets including obligations for unlined surface impoundment impacts to soil and groundwater. Subsequent negotiations between PNM and Williams resulted in an agreement whereby Williams would complete further investigations and remediation at sites not previously closed by PNM. The agreement also states that Williams will complete work at sites where PNM has identified soil or groundwater contamination or otherwise initiated remedial actions.

During PNM's tenure, management of sites with hydrocarbon impacted groundwater was directed by their Ground Water Management Plan. This plan specified general procedures for site investigation, remediation, and reporting. The plan called for PNM to prepare an annual report summarizing the results of groundwater monitoring at each site. The report was to be submitted each April 1st and include data collected during the second, third and fourth quarters of the previous year and data from the first quarter of the reporting year.

Anticipating termination of their environmental obligations, PNM requested on March 4, 2000 an extension for submittal of the 2000 annual report so that they could also include data collected during the second quarter of 2000. Although PNM completed collection of monitoring data for the second quarter of 2000, they did not prepare and submit an annual report. Williams has prepared the 2000 annual report in an effort to maintain project continuity and to provide closure to PNM's management of the project.

As with most projects of this magnitude, first hand knowledge is paramount to prepare a thorough summary of site activities. Given the limited firsthand knowledge of project workings, Williams is in the unenviable position of trying to glean information from only the paper record. As such, the 2000 report simply transmits the PNM-collected data to OCD in what we hope is a concise and useable format. Initially, it was Williams' goal to provide more comprehensive reporting on the status of each site, however, preliminary evaluation of the data soon revealed that accurate interpretations could not be formulated in a timely manner.

Williams is continuing to review and evaluate the data provided by PNM to determine the best course for future actions at the sites. Preliminary review has revealed several high priority needs. For the majority of sites, accurate surveys are needed along with development of site base maps and a comprehensive database to facilitate project management. Moreover, sites with free product should be evaluated to determine the efficacy of free-product recovery and whether or not all source contributions are known.

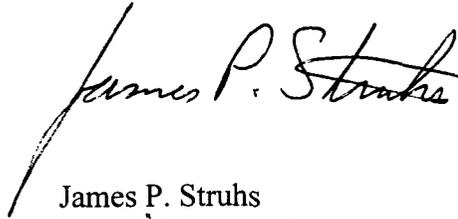
Organization of the report follows the same format used by PNM. Data for each site is contained in a separate tabbed section labeled with the site name. Each section contains a data summary table listing each monitoring well. The absence or presence of free product is indicated on the table and the concentrations of the BTEX compounds for the reporting period are noted. Following the data summary table are the actual laboratory analytical reports. In an effort to make this document more manageable, the laboratory quality control reports have not been included. These reports will of course remain a part of the project file and be made available for review upon request. In addition to the analytical data, a contour map depicting the elevation of the water table as interpolated from water-level data is also included. When possible, hydrographs illustrating the seasonal fluctuations in water-table elevations are presented.

Thank you for your understanding of the Williams position and the time to review this submittal. Mr. Jim Struhs has been assigned the role of Project Hydrogeologist and as such will be involved in many of the day to day project operations. If you have any questions regarding the report, you may call me at (505) 632-4409 or Jim at (505) 632-4457.

Best regards,



Mark B. Harvey
Project Manager
Mark.Harvey@Williams.com



James P. Struhs
Project Hydrogeologist
Jim.Struhs@Williams.com

Attachment
Enclosure

c: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office
Allen Talley, Williams

Table 1. List of Sites for Period Q2/1999 to Q2/2000

Site Name	Section	Township	Range	Unit Letter	OCD Notified	Installed Wells	2nd QTR 1999	3rd QTR 1999	4th QTR 1999	1st QTR 2000	2nd QTR 2000
Albright #4 Drip	22	29N	10W	F	9-Jul-99	28-Jul-99		5-Aug-99	6-Dec-99	5-Mar-00	7-Jun-00
Blanco Wash Drip	31	27N	8W	J	19-Feb-99	6-Apr-99	28-Apr-99	28-Sep-99	6-Dec-99	17-Mar-00	7-Jun-00
Chamberlain 1	14	32N	12W	F	30-Sep-99	13-Sep-99			11-Nov-99	1-Feb-00	2-May-00
Davis 1	11	31N	12W	E	2-Mar-99	2-Aug-99	25-May-99	20-Sep-99	8-Dec-99	14-Mar-00	8-Jun-00
Dogje East Pit	4	25N	6W	D	7-Jul-97	20-May-98	27-Apr-99	21-Sep-99	16-Nov-99	15-Feb-00	11-May-00
Dogje North Pit	4	25N	6W	D	7-Jul-97	6-Jul-97	27-Apr-99	21-Sep-99	16-Nov-99	15-Feb-00	11-May-00
Florence 124	27	29N	9W	C	12-Aug-96	28-Aug-96	7-Apr-99	28-Jul-99	14-Oct-99	1-Feb-00	26-Apr-00
Florence 40	21	30N	8W	G	27-Jan-97	29-Jan-97	21-Apr-99	28-Jul-99	1-Nov-99	21-Mar-00	14-Jun-00
Florence M 47X	5	30N	9W	G	27-Jan-97	6-Feb-97	21-Apr-99	28-Jul-99	3-Nov-99	23-Mar-00	14-Jun-00
Grenier 4A	7	31N	11W	M	18-Oct-99	28-Sep-99			3-Nov-99	7-Mar-00	12-Jun-00
Hampton 4M	13	30N	11W	N	7-Jan-97	31-Jan-97	5-May-99	12-Jul-99	21-Oct-99	27-Jan-00	13-Jun-00
Honolulu Drip	15	26N	4W	B	18-Jun-96	13-Jun-96	14-Apr-99	21-Sep-99	23-Nov-99	9-Feb-00	23-May-00
Ice Canyon Drip	15	26N	6W	B	1-Dec-97	13-May-98	27-Apr-99	20-Sep-99	16-Nov-99	7-Feb-00	18-May-00
Jicarilla Contract 147-6	6	25N	5W	C	13-Aug-98	27-Jan-99	14-Apr-99	27-Sep-99	15-Nov-99	20-Mar-00	7-Jun-00
Kaufman 1	33	31N	13W	H	9-Mar-00					9-Mar-00	22-May-00
Miles Federal 1E Drip	5	26N	7W	N	23-Jun-97	7-Jul-97	1-Jun-99	3-Aug-99	23-Nov-99	7-Feb-00	18-May-00
O' Shea 1M	3	31N	13W	F	6-Jun-98	9-Jul-98	24-May-99	6-Aug-99	12-Nov-99	3-Feb-00	9-May-00
Patterson A Corn A1	2	31N	12W	G	2-Mar-99	15-Mar-99	2-Jun-99	6-Aug-99	22-Nov-99	15-Mar-00	8-Jun-00
Pritchard 2	6	30N	8W	J	22-Feb-99	1-Apr-99	26-May-99	17-Aug-99	20-Oct-99	26-Jan-00	17-Apr-00
Randleman 1	13	31N	11W	K	9-May-97	14-May-97	19-Apr-99	17-Aug-99	27-Oct-99	25-Jan-00	10-Apr-00
Wilmerding 1M	10	31N	13W	C	5-Jun-98	1-Jul-98	1-Jun-99	10-Aug-99	12-Oct-99	1-Feb-00	1-May-00
Zachry 18E	11	28N	10W	O	6-Sep-96	19-Nov-96	20-Apr-99	2-Aug-99	1-Nov-99	31-Jan-00	26-Apr-00



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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Annual
Groundwater
Report
2000

San Juan Basin, New Mexico
Lined Surface Impoundments

Site Summary Report

Site Name: Randleman 1

Reporting Period: 2nd Qtr 1999 - 2nd Qtr 2000

Location: Unit K, Sec 13, Twn 31N, Rng 11W

Canyon: Animas

Operator: Burlington

Vulnerable Class: original

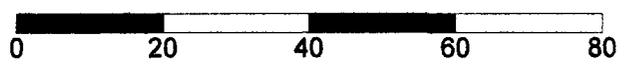
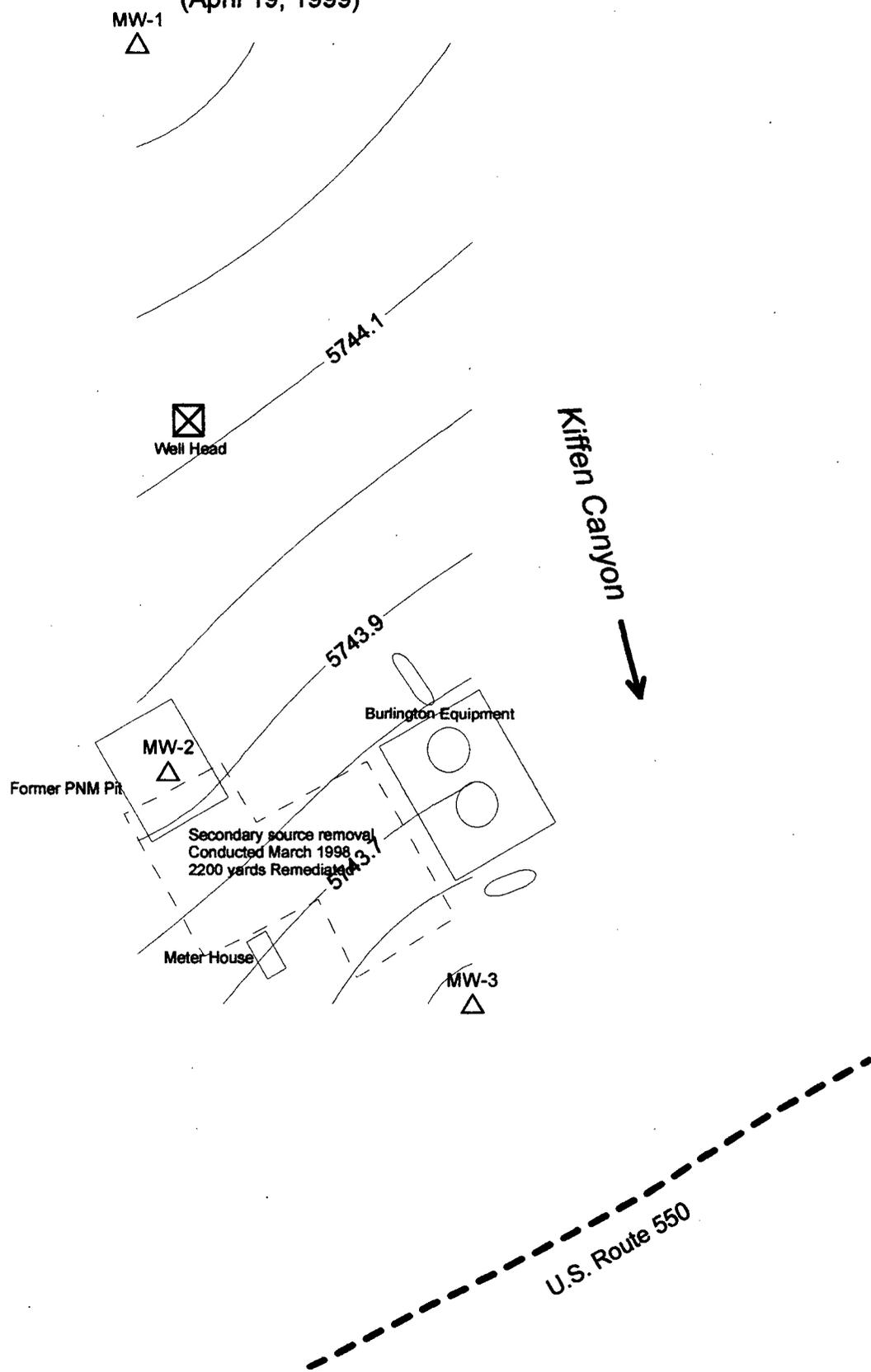
OCD Ranking: 40

Lead Agency: NMOCD

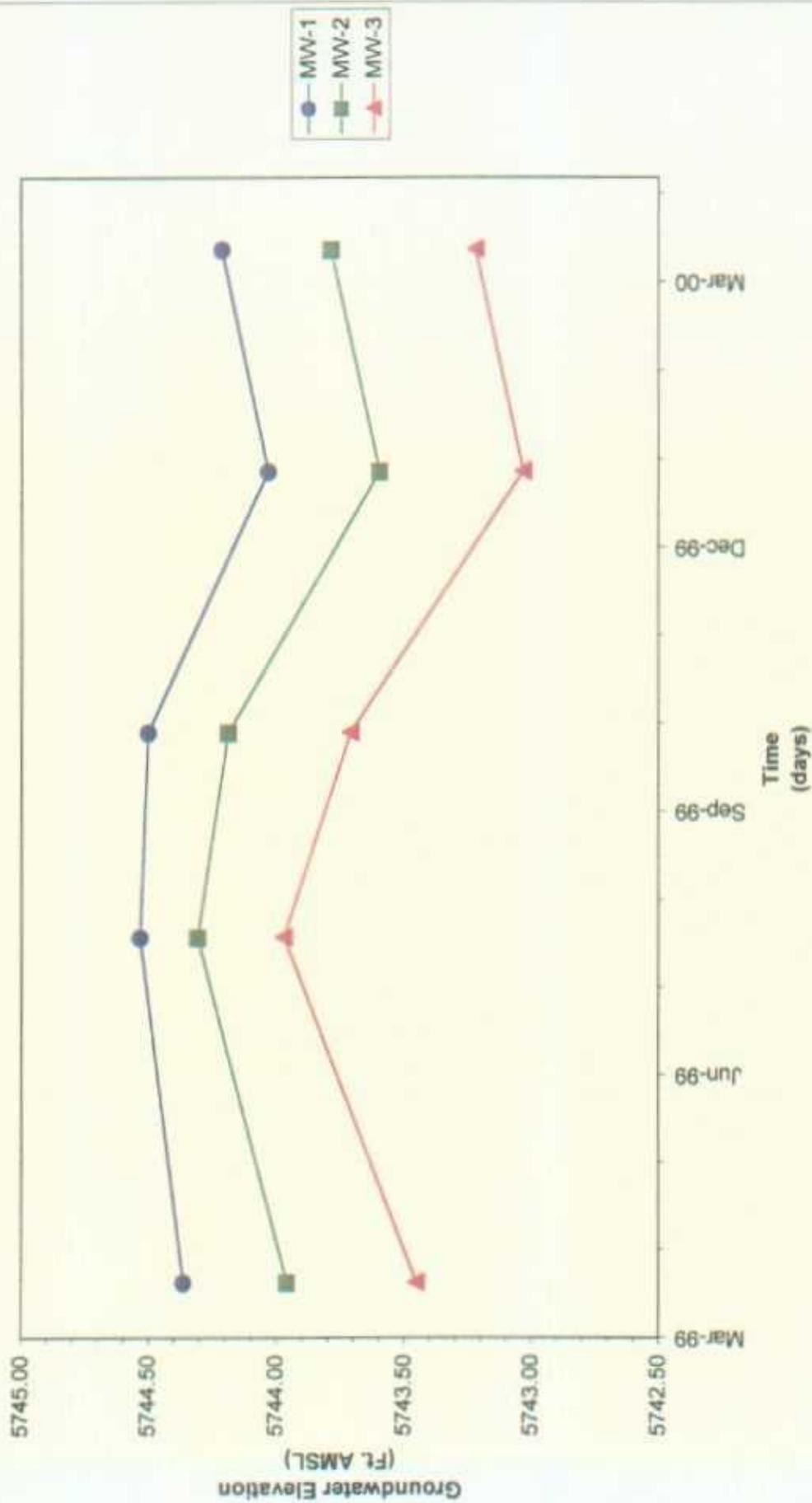
Status Narrative

This site has three monitoring wells, with thirteen quarters of ground water monitoring completed to date. Currently, contaminant levels in all monitoring wells are below WQCC standards. Burlington continues management of their on-site landfarm, and reported plans call for the installation of an additional monitoring well downgradient of Burlington's pit excavation.

Randleman 1
Potentiometric Surface Map
(April 19, 1999)



Randleman 1
 Hydrograph for Period Q2/1999 - Q2/2000
 (Elevation vs. Time)



Randleman 1
Summary of Groundwater Analytical Data
(Q2/1999 - Q2/2000)

Well ID	Sample ID	Sample Date	Analytes (values in ug/L)			
			benzene	toluene	ethylbenzene	total xylenes
MW-1	NS	19-Apr-99				
	9908171500	17-Aug-99	ND	ND	ND	ND
	NS	27-Oct-99				
	NS	25-Jan-00				
	NS	10-Apr-00				
MW-2	9904191340	19-Apr-99	2.3	ND	ND	ND
	9908171544	17-Aug-99	17.0	ND	5.7	15.6
	9910271235	27-Oct-99	5.0	0.6	0.9	1.5
	0001251400	25-Jan-00	4.1	8.0	1.9	15.8
	Duplicate	25-Jan-00	2.2	4.9	1.1	10.4
	0004101333	10-Apr-00	5.0	ND	3.1	10.3
MW-3 (new)	9904191406	19-Apr-99	ND	ND	ND	ND
	Duplicate	19-Apr-99	ND	ND	ND	ND
	9908171600	17-Aug-99	260.0	ND	26.0	65.0
	9910271305	27-Oct-99	0.5	ND	ND	ND
	0001251425	25-Jan-00	ND	ND	ND	ND
	0004101353	10-Apr-00	ND	ND	ND	ND

ND = analyte not detected above method detection limit

NS = well not sampled

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ANALYTICAL REPORT

Date: 28-Apr-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman 1
Work Order:	9904038	Client Sample ID:	9904191340; MW 2
Lab ID:	9904038-01A	Matrix:	AQUEOUS
Project:	Randleman 1	Collection Date:	4/19/99 1:40:00 PM
		COC Record:	7038

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	2.3	0.5		µg/L	1	4/23/99
Toluene	ND	0.5		µg/L	1	4/23/99
Ethylbenzene	ND	0.5		µg/L	1	4/23/99
m,p-Xylene	ND	1		µg/L	1	4/23/99
o-Xylene	ND	0.5		µg/L	1	4/23/99

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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ANALYTICAL REPORT

Date: 28-Apr-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman 1
Work Order:	9904038	Client Sample ID:	9904191406; MW 3
Lab ID:	9904038-02A	Matrix:	AQUEOUS
Project:	Randleman 1	Collection Date:	4/19/99 2:06:00 PM
		COC Record:	7038

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: HR
Benzene	ND	0.5		µg/L	1	4/23/99
Toluene	ND	0.5		µg/L	1	4/23/99
Ethylbenzene	ND	0.5		µg/L	1	4/23/99
m,p-Xylene	ND	1		µg/L	1	4/23/99
o-Xylene	ND	0.5		µg/L	1	4/23/99

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr - Surrogate

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ANALYTICAL REPORT

Date: 25-Aug-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman 1
Work Order:	9908045	Client Sample ID:	9908171500; MW-1
Lab ID:	9908045-01B	Matrix:	AQUEOUS
Project:	Randleman 1	Collection Date:	08/17/1999 3:00:00 PM
		COC Record:	7790

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	08/19/1999
Toluene	ND	0.5		µg/L	1	08/19/1999
Ethylbenzene	ND	0.5		µg/L	1	08/19/1999
m,p-Xylene	ND	1		µg/L	1	08/19/1999
o-Xylene	ND	0.5		µg/L	1	08/19/1999

Qualifiers:

- | | |
|---|---|
| PQL - Practical Quantitation Limit | S - Spike Recovery outside accepted recovery limits |
| ND - Not Detected at Practical Quantitation Limit | R - RPD outside accepted recovery limits |
| J - Analyte detected below Practical Quantitation Limit | E - Value above quantitation range |
| B - Analyte detected in the associated Method Blank | Surr: - Surrogate |

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ANALYTICAL REPORT

Date: 25-Aug-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman 1
Work Order:	9908045	Client Sample ID:	9908171544; MW-2
Lab ID:	9908045-02B	Matrix:	AQUEOUS
Project:	Randleman 1	Collection Date:	08/17/1999 3:44:00 PM
		COC Record:	7790

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	17	0.5		µg/L	1	08/19/1999
Toluene	ND	0.5		µg/L	1	08/19/1999
Ethylbenzene	5.7	0.5		µg/L	1	08/19/1999
m,p-Xylene	15	1		µg/L	1	08/19/1999
o-Xylene	0.6	0.5		µg/L	1	08/19/1999

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

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ANALYTICAL REPORT

Date: 25-Aug-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman 1
Work Order:	9908045	Client Sample ID:	9908171600; MW-3
Lab ID:	9908045-03B	Matrix:	AQUEOUS
Project:	Randleman 1	Collection Date:	08/17/1999 4:00:00 PM
		COC Record:	7790

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	260	2.5		µg/L	5	08/20/1999
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Toluene	ND	0.5		µg/L	1	08/19/1999
Ethylbenzene	26	0.5		µg/L	1	08/19/1999
m,p-Xylene	60	1		µg/L	1	08/19/1999
o-Xylene	5	0.5		µg/L	1	08/19/1999

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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ANALYTICAL REPORT

Date: 01-Nov-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman #1
Work Order:	9910042	Client Sample ID:	9910271235; MW-2
Lab ID:	9910042-01A	Matrix:	AQUEOUS
Project:	Randleman #1	Collection Date:	10/27/99 12:35:00 PM
		COC Record:	7829

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	5	0.5		µg/L	1	10/29/99
Toluene	0.6	0.5		µg/L	1	10/29/99
Ethylbenzene	0.9	0.5		µg/L	1	10/29/99
m,p-Xylene	1.5	1		µg/L	1	10/29/99
o-Xylene	ND	0.5		µg/L	1	10/29/99

Qualifiers:

PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
B - Analyte detected in the associated Method Blank	Sur: - Surrogate

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ANALYTICAL REPORT

Date: 01-Nov-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman #1
Work Order:	9910042	Client Sample ID:	9910271305; MW-3
Lab ID:	9910042-02A	Matrix:	AQUEOUS
Project:	Randleman #1	Collection Date:	10/27/99 1:05:00 PM
		COC Record:	7829

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	0.5	0.5		µg/L	1	10/29/99
Toluene	ND	0.5		µg/L	1	10/29/99
Ethylbenzene	ND	0.5		µg/L	1	10/29/99
m,p-Xylene	ND	1		µg/L	1	10/29/99
o-Xylene	ND	0.5		µg/L	1	10/29/99

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

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ANALYTICAL REPORT

Date: 09-Feb-00

Client: PNM - Public Service Company of NM	Client Sample Info: Randleman 1
Work Order: 0001028	Client Sample ID: 0001251400; MW-2
Lab ID: 0001028-02A Matrix: AQUEOUS	Collection Date: 1/25/2000 2:00:00 PM
Project: Randleman 1	COC Record: 7798

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	4.1	0.5		µg/L	1	1/28/2000
Toluene	8	0.5		µg/L	1	1/28/2000
Ethylbenzene	1.9	0.5		µg/L	1	1/28/2000
m,p-Xylene	13	1		µg/L	1	1/28/2000
o-Xylene	2.8	0.5		µg/L	1	1/28/2000
CHLORIDE		E325.3				Analyst: HR
Chloride	600	1		mg/L	1	1/26/2000
SULFATE		M4500-SO4 D				Analyst: HR
Sulfate	2800	8		mg/L	1	1/26/2000
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: DM
Total Dissolved Solids (Residue, Filterable)	5500	40		mg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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ANALYTICAL REPORT

Date: 09-Feb-00

Client: PNM - Public Service Company of NM	Client Sample Info: Randleman 1
Work Order: 0001028	Client Sample ID: 0001251425; MW-3
Lab ID: 0001028-03A Matrix: AQUEOUS	Collection Date: 1/25/2000 2:25:00 PM
Project: Randleman 1	COC Record: 7798

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	ND	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	ND	0.5		µg/L	1	1/27/2000
m,p-Xylene	ND	1		µg/L	1	1/27/2000
o-Xylene	ND	0.5		µg/L	1	1/27/2000
CHLORIDE		E325.3				Analyst: HR
Chloride	150	1		mg/L	1	1/26/2000
SULFATE		M4500-SO4 D				Analyst: HR
Sulfate	2100	8		mg/L	1	1/26/2000
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: DM
Total Dissolved Solids (Residue, Filterable)	3750	40		mg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
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OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 19-Apr-00

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman 1
Work Order:	0004032	Client Sample ID:	0004101333; MW-2
Lab ID:	0004032-01A	Matrix:	AQUEOUS
Project:	Randleman 1	Collection Date:	4/10/2000 1:33:00 PM
		COC Record:	8515

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DM	
Benzene	5	0.5		µg/L	1	4/17/2000
Toluene	ND	0.5		µg/L	1	4/17/2000
Ethylbenzene	3.1	0.5		µg/L	1	4/17/2000
m,p-Xylene	9.1	1		µg/L	1	4/17/2000
o-Xylene	1.2	0.5		µg/L	1	4/17/2000

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

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LAB: (505) 325-1556
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ANALYTICAL REPORT

Date: 19-Apr-00

Client:	PNM - Public Service Company of NM	Client Sample Info:	Randleman 1
Work Order:	0004032	Client Sample ID:	0004101353; MW-3
Lab ID:	0004032-02A	Matrix:	AQUEOUS
Project:	Randleman 1	Collection Date:	4/10/2000 1:53:00 PM
		COC Record:	8515

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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Parameter	Result	PQL	Qual	Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM	
Benzene	ND	0.5		µg/L	1	4/17/2000	
Toluene	ND	0.5		µg/L	1	4/17/2000	
Ethylbenzene	ND	0.5		µg/L	1	4/17/2000	
m,p-Xylene	ND	1		µg/L	1	4/17/2000	
o-Xylene	ND	0.5		µg/L	1	4/17/2000	

Qualifiers:

PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
B - Analyte detected in the associated Method Blank	Sur: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -