# 3R - 3/2

# REPORTS

DATE:



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

September 18, 2000

# RECEIVED

SEP 2 8 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 1<sup>st</sup> 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,

MIB.2

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	W8	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
Dogie 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
Dogie 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
Florance 124	27	29N	9W	С	12-Aug-96	28-Aug-96	7-Apr-99	28-Jul-99	14-Oct-99	1-Feb-00	26-Apr-00
Florance 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
Florance 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	В	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	В	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	С	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	Н	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 Com 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	С	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	0	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

# Annual Groundwater Report 2000

San Juan Basin, New Mexico lined Surface Impoundments

# **Site Summary Report**

Reporting Period: 2<sup>nd</sup> Qtr 1999 - 2<sup>nd</sup> Qtr 2000 Site Name: Dogie East Pit

Location: Unit D, Sec 4, Twn 25N, Rng 6W

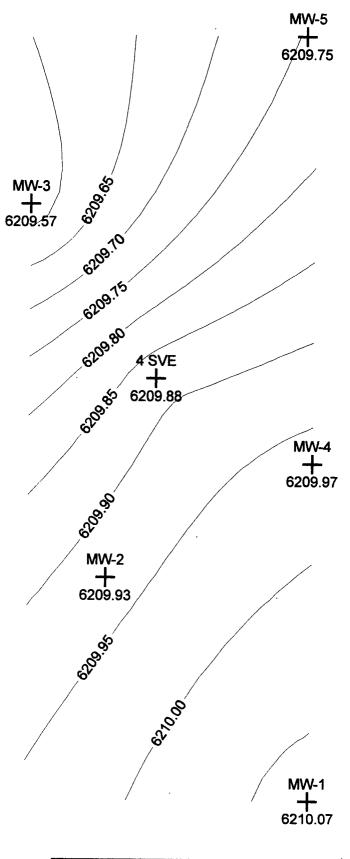
Vulnerable Class: original Canyon: Largo OCD Ranking: 40 Operator: Williams Lead Agency: NMOCD

### **Status Narrative**

This site has eight monitoring wells installed, with nine quarters of ground water monitoring completed to date. Contaminant levels remain above WQCC standards at the northeastern edge of the plume. This plume may be continuous to the southern edge of the Dogie North Pit.

# Dogie East Pit Potentiometric Surface Map (April 27, 1999)

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Oft

10ft

20ft

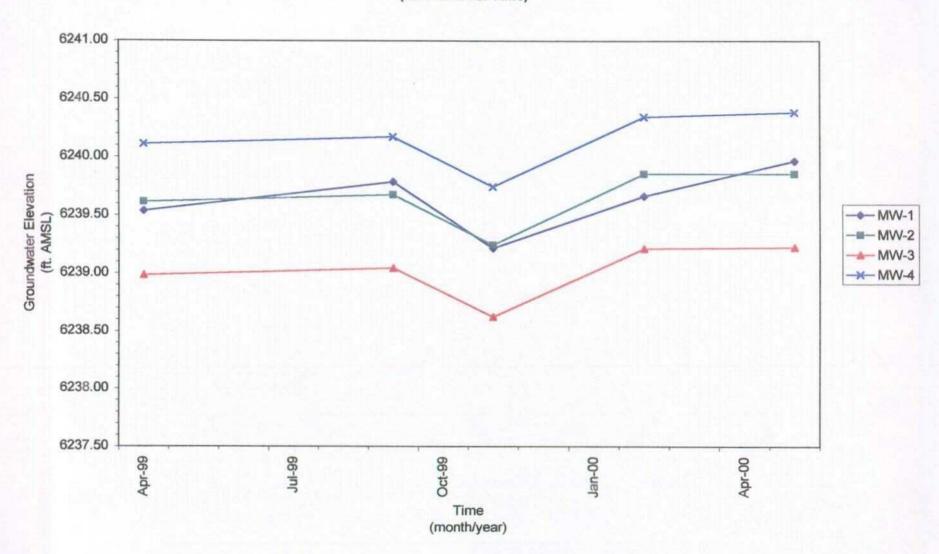
30ft

40ft

50ft

Ŵ

Dogie East Pit Hydrograph for Period Q2/1999 - Q2/2000 (Elevation vs. Time)



# **Dogie East Pit Summary of Groundwater Analytical Data** (Q2/1999 - Q2/2000)

			Free	Product	Ana	Analytes (values in ug/L)					
Well ID	Sample ID	Sample Date	Present Yes/No	Thickness (ft.)	benzene	toluene	ethylbenzene	total xylenes			
	9904271210	27-Apr-99	N		3	<0.5	2	3			
	9909210920	21-Sep-99	N		9	1	2	3 2 7			
MW-2	9911161225	16-Nov-99	N		32	1	3				
	0002151138	15-Feb-00	N		57	1	16				
	0005101009	10-May-00	N		ND	ND	1	ND			
	9904271230	27-Apr-99	N		220	1300	520	4140			
	9909210945	21-Sep-99	N		110	920	470	2930			
MW-3	9911161145	16-Nov-99	N		180	1600	440	2520			
	0002151155	15-Feb-00	N		120	1900	640	5120			
	0005101023	10-May-00	N		140	1500	370	3650			
	9904271305	27-Apr-99	N		5100	6200	130	1600			
	9909211010	21-Sep-99	N		3200	3800	130	1340			
MW-4	9911161205	16-Nov-99	N		3200	1100	<10	520			
	0002151213	15-Feb-00	N		230	540	26	314			
	0005101034	10-May-00	N		4300	2300	130	1270			
	9904271250	27-Apr-99	N		<10	1000	130	1150			
	9909211035	21-Sep-99	N		3.2	450	97	780			
MW-5	9911161100	16-Nov-99	N		5.3	1200	170	1520			
	0002151232	15-Feb-00	N		<5	280	56				
	0005101045	10-May-00	N	-	5.8	1400	220	1860			
	NS	27-Apr-99	N								
	9909211100	21-Sep-99	N		690	330	240	1930			
MW-6	9911161125	16-Nov-99	N		370	48	130	694			
	0002151253	15-Feb-00	N		9.9	0.6	5.7	22.7			
	0005101058	10-May-00	N		390	2.6	25	400			
	NS	27-Apr-99	N								
	9909211130	21-Sep-99	N		280	1200	78	700			
MW-7	9911160955	16-Nov-99	N		270	380	37	261			
	0002151313	15-Feb-00	N		64	18	10	24.4			
	0005101115	10-May-00	N		95	26	12	50.4			
	NS	27-Apr-99	N								
	9909211150	21-Sep-99	N		0.5	1	0.8	<1.5			
MW-8	9911161040	16-Nov-99	N		<0.5	0.6					
	0002151345	15-Feb-00	N		0.6	1.4		<1.5			
	0005101135	10-May-00	N		ND	0.6					

ND = analyte not detected above method detection limit NS = well not sampled for specified analytes



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 07-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9904069

Lab ID:

9904069-01A

Matrix: AQUEOUS

Project: Dogie East

Client Sample Info: Dogie East

Client Sample ID: 9904271210; MW-2

Collection Date: 4/27/99 12:10:00 PM

COC Record: 7381

Parameter		Result	PQL	Qual Un	its	DF	Date Analyzed
AROMATIC VOLAT	ILES BY GC/PID	sv	V8021B		,		Analyst: DC
Benzene		2.9	0.5	μg	<b>]/L</b> .	1	5/5/99
Toluene	•	ND	0.5	μg	g/L	1	5/5/99
Ethylbenzene	<i>?</i>	2.1	0.5	μς	J/L	1	5/5/99
m,p-Xylene	,	3	. 1	μς	3/L	1	5/5/99
o-Xylene		ND	0.5	μς	g/L ·	1	5/5/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 07-May-99

Client:

**Project:** 

PNM - Public Service Company of NM

Work Order:

9904069

Lab ID:

9904069-02A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 9904271230; MW-3

Collection Date: 4/27/99 12:30:00 PM

COC Record: 7381

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B	- ···		Analyst: DC
Benzene	220	5	µg/L	10	5/3/99
Toluene	1300	5	μg/L	10	5/3/99
Ethylbenzene	520	5	μg/L	10	5/3/99
m,p-Xylene	3800	10	μg/L	10	5/3/99
o-Xylene	340	5	μg/L	10	5/3/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

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TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 07-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9904069

Lab ID:

9904069-04A

A Matrix: AQUEOUS

Project:

Dogie East

Client Sample Info: Dogie East

Client Sample ID: 9904271305; MW-4

Collection Date: 4/27/99 1:05:00 PM

COC Record: 7381

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DC
Benzene	5100	25	μg/L	50	5/5/99
Toluene	6200	25	μg/L	50	5/5/99
Ethylbenzene	130	25	μg/L	50	5/5/99
m,p-Xylene	1300	50	· μg/L	50	5/5/99
o-Xylene	300	25	μg/L	50	5/5/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I

OFF: (505) 325-5667 **TECHNOLOGIES, LTD** 

LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 07-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9904069

Lab ID:

**Project:** 

9904069-03A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 9904271250; MW-5

Collection Date: 4/27/99 12:50:00 PM

COC Record: 7381

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	sv	V8021B		Analyst: DC	
Benzene	ND	10	μg/L	20	5/5/99
Toluene	1000	10	μg/L	20	5/5/99
Ethylbenzene	130	10	µg/L	20	5/5/99
m,p-Xylene	980	20	μg/L	20	5/5/99
o-Xylene	170	10	μg/L	20	5/5/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 12-Oct-99

Client:

PNM - Public Service Company of NM

Work Order:

9909066

Lab ID:

9909066-01A

Matrix: AQUEOUS

Project:

**Dogie East Compressor Station** 

Client Sample Info: Dogie East Compressor Station

Client Sample ID: 9909210920; MW-2

Collection Date: 09/21/1999 9:20:00 AM

COC Record: 7543

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SV	V8021B		·	Analyst: DM	
Benzene	8.5	0.5	μ <b>g/L</b>	1	09/29/1999	
Toluene	0.8	0.5	μ <b>g/L</b>	1	09/29/1999	
Ethylbenzene	2.2	0.5	μg/L	1	09/29/1999	
m,p-Xylene	1.9	1	μg/L	1	09/29/1999	
o-Xylene	ND	0.5	μg/L	1	09/29/1999	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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### ANALYTICAL REPORT

Date: 12-Oct-99

Client:

PNM - Public Service Company of NM

Work Order:

9909066

Lab ID:

9909066-02A

Matrix: AQUEOUS

Project:

**Dogie East Compressor Station** 

Client Sample Info: Dogie East Compressor Station

Client Sample ID: 9909210945; MW-3

Collection Date: 09/21/1999 9:45:00 AM

COC Record: 7543

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM	
Benzene	110	10	μg/L	20	09/29/1999	
Toluene 3.	920	10	μg/L	20	09/29/1999	
Ethylbenzene	470	10 -	μg/L	20	09/29/1999	
m,p-Xylene	2500	100	μg/L	100	09/27/1999	
o-Xylene	430	50	μg/L	100	09/27/1999	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I

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LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 12-Oct-99

Client:

PNM - Public Service Company of NM

Work Order:

9909066

Lab ID:

9909066-03A

Matrix: AQUEOUS

**Project:** 

**Dogie East Compressor Station** 

Client Sample Info: Dogie East Compressor Station

Client Sample ID: 9909211010; MW-4

Collection Date: 09/21/1999 10:10:00 AM

COC Record: 7543

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SI	V8021B			Analyst: DM	
Benzene	3200	10	μg/L	20	09/29/1999	
Toluene	3800	10	μg/L	20	09/29/1999	
Ethylbenzene	130	10	µg/∟	20	09/29/1999	
m,p-Xylene	1100	20	μg/L	20	09/29/1999	
o-Xylene	240	10	μg/L	20	09/29/1999	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I

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### ANALYTICAL REPORT

Date: 12-Oct-99

Client:

PNM - Public Service Company of NM

Work Order:

9909066

Lab ID:

9909066-04A

Matrix: AQUEOUS

**Project:** 

**Dogie East Compressor Station** 

Client Sample Info: Dogie East Compressor Station

Client Sample ID: 9909211035; MW-5

Collection Date: 09/21/1999 10:35:00 AM

COC Record: 7543

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM	
Benzene	3.2	2.5	μ <b>ց/</b> ∟	5	09/29/1999	
Toluene	450	2.5	μ <b>g/</b> L	5	09/29/1999	
Ethylbenzene	97	2.5	μg/L	5	09/29/1999	
m,p-Xylene	670	5	μg/L	5	09/29/1999	
o-Xylene	110	2.5	μg/L	5	09/29/1999	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

Surr: - Surrogate



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 12-Oct-99

Client:

PNM - Public Service Company of NM

Work Order:

9909066

Lab ID:

9909066-05A

Matrix: AQUEOUS

**Project:** 

**Dogie East Compressor Station** 

Client Sample Info: Dogie East Compressor Station

Client Sample ID: 9909211100; MW-6

Collection Date: 09/21/1999 11:00:00 AM

COC Record: 7543

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM	
Benzene	690	2.5	μg/L	5	09/27/1999	
Toluene	330	2.5	μg/L	5	09/27/1999	
Ethylbenzene	240	2.5	μg/L	5	09/27/1999	
m,p-Xylene	1600	5	μg/L	5	09/27/1999	
o-Xylene	330	2.5	µg/L	5	09/27/1999	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 12-Oct-99

Client:

PNM - Public Service Company of NM

Work Order:

9909066

Lab ID:

9909066-06A

Matrix: AQUEOUS

Project:

**Dogie East Compressor Station** 

Client Sample Info: Dogie East Compressor Station

Client Sample ID: 9909211130; MW-7

Collection Date: 09/21/1999 11:30:00 AM

COC Record: 7543

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SI	W8021B			Analyst: DM	
Benzene	280	25	μg/L	50	09/30/1999	
Toluene	1200	25	μg/L	50	09/30/1999	
Ethylbenzene	78	25	μg/L	50	09/30/1999	
m,p-Xylene	580	50	μg/L	50	09/30/1999	
o-Xylene	120	25	μg/L	50	09/30/1999	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I

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LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 12-Oct-99

Client:

PNM - Public Service Company of NM

Work Order:

9909066

Lab ID:

9909066-07A

Matrix: AQUEOUS

Project:

**Dogie East Compressor Station** 

Client Sample Info: Dogie East Compressor Station

Client Sample ID: 9909211150; MW-8

Collection Date: 09/21/1999 11:50:00 AM

COC Record: 7543

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	sv	V8021B			Analyst:	DM
Benzene	0.5	0.5	μg/L	1	09/29/1999	٠
Toluene	1	0.5	μg/L	1	09/29/1999	
Ethylbenzene	8.0	0.5	μg/L	1	09/29/1999	
m,p-Xylene	ND	1	μg/L	1	09/29/1999	
o-Xylene	ND	0.5	μg/L	1	09/29/1999	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 23-Nov-99

Client:

**Project:** 

PNM - Public Service Company of NM

Matrix: AQUEOUS

Work Order:

9911029

Lab ID: 9911029-07A

Dogie East

Client Sample Info: Dogie East

Client Sample ID: 9911161225; MW-2

Collection Date: 11/16/99 12:25:00 PM

COC Record: 7860

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SI	W8021B			Analyst: <b>DM</b>
Benzene	32	0.5	μg/L	1	11/19/99
Toluene	0.8	0.5	μg/L	1	11/19/99
Ethylbenzene	3.4	0.5	μg/L	1	11/19/99
m,p-Xylene	7	1	μg/L	1	11/19/99
o-Xylene	ND	0.5	μg/L	1	11/19/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 23-Nov-99

Client:

PNM - Public Service Company of NM

Work Order:

9911029

Lab ID: Project:

9911029-05A Dogie East Matrix: AQUEOUS

Client Sample Info: Dogic East

Client Sample ID: 9911161145; MW-3

Collection Date: 11/16/99 11:45:00 AM

COC Record: 7860

Parameter	Result	PQL	Qual Umits	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM
Benzene	180	10	μg/L	20	11/18/99
Toluene	1600	10	μ <b>g/</b> L	20	11/18/99
Ethylbenzene	440	10	μ <b>g</b> /L	20	11/18/99
m,p-Xylene	2300	. 20	<b>ի</b> Ձ/∟	20	11/18/99
o-Xylene	320	·10	μg/L	20	11/18/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 23-Nov-99

Client:

PNM - Public Service Company of NM

Work Order:

9911029

Lab ID: Project:

9911029-06A

Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 9911161205; MW-4

**Collection Date:** 11/16/99 12:05:00 PM

COC Record: 7860

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SI	V8021B	.*		Analyst: DM
Benzene	3200	10	μg/L	20	11/18/99
Toluene	1100	10	μg/L	20	11/18/99
Ethylbenzene	ND	10	μg/L	20	11/18/99
m,p-Xylene	420	20	μg/L	20	11/18/99
o-Xylene	100	10	μg/L	20	11/18/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 23-Nov-99

Client:

Project:

PNM - Public Service Company of NM

Work Order:

9911029

Dogie East

Lab ID: 9911029-03A

Matrix: AQUEOUS

Collection Date: 11/16/99 11:00:00 AM

Client Sample ID: 9911161100; MW-5

COC Record: 7860

Client Sample Info: Dogie East

Parameter	Result	PQL	Qual Un	its	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	sv	V8021B		-	· .	Analyst: DM
Benzene	5.3	2.5	μg	/L	5	11/18/99
Toluene	1200	5	μg	ı/L	10	11/19/99
Ethylbenzene	170	2.5	μg	1/L	5	11/18/99
m,p-Xylene	1300	. 5	μg	/L	5	11/18/99
o-Xylene	220	2.5	μς	ı/L	5	11/18/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Suit: - Surrogate

I of I



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 23-Nov-99

Client:

Lab ID:

**Project:** 

PNM - Public Service Company of NM

Work Order:

9911029

9911029-04A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 9911161125; MW-6

Collection Date: 11/16/99 11:25:00 AM

COC Record: 7860

Parameter	Result	PQL	Qual U	nits	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SI	N8021B		,		Analyst: <b>DM</b>
Benzene	370	10	μ	g/L	20	11/18/99
Toluene	48	10	μ	g/L	20	11/18/99
Ethylbenzene	130	10	μ	g/L	20	11/18/99
m,p-Xylene	620	20	μ	g/L	20	11/18/99
o-Xylene	74	10	μ	g/L	20	11/18/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



LAB: (505) 325-1556

### **ANALYTICAL REPORT**

Date: 23-Nov-99

Client:

PNM - Public Service Company of NM

Work Order:

9911029

9911029-01A

Matrix: AQUEOUS

Lab ID: Project:

Dogie East

Client Sample Info: Dogie East

Client Sample ID: 9911160955; MW-7

Collection Date: 11/16/99 9:55:00 AM

COC Record: 7860

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM
Benzene	270	10	μg/L	20	11/18/99
Toluene	380	10	μg/L	20	11/18/99
Ethylbenzene	37	10	µg/L	20	11/18/99
m,p-Xylene	230	. 20	μg/L	20	11/18/99
o-Xylene	31	. 10	μg/L	20	11/18/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Suit: - Surrogate

ON SITE
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 23-Nov-99

Client:

PNM - Public Service Company of NM

Work Örder:

9911029

Lab ID: Project: 9911029-02A

Matrix: AQUEOUS

Dogie East

Client Sample Info: Dogie East

Client Sample ID: 9911161040; MW-8

Collection Date: 11/16/99 10:40:00 AM

COC Record: 7860

			•		
Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	· SI	W8021B		1	Analyst: <b>DM</b>
Benzene	ND	0.5	μg/L	1	11/18/99
Toluene	0.6	0.5	µg/L	1	11/18/99
Ethylbenzene	0.5	0.5	µg/L	1	11/18/99
m,p-Xylene	ND	1	μg/L	1	11/18/99
o-Xylene	ND	0.5	μg/L	1	11/18/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 01-Mar-00

Client:

**Project:** 

PNM - Public Service Company of NM

Work Order:

0002039

Lab ID:

0002039-01A Dogie East Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 0002151138; MW-2

**Collection Date: 2/15/2000 11:38:00 AM** 

COC Record: 7875

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DC
Benzene	57	0.5	μg/L .	1	2/23/2000
Toluene	1.2	0.5	μg/L	1	2/23/2000
Ethylbenzene	16	0.5	μg/L	1	2/23/2000
m,p-Xylene	1.9	1	μg/L	1	2/23/2000
o-Xylene	0.7	0.5	μg/L	. 1	2/23/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I



LAB: (505) 325-1556

Date: 01-Mar-00

### ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

0002039

Lab ID: **Project:**  0002039-02A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 0002151155; MW-3

Collection Date: 2/15/2000 11:55:00 AM

COC Record: 7875

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM
Benzene	120	10	μg/L	20	2/28/2000
Toluene	1900	10	μg/L	20	2/28/2000
Ethylbenzene	640	10	μg/L	20	2/28/2000
m,p-Xylene	4500	20	µg/L	20	2/28/2000
o-Xylene	620	10	μg/L	20	2/28/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



LAB: (505) 325-1556

### ANALYTICAL REPORT

**Date:** 01-Mar-00

Client:

Project:

PNM - Public Service Company of NM

Work Order:

0002039

Lab ID:

0002039-03A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 0002151213; MW-4

Collection Date: 2/15/2000 12:13:00 PM

COC Record: 7875

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM
Benzene	230	2.5	μg/L	5	2/28/2000
Toluene	540	2.5	μg/L	5	2/28/2000
Ethylbenzene	26	2.5	μg/L	5	2/28/2000
m,p-Xylene	260	5	μg/L	5	2/28/2000
o-Xylene	54	2.5	µg/L	5	2/28/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 01-Mar-00

Client:

PNM - Public Service Company of NM

Work Order:

0002039

Lab ID:

0002039-04A

Matrix: AQUEOUS

Project:

**Dogie East** 

Client Sample Info: Dogie East

Client Sample ID: 0002151232; MW-5

Collection Date: 2/15/2000 12:32:00 PM

COC Record: 7875

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DC
Benzene	ND	5	μg/L	10	2/23/2000
Toluene	280	5	μg/L	10	2/23/2000
Ethylbenzene	56	5	μg/L	10	2/23/2000
m,p-Xylene	400	10	μg/L	10	2/23/2000
o-Xylene	62	5	μg/L	10	2/23/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

### ANALYTICAL REPORT

**Date:** 01-Mar-00

Client:

PNM - Public Service Company of NM

Work Order:

0002039

Lab ID:

0002039-05A

Matrix: AQUEOUS

Project: Dogie East Client Sample Info: Dogie East

Client Sample ID: 0002151253; MW-6

**Collection Date:** 2/15/2000 12:53:00 PM

COC Record: 7875

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM
Benzene	9.9	0.5	µg/L	1	2/28/2000
Toluene	0.6	0.5	μg/L	1	2/28/2000
Ethylbenzene	5.7	0.5	μg/L	1	2/28/2000
m,p-Xylene	21	1	μg/L	1	2/28/2000
o-Xylene	1.7	0.5	μg/L	1	2/28/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 01-Mar-00

Client:

PNM - Public Service Company of NM

Work Order:

0002039

Lab ID: Project: 0002039-06A

Matrix: AQUEOUS

Dogie East

Client Sample Info: Dogie East

**Client Sample ID:** 0002151313; MW-7

Collection Date: 2/15/2000 1:13:00 PM

COC Record: 7875

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM	
Benzene	64	0.5	μg/L	1	2/28/2000	
Toluene	18	0.5	μg/L	1	2/28/2000	
Ethylbenzene	10	0.5	µg/L	1	2/28/2000	
m,p-Xylene	22	1	μg/L	1	2/28/2000	
o-Xylene	2.4	0.5	μg/L	1	2/28/2000	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 01-Mar-00

Client:

**Project:** 

PNM - Public Service Company of NM

Work Order:

0002039

Lab ID:

0002039-07A

Dogie East

39-07A **Mat**ı

Matrix: AQUEOUS

Matrix: AQU

Client Sample Info: Dogie East

Client Sample ID: 0002151345; MW-8

Collection Date: 2/15/2000 1:45:00 PM

COC Record: 7875

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	sv	V8021B		•	Analyst: DC	
Benzene	0.6	0.5	μg/L	1	2/23/2000	
Toluene	1.4	0.5	μg/L	1	2/23/2000	
Ethylbenzene	0.6	0.5	μg/L	1	2/23/2000	
m,p-Xylene	ND	1	μg/L	1	2/23/2000	
o-Xylene	ND	0.5	μg/L	1	2/23/2000	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



ANALYTICAL REPORT

OFF: (505) 325-5667 FAX: (505) 327-1496

Date: 22-May-00

LAB: (505) 325-1556

FAX: (505) 327-1496

Client:

Project:

PNM - Public Service Company of NM

Work Order:

0005022

Lab ID:

0005022-01A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 0005101009; MW-2

Collection Date: 5/10/2000 10:09:00 AM

COC Record: 7890

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SI	V8021B		Analyst: DM	
Benzene	ND	0.5	μg/L	1	5/20/2000
Toluene	ND	0.5	μg/L	1	5/20/2000
Ethylbenzene	1	0.5	μg/L	1	5/20/2000
m,p-Xylene	ND	1	μg/L	1	5/20/2000
o-Xylene	ND	0.5	μg/L	1	5/20/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I



### ANALYTICAL REPORT

Date: 22-May-00

LAB: (505) 325-1556

FAX: (505) 327-1496

Client:

PNM - Public Service Company of NM

Work Order:

0005022

Lab ID: Project: 0005022-02A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 0005101023; MW-3

Collection Date: 5/10/2000 10:23:00 AM

COC Record: 7890

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM	
Benzene	140	5	μg/L	10	5/12/2000	
Toluene	1500	5	μg/L	10	5/12/2000	
Ethylbenzene	370	5	μg/L	10	5/12/2000	
m,p-Xylene	3100	10	μg/L	10	5/12/2000	
o-Xylene	550	5	μg/L	10	5/12/2000	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

L of L



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

### ANALYTICAL REPORT

Date: 22-May-00

Client:

PNM - Public Service Company of NM

Work Order:

0005022

Lab ID: Project: 0005022-03A

Matrix: AQUEOUS

Dogie East

Client Sample Info: Dogie East

Client Sample ID: 0005101034; MW-4

Collection Date: 5/10/2000 10:34:00 AM

COC Record: 7890

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SI	V8021B			Analyst: DM	
Benzene	4300	25	μg/L	50	5/20/2000	
Toluene	2300	10	μg/L	20	5/12/2000	
Ethylbenzene	130	10	μg/L	20	5/12/2000	
m,p-Xylene	1100	20	μg/L	20	5/12/2000	
o-Xylene	170	10	μg/L	20	5/12/2000	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



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

Date: 22-May-00

### ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

0005022

Lab ID: Project:

0005022-04A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 0005101045; MW-5

Collection Date: 5/10/2000 10:45:00 AM

COC Record: 7890

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SW8021B			Analyst: <b>DM</b>	
Benzene	5.8	5	μg/L	10	5/12/2000
Toluene	1400	5	μg/L	10	5/12/2000
Ethylbenzene	220	5	μg/L	10	5/12/2000
m,p-Xylene	1600	10	μg/L	10	5/12/2000
o-Xylene	260	5	μg/L	10	5/12/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate



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

### ANALYTICAL REPORT

Date: 22-May-00

Client:

Project:

PNM - Public Service Company of NM

Work Order:

0005022

Lab ID:

0005022-05A Dogie East

Matrix: AQUEOUS

Client Sample Info: Dogie East

Client Sample ID: 0005101058; MW-6

Collection Date: 5/10/2000 10:58:00 AM

COC Record: 7890

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM	
Benzene	390	2.5	μg/L	5	5/12/2000	
Toluene	2.6	2.5	μg/L	5	5/12/2000	
Ethylbenzene	25	2.5	μg/L	5	5/12/2000	
m,p-Xylene	390	5	μg/L	5	5/12/2000	
o-Xylene	10	2.5	μg/L	5	5/12/2000	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

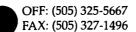
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate





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

Date: 22-May-00

### ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

0005022

Lab ID:

0005022-06A

Matrix: AQUEOUS

Project: D

Dogie East

Client Sample Info: Dogie East

Client Sample ID: 0005101115; MW-7

Collection Date: 5/10/2000 11:15:00 AM

COC Record: 7890

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	sv	V8021B			Analyst: DM	
Benzene	95	0.5	μg/L	1	5/20/2000	
Toluene	26	0.5	μg/L	1	5/20/2000	
Ethylbenzene	12	0.5	µg/L	1	5/20/2000	
m,p-Xylene	46	1	μg/L	1	5/20/2000	
o-Xylene	4.4	0.5	μg/L	1	5/20/2000	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

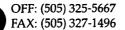
S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

I of I





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

### ANALYTICAL REPORT

Date: 22-May-00

Client:

PNM - Public Service Company of NM

Work Order:

0005022

Lab ID:

Project:

0005022-07A

Matrix: AQUEOUS

Dogie East

Client Sample Info: Dogie East

Client Sample ID: 0005101135; MW-8

Collection Date: 5/10/2000 11:35:00 AM

COC Record: 7890

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
AROMATIC VOLATILES BY GC/PID	SW8021B				Analyst: DM	
Benzene	ND	0.5	μg/L	1	5/12/2000	
Toluene	0.6	0.5	μg/L	1	5/12/2000	
Ethylbenzene	ND	0.5	μg/L	1	5/12/2000	
m,p-Xylene	ND	1	μg/L	1	5/12/2000	
o-Xylene	0.8	0.5	μg/L	1	5/12/2000	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1