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REPORTS

DATE: このこ



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 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.





MR. WILLIAM OLSON SEPTEMBER 18, 2000 PAGE 2 OF 3

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.





MR. WILLIAM OLSON SEPTEMBER 18, 2000 PAGE 3 OF 3

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,

MAB.Z

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

fames . Struke

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

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		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		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	М	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	К	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

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



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ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

Annual Groundwater Report 2000

San Juan Basin, New Mexico Inined Surface Impoundments Site Summary Report

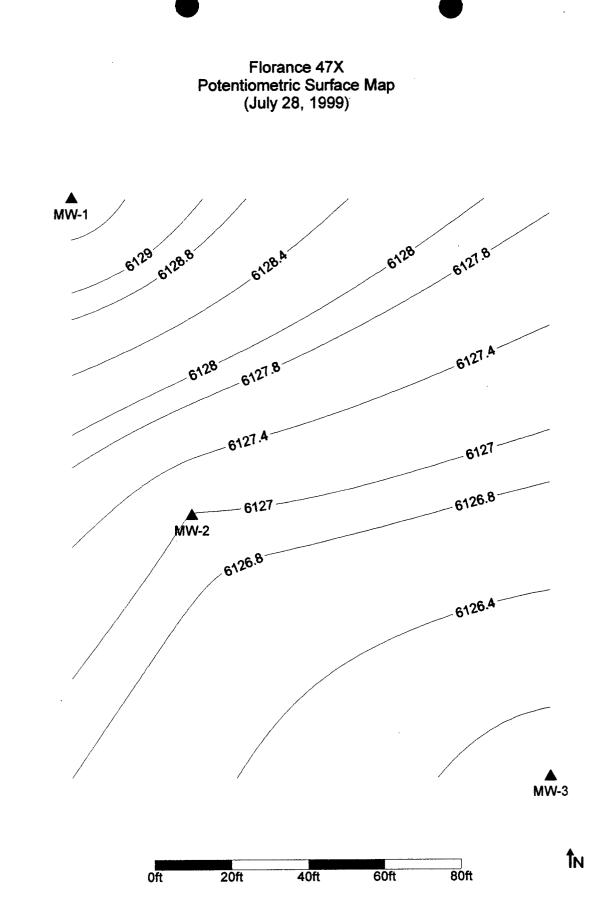
Site Name: Florance 47X

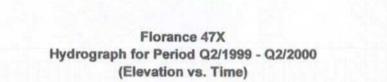
Reporting Period: 2nd Qtr 1999 - 2nd Qtr 2000

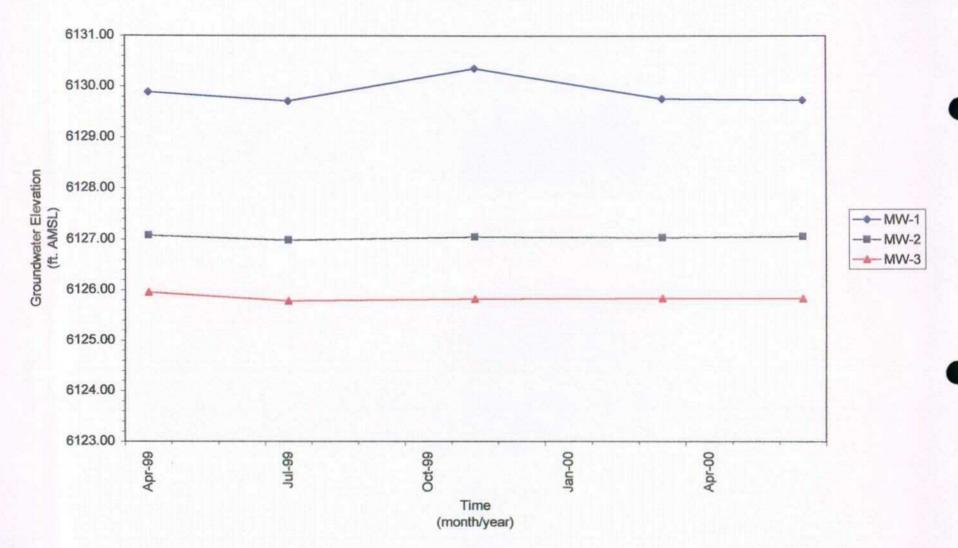
Location: Unit G, Sec 5, Twn 30N, Rng 8W Canyon: Crow Operator: Amoco Vulnerable Class: original OCD Ranking: 10 Lead Agency: NMOCD

Status Narrative

This site has five monitoring wells, with thirteen quarters of ground water monitoring completed to date. Two of these monitoring wells (MW-2 and -3) have contained free-phase hydrocarbon at various times. Monitoring well MW-1, upgradient of PNM's former dehydrator pit and downgradient of Amoco's equipment, confirms the presence of upgradient contamination. This source is most likely related to activities associated with Amoco's separator pit/equipment. Recent activities at this site include the installation of two additional monitoring wells. These include: well MW-4 located up-and cross-gradient of PNM's former dehydrator pit; and well MW-5 located downgradient of monitor well MW-3.









Florance 47X Summary of Groundwater Analytical Data (Q2/1999 - Q2/2000)

			Free	Product	Ana	lytes (va	lues in u	g/L)
Well ID	Sample ID	Sample Date	Present Yes/No	Thickness (ft.)	benzene	toluene	ethylbenzene	totai xylenes
	9904211026	21-Apr-99	N		40	15	6.4	10.4
	9907280715	28-Jul-99	N		34	7.8	3	2.9
MW-1	9911030906	3-Nov-99	N		2.9	<0.5	<0.5	<1.5
	0003230817	23-Mar-00	N		10	1.1	<0.5	<1.5
	0006140949	14-Jun-00	N		4.1	1.4	0.6	<1.5
	9904211120	21-Apr-99	N		14000	20000	850	8500
	9907280753	28-Jul-99	N		11000	15000	740	6800
MW-2	9911031032	3-Nov-99	N		11000	14000	770	8100
	0003230903	23-Mar-00	N		12000	15000	810	8200
	0006141042	14-Jun-00	N		6400	7000	570	5800
	NS	21-Apr-99	Y	0.97	<u> </u>			
	NS	28-Jul-99	Y	1.15				
MW-3	NS	3-Nov-99	Y	1.12				
	NS	23-Mar-00	Y	1.12				
	NS	14-Jun-00	Y	1.11				
MW-4	0006141106	14-Jun-00	N		28	42	7	135
MW-5	0006141137	14-Jun-00	N		1100	710	100	1100

NS = well not sampled for specified analytes



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-99

Client: Work Order:	9904052	ervice Company of NI Matrix: AQUEO		Client S	ample ID:	Florance 47X 9904211026; MW 1 4/21/99 10:26:00 AM		
Lab ID: Project:	9904052-01A Florance 47X	Manna: AQUEU	03		C Record		10.20.00 AM	
Parameter		Result	PQL	Qu2l Uni	ts	DF	Date Analyzed	

AROMATIC VOLATILES BY GC/PID	SM	V8021B			Analyst: H
Benzene	40	0.5	µg/L	1	4/23/99
Toluene	15	0.5	µg/L	1	4/23/99
Ethylbenzene	6.4	0.5	µg/L	1	4/23/99
m,p-Xylene	8.8	1	µg/L	1	4/23/99
o-Xylene	1.6	0.5	µg/L	1	4/23/99



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

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1 of 1



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-99

Parameter		Result	PQL	Qual	Units	DF	Date Analyzed	
Project:	Florance 47X				COC Reco	ord: 7042		
Lab ID:	Matrix: AQUEC	Matrix: AQUEOUS			ate: 4/21/99	: 4/21/99 11:20:00 AM		
Client: Work Order:	9904052	rvice Company of N	1111		-	Info: Florance 47X e ID: 9904211120; MW 2		

SV	V8021B			Analys	t: HR
14000	62	µg/L	125	4/23/99	
20000	62	µg/L	125	4/23/99	
850	62	μg/L	125	4/23/99	
6800	. 120	µg/L	125	4/23/99	
1700	62	µg/L	125	4/23/99	•
	14000 20000 850 6800	20000 62 850 62 6800 120	14000 62 μg/L 20000 62 μg/L 850 62 μg/L 6800 120 μg/L	14000 62 μg/L 125 20000 62 μg/L 125 850 62 μg/L 125 6800 120 μg/L 125	14000 62 μg/L 125 4/23/99 20000 62 μg/L 125 4/23/99 850 62 μg/L 125 4/23/99 6800 120 μg/L 125 4/23/99



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Surr: - Surrogate

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 27-Aug-99

Client: Work Order:		vice Company of N	M	-	le Info: Florance	Florance 47X 9907280715; MW-1		
work Order: Lab ID:	9907062 9907062-01A	Matrix: AQUEO	QUEOUS Collection Date:			: 07/28/1999 7:15:00 AM		
Project:	Florance 47X			COC F	Record: 7496			
Parameter		Result	PQL	Qual Units	DF	Date Analyzed		
	ATILES BY GC/PID	SW	/8021B		•	Analyst: DC		
Benzene	·	34	0.5	µa/L	·, 1	08/03/1999		

ANOMIATIC VOLATIL		31	00210		••		Analysi.	
Benzene	·.	34	0.5	µg/L	·,	1	08/03/1999	
Toluene	.*	7.8	0.5	µg/L		1	08/03/1999	
Ethylbenzene	• •	3	0.5	µg/L		1	08/03/1999	
m,p-Xylene	Ŧ	2.2	1	µg/L		1	08/03/1999	
o-Xylene	1	0.7	0.5	µg/L		1	08/03/1999	



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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 27-Aug-99

Client:	PNM - Public Ser	rvice Company of NM	Client Sample Inf	fo: Florance	Florance 47X		
Work Order:	9907062		Client Sample I	D: 9907280	753; MW-2		
Lab ID:	9907062-02A	Matrix: AQUEOUS	Collection Da	te: 07/28/19	999 7:53:00 AM		
Project:	Florance 47X		COC Recor	r d: 7496			

AROMATIC VOLATILES BY GC/PID	SM	/8021B			Analyst: DC
Benzene	11000	50	µg/L	100	08/03/1999
Toluene	15000	50	μg/L	100	08/03/1999
Ethylbenzene	740	50	µg/L	100	08/03/1999
m,p-Xylene	5400	100	µg/L	100	08/03/1999
o-Xylene	1400	50	µg/L	100	08/03/1999

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Nov-99

Client:	PNM - Public Se	ervice Company of NM	Client Sample Info:	Florance 47X
Work Order:	9911014		Client Sample ID:	9911030906; MW-1
Lab ID:	9911014-01A	Matrix: AQUEOUS	Collection Date:	11/3/99 9:06:00 AM
Project:	Florance 47X		COC Record:	7791

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	SV	V8021B		· ·	Analyst: DM
Benzene	2.9	0.5	μg/L	. 1	11/8/99
Toluene	ND	0.5	µg/L	. 1	11/8/99
Ethylbenzene	ND	0.5	μg/L	1	11/8/99
m,p-Xylene	ND	1	µg/L	1	11/8/99
o-Xylene	ND	0.5	µg/L	1	11/8/99



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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Nov-99

Client:	PNM - Public Se	ervice Company of NM	Client Sample Info:	Florance 47X
Work Order:	9911014		Client Sample ID:	9911031032; MW-2
Lab ID:	9911014-02A	Matrix: AQUEOUS	Collection Date:	11/3/99 10:32:00 AM
Project:	Florance 47X		COC Record:	7791

Parameter	Result	PQL	Qual U	Inits	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	sv	V8021B			•	Analyst: DM
Benzene	11000	50	ŀ	µg/L	100	11/8/99
Toluene	14000	50	ŀ	µg/L	100	11/8/99
Ethylbenzene	770	50	· •	µg/L	100	11/8/9 9
m,p-Xylene	6500	100	1	µg/L	100	11/8/99
o-Xylene	1600	50	- 1	µg/L	100	11/8/99



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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 27-Mar-00

Client: Work Order: Lab ID: Project:	PNM - Public Se 0003034 0003034-01A Florance 47X		ce Company of NM Matrix: AQUEOUS			e ID: (Date: 3	: Florance 47X : 0003230817; MW-1 : 3/23/2000 8:17:00 AM : 8506		
Parameter		Result	PQL	Qual U	nits		DF	Date Analyzed	
AROMATIC VOL	ATILES BY GC/PI	D	SW8021B					Analyst: DM	
Benzene		10	0.5		µg/L		1	3/24/2000	
Toluene		1.1	0.5		µg/L		1	3/24/2000	
Ethylbenzene		ND	0.5		µg/L		1	3/24/2000	
m,p-Xylene		ND	[`] 1		µg/Ľ		1	3/24/2000	
o-Xylene		ND	0.5	1	µg/L	•	1	3/24/2000	

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m,p-Xylene

o-Xylene



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 27-Mar-00

3/24/2000

3/24/2000

100

100

Client: Work Order:	PNM - Public Ser 0003034	vice Company of					Florance 47X 0003230903; MW-2		
Lab ID:	0003034-02A	Matrix: AQU	Matrix: AQUEOUS		-		3/23/2000 9:03:00 AM		
Project:	Florance 47X				COC Reco	ord: 8506			
Parameter		Result	PQL	Qual	Units	DF	Date Analyzed		
	LATILES BY GC/PIE)	SW8021B			,	Analyst: DN		
Benzene		12000	50		µg/L	100	3/24/2000		
Toluene		15000	50		µg/L	100	3/24/2000		

100

50

µg/L

µg/L

6500

1700

Qualifiers:

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Surr: - Surrogate

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



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

ANALYTICAL REPORT

Date: 27-Jun-00

Client: Work Order: Lab ID: Project:	PNM - Public Se 0006035 0006035-01A Florance 47X		ce Company of NM Matrix: AQUEOUS			ID: 000614	 Florance 47X 0006140949; MW-1 6/14/2000 9:49:00 AM 7895 		
Parameter		Result	PQL	Qual U	nits	DF	Date Analyzed		
AROMATIC VOI	LATILES BY GC/P	D	SW8021B				Analyst: DC		
Benzene		4.1	0.5	1	ug/L	1	6/24/2000		
Toluene		1.4	0.5	1	Jg/L	1	6/24/2000		
Ethylbenzene		0.6	0.5	I	ıg/L	1	6/24/2000		
m,p-Xylene		ND	1	1	ıg/L	1	6/24/2000		
o-Xylene		ND	0.5	I	ıg/L	. 1	6/24/2000		



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

ANALYTICAL REPORT

Date: 27-Jun-00

Lab ID: Project:	0006035-02A Florance 47X	Matrix: AQUEO	US	Co	•	ate: 6/14/200	 b: Florance 47X b: 0006141042; MW-2 c: 6/14/2000 10:42:00 AM d: 7895 		
Parameter		Result	PQL	Qual	Units	DF	Date Analyzed		

AROMATIC VOLATILES BY GC/PID	SV SV	V8021B			Analyst	DC
Benzene	6400	50	µg/L	100	6/24/2000	
Toluene	7000	50	µg/L	100	6/24/2000	
Ethylbenzene	570	50	μg/L	100	6/24/2000	
m,p-Xylene	4600	100	µg/Ł	100	6/24/2000	
o-Xylene	1200	50	µg/L	100	6/24/2000	

Qualifiers:

OFF: (505) 325-5667

FAX: (505) 327-1496

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



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

ANALYTICAL REPORT

Date: 27-Jun-00

Client: Work Order: Lab ID:	PNM - Public Ser 0006035 0006035-03A	vice Company o Matrix: AQU	Client Sample ID:AQUEOUSCollection Date:			ID: 00 ate: 6/	Florance 47X 0006141106; MW-4 6/14/2000 11:06:00 AM			
Project:	Florance 47X		C	OC Rec	ord: 78	395				
Parameter	······	Result	PQL	Qual U	nits		DF	Date Analyzed		
	LATILES BY GC/PI	D	SW8021B					Analyst: DC		
Benzene		28	0.5	1	ug/L		1	6/24/2000		
Toluene		42	0.5	1	ug/L		1	6/24/2000		
Ethylbenzene		7	0.5		ug/L		1	6/24/2000		
m,p-Xylene		120	1	1	ug/L		1	6/24/2000		
o-Xylene		15	0.5	1	Jg/L		1	6/24/2000		



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

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- R RPD outside accepted recovery limits
- E Value above quantitation range
- Surr: Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blending Industry with the Environment -



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

ANALYTICAL REPORT

Date: 27-Jun-00

Client: Work Order: Lab ID: Project:	PNM - Public Se 0006035 0006035-04A Florance 47X	ervice Company of l Matrix: AQUE		-			: 0006141137; MW-5 : 6/14/2000 11:37:00 AM		
Parameter		Result	PQL	Qual L	Jnits		DF	Date Analyzed	
AROMATIC VOI	LATILES BY GC/P	D S	W8021B					Analyst: DC	
Benzene		1100	5		µg/L		10	6/24/2000	
Toiuene		710	5		µg/L		10	6/24/2000	
Ethylbenzene		100	5		µg/L		10	6/24/2000	
m,p-Xylene		940	10		µg/L		10	6/24/2000	
o-Xylene		160	5		µg/L		10	6/24/2000	

Qualifiers:

OFF: (505) 325-5667

FAX: (505) 327-1496

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

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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